



**PICK & CARRY CRANE**  
**MAC 25-3**

**DATASHEET - METRIC**

# MAC 25-3



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**FRANNA**

A.C.N. 010 671 048

**CRANES** PTY  
LTD

MOBILE CRANE MANUFACTURERS

**LOAD CHART MXC1090-**  
**MODEL: MAC 25 FULL POWER BOOM****SPECIFICATIONS :**

APPLICABLE STANDARDS : AS 1418.1, AS1418.5

CRANE CLASSIFICATION : C3

DETACHABLE COUNTERWEIGHT : 1500 KG

- TO BE FRONT MOUNTED FOR ROAD TRAVEL
- FRANNA PART NO. PLMXF2009B

**CONDITIONS :**FRONT SPRING LOCKOUTS TO BE ENGAGED FOR ALL  
LIFTING AND PICK AND CARRY OPERATIONS**WINCH ROPE :**

DIAMETER : 14mm

CONST : COMPAK 35W x 7 NR 2070 MPa

MIN. BREAKING FORCE 165 kN

MACHINE SPLICE &amp; THIMBLE EYE

ONE END ONLY, LENGTH 110m

**RETRACT ROPE :**

DIAMETER : 11mm

CONST : 6 x 25 WRC G2070

MIN. BREAKING FORCE 82.4 kN

**EXTENSION CHAIN :**

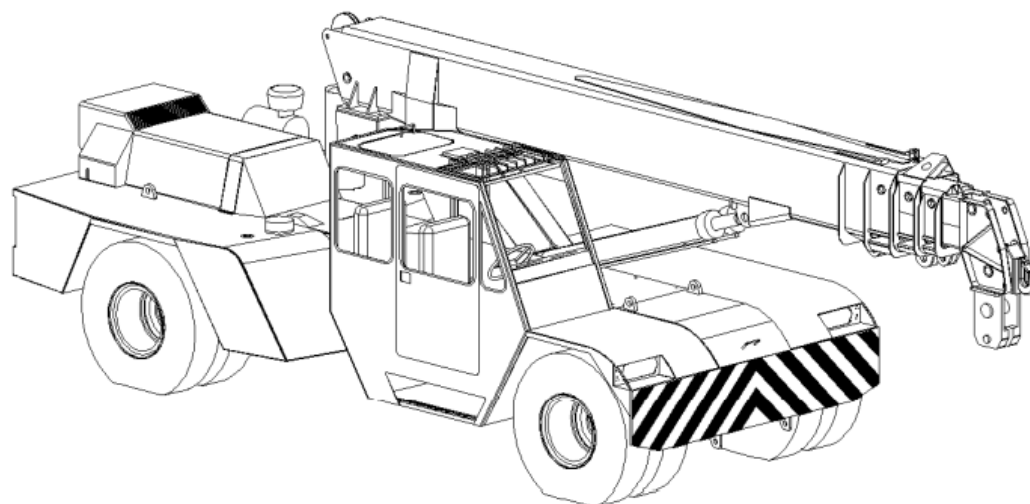
TYPE : BL1066 LEAF CHAIN

MIN. BREAKING FORCE 43 200 KGF

**TYRES :**

FRONT : 1400 - 20 20 PLY INFLATED TO 120 PSI

REAR : 1400 - 20 20 PLY INFLATED TO 90 PSI



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### LOAD CHART MXC1090- MODEL: MAC 25 FULL POWER BOOM

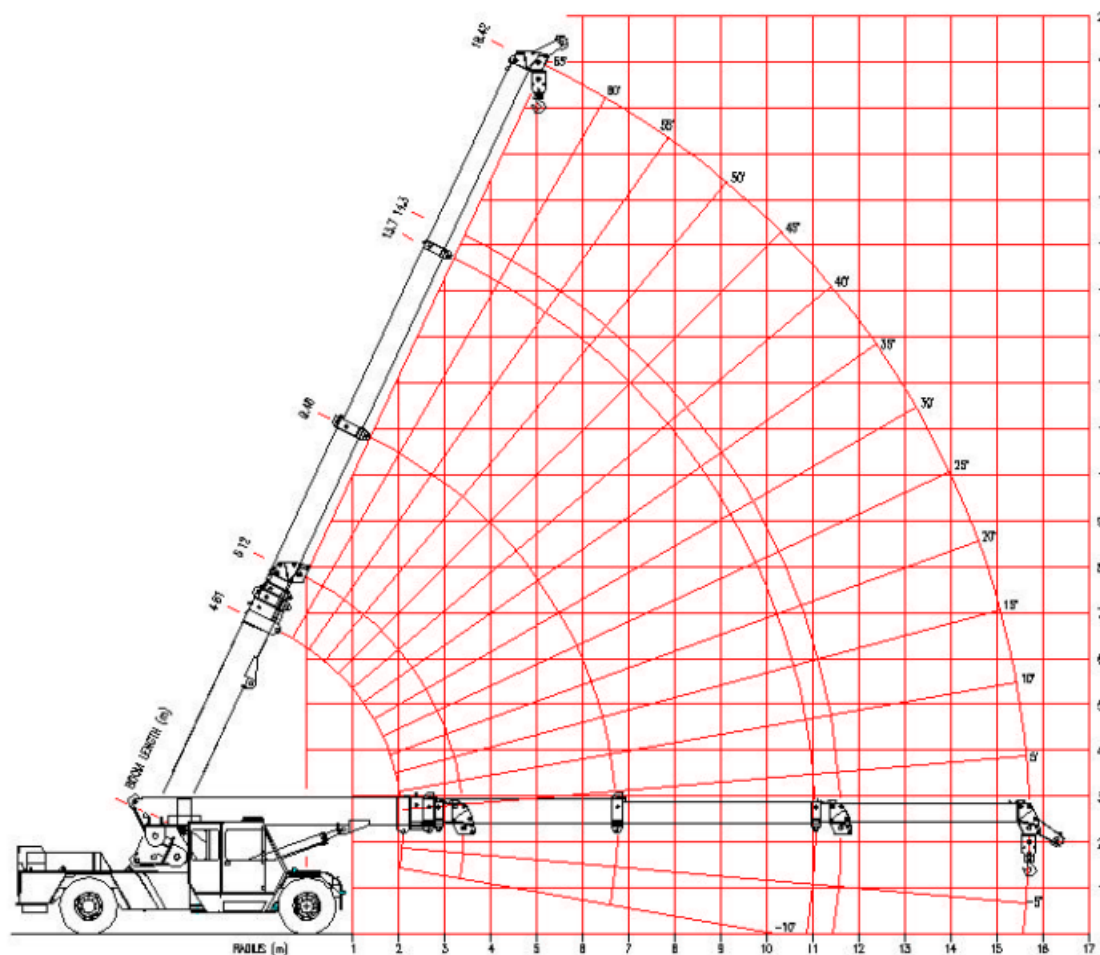
#### LIST OF DUTIES :

##### COUNTERWEIGHT ON FRONT

- 01 FALL BLOCK
- 02 RHINO HOOK
- 03 OFFSET HEAD – BOTTOM POSITION
- 04 OFFSET HEAD – TOP POSITION
- 05 FLYJIB – BOTTOM POSITION
- 06 FLYJIB – TOP POSITION
- 07 MAN BASKET
- 08 BUTT LUG
- 09 LUG 1 – BOOM 1
- 10 LUG 2 – BOOM 2

##### COUNTERWEIGHT ON REAR

- 11 FALL BLOCK
- 12 RHINO HOOK
- 13 OFFSET HEAD – BOTTOM POSITION
- 14 OFFSET HEAD – TOP POSITION
- 15 FLYJIB – BOTTOM POSITION
- 16 FLYJIB – TOP POSITION
- 17 MAN BASKET
- 18 BUTT LUG
- 19 LUG 1 – BOOM 1
- 20 LUG 2 – BOOM 2



| EQUIPMENT  | WEIGHT (KG) |
|------------|-------------|
| FALL BLOCK | 180         |
| 25 t HOOK  | 20          |
| 6.3 t HOOK | 10          |
| PEAR BLOCK | 30          |
| RHINO HOOK | 25          |

## MAC-25 FALL BLOCK LOAD CHART - 10 DEG. ART.

COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).

BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

ROBWAY DUTY **01**

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO HEAD SHEAVES - THIRD BOOM RETRACTED<br>(metres) |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |        |              |           |        |        |       |
|------------------------|---------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------------|-----------|--------|--------|-------|
|                        | 6.12                                                          | 6.50  | 7.00                                                                                                        | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50  | 13.00                            | 13.50  | 14.32  | 14.50  | 15.00  | 15.50  | 16.00  | 16.50        | 17.00     | 17.50  | 18.00  | 18.42 |
| 1.4                    | 23900                                                         | 23850 | 23750                                                                                                       | 23800 | 23800 | 23750 | 23750 | 23750 |       |       |       |       |       |        |                                  |        |        |        |        |        |        |              |           |        |        |       |
|                        | 48                                                            | 51    | 54                                                                                                          | 57    | 59    | 61    | 63    | 65    |       |       |       |       |       |        |                                  |        |        |        |        |        |        |              |           |        |        |       |
| 2.0                    | 19950                                                         | 19900 | 19850                                                                                                       | 19800 | 19750 | 19750 | 19700 | 19650 | 19650 | 19600 | 19300 |       |       |        |                                  |        |        |        |        |        |        | WINCH S.W.L. |           |        |        |       |
|                        | 40                                                            | 44    | 48                                                                                                          | 51    | 54    | 57    | 59    | 61    | 62    | 64    | 65    |       |       |        |                                  |        |        |        |        |        |        | SINGLE PART  |           | 4200   |        |       |
| 2.5                    | 15700                                                         | 15650 | 15600                                                                                                       | 15600 | 15550 | 15500 | 15500 | 15450 | 15450 | 15400 | 15400 | 15350 | 14600 |        |                                  |        |        |        |        |        |        | TWO PARTS    |           | 8400   |        |       |
|                        | 32                                                            | 37    | 42                                                                                                          | 46    | 50    | 52    | 55    | 57    | 59    | 61    | 62    | 63    | 65    |        |                                  |        |        |        |        |        |        | FOUR PARTS   |           | 16800  |        |       |
| 3.0                    | 12800                                                         | 12800 | 12800                                                                                                       | 12750 | 12700 | 12700 | 12650 | 12650 | 12600 | 12600 | 12600 | 12550 | 12550 | 12500  | 12250                            |        |        |        |        |        |        |              | SIX PARTS |        | 25000  |       |
|                        | 21                                                            | 29    | 35                                                                                                          | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 61    | 62    | 63     | 64                               | 65     |        |        |        |        |        |              |           |        |        |       |
| 3.5                    | 11050                                                         | 10750 | 10750                                                                                                       | 10750 | 10700 | 10700 | 10650 | 10650 | 10600 | 10600 | 10600 | 10550 | 10550 | 10550  | 10500                            | 10500  | 10500  |        |        |        |        |              |           |        |        |       |
|                        | (3.4)                                                         | 17    | 28                                                                                                          | 34    | 39    | 43    | 47    | 49    | 52    | 54    | 56    | 58    | 59    | 61     | 62                               | 63     | 65     | 65     |        |        |        |              |           |        |        |       |
| 4.0                    |                                                               | 9750  | 9200                                                                                                        | 9200  | 9200  | 9150  | 9150  | 9150  | 9100  | 9100  | 9100  | 9050  | 9050  | 9050   | 9050                             | 9000   | 9000   | 9000   | 9050   | 9100   |        |              |           |        |        |       |
|                        |                                                               | (3.8) | 17                                                                                                          | 27    | 33    | 38    | 42    | 45    | 48    | 51    | 53    | 55    | 56    | 58     | 59                               | 61     | 62     | 63     | 64     | 65     |        |              |           |        |        |       |
| 5.0                    |                                                               |       | 8450                                                                                                        | 7400  | 7050  | 7050  | 7050  | 7000  | 7000  | 7000  | 6950  | 6950  | 6950  | 6950   | 6900                             | 6900   | 6900   | 6900   | 6950   | 7000   | 7050   | 7100         | 7100      | 7150   | 7200   |       |
|                        |                                                               |       | (4.3)                                                                                                       | (4.8) | 16    | 25    | 31    | 36    | 40    | 43    | 46    | 48    | 50    | 52     | 54                               | 56     | 58     | 58     | 59     | 61     | 62     | 63           | 63        | 64     | 65     |       |
| 6.0                    |                                                               |       |                                                                                                             |       | 6550  | 5850  | 5600  | 5600  | 5600  | 5600  | 5550  | 5550  | 5550  | 5550   | 5500                             | 5500   | 5500   | 5500   | 5550   | 5600   | 5650   | 5700         | 5700      | 5750   | 5750   | 5800  |
|                        |                                                               |       |                                                                                                             |       | (5.3) | (5.8) | 15    | 24    | 30    | 34    | 38    | 41    | 44    | 46     | 48                               | 50     | 53     | 53     | 55     | 56     | 57     | 58           | 60        | 61     | 61     | 62    |
| 7.0                    |                                                               |       |                                                                                                             |       |       |       | 5250  | 4750  | 4550  | 4550  | 4550  | 4550  | 4550  | 4550   | 4500                             | 4500   | 4500   | 4500   | 4550   | 4600   | 4650   | 4650         | 4700      | 4750   | 4750   | 4800  |
|                        |                                                               |       |                                                                                                             |       |       |       | (6.3) | (6.8) | 14    | 23    | 28    | 33    | 36    | 39     | 42                               | 44     | 48     | 48     | 50     | 52     | 53     | 54           | 56        | 57     | 58     | 59    |
| 8.0                    |                                                               |       |                                                                                                             |       |       |       |       | 4300  | 3900  | 3800  | 3800  | 3800  | 3800  | 3750   | 3750                             | 3750   | 3750   | 3800   | 3850   | 3900   | 3900   | 3950         | 4000      | 4000   | 4050   |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       | (7.3) | (7.8) | 14    | 22    | 27    | 31    | 35     | 38                               | 42     | 43     | 45     | 47     | 48     | 50     | 51           | 53        | 54     | 55     |       |
| 9.0                    |                                                               |       |                                                                                                             |       |       |       |       |       | 3600  | 3300  | 3200  | 3200  | 3200  | 3200   | 3200                             | 3150   | 3200   | 3250   | 3250   | 3300   | 3350   | 3350         | 3400      | 3400   | 3450   |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 26     | 30                               | 35     | 36     | 39     | 41     | 43     | 45     | 47           | 48        | 50     | 51     |       |
| 10                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       | 3000  | 2800  | 2700   | 2700                             | 2700   | 2700   | 2750   | 2800   | 2850   | 2850   | 2900         | 2900      | 2950   | 2950   |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       | (9.3) | (9.8)  | 12                               | 20     | 28     | 29     | 32     | 35     | 38     | 40           | 42        | 44     | 45     | 47    |
| 11                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        | 2550                             | 2350   | 2300   | 2350   | 2350   | 2400   | 2450   | 2450         | 2500      | 2550   | 2550   | 2600  |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8)                           | 17     | 19     | 24     | 28     | 31     | 34     | 37           | 39        | 41     | 42     |       |
| 12                     |                                                               |       | NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER<br>LOAD HANDLING DEVICES SHALL BE ADDED<br>TO THE WEIGHT OF THE LOAD |       |       |       |       |       |       |       |       |       |       |        |                                  | 2100   | 2050   | 2050   | 2100   | 2100   | 2150   | 2200         | 2200      | 2250   | 2250   |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  | (11.6) | (11.8) | 12     | 19     | 23     | 27     | 30           | 33        | 36     | 37     |       |
| 13                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |        |        | 1950   | 1850   | 1850   | 1850   | 1900         | 1950      | 1950   | 2000   |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |        |        | (12.3) | (12.8) | 11     | 18     | 23           | 27        | 30     | 32     |       |
| 14                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |        |        |        |        | 1750   | 1650   | 1650         | 1700      | 1700   | 1750   |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |        |        |        |        | (13.3) | (13.8) | 11           | 18        | 22     | 25     |       |
| 15                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |        |        |        |        |        |        | 1600         | 1500      | 1500   | 1550   |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |        |        |        |        |        |        | (14.3)       | (14.8)    | 11     | 16     |       |
| 15.71                  |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |        |        |        |        |        |        |              |           | 1450   | 1400   |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |        |        |        |        |        |        |              |           | (15.3) | (15.7) |       |



## MAC-25 FALL BLOCK LOAD CHART - 40 DEG. ART. COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).  
**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)  
**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

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CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

ROBWAY DUTY **01**

| Radius<br>in<br>Metres | BOOM PIVOT TO HEAD SHEAVES - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |       | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |       |        |        |        |        |        |        |  |  |
|------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--|--|
|                        | 6.12                                                          | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00                            | 13.50  | 14.32  | 14.50  | 15.00  | 15.50 | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.42  |  |  |
| 1.4                    | 23750                                                         | 22450 | 20950 | 19200 | 17750 | 16600 | 15600 | 14750 |       |       |       |       |       |       |                                  |        |        |        |        |       |        |        |        |        |        |        |  |  |
|                        | 48                                                            | 51    | 54    | 57    | 59    | 61    | 63    | 65    |       |       |       |       |       |       |                                  |        |        |        |        |       |        |        |        |        |        |        |  |  |
| 2.0                    | 17850                                                         | 17850 | 17800 | 16850 | 15950 | 15150 | 14500 | 13750 | 13000 | 12350 | 11750 |       |       |       |                                  |        |        |        |        |       |        |        |        |        |        |        |  |  |
|                        | 40                                                            | 44    | 48    | 51    | 54    | 57    | 59    | 61    | 62    | 64    | 65    |       |       |       |                                  |        |        |        |        |       |        |        |        |        |        |        |  |  |
| 2.5                    | 14000                                                         | 14000 | 13950 | 13900 | 13400 | 12800 | 12300 | 11800 | 11400 | 10950 | 10500 | 10050 |       |       |                                  |        |        |        |        |       |        |        |        |        |        |        |  |  |
|                        | 32                                                            | 37    | 42    | 46    | 50    | 52    | 55    | 57    | 59    | 61    | 62    | 63    | 65    |       |                                  |        |        |        |        |       |        |        |        |        |        |        |  |  |
| 3.0                    | 11450                                                         | 11400 | 11400 | 11350 | 11350 | 11300 | 11300 | 10950 | 10550 | 10150 | 9800  | 9500  | 9200  | 8950  | 8600                             | 8300   |        |        |        |       |        |        |        |        |        |        |  |  |
|                        | 21                                                            | 29    | 35    | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 61    | 62    | 63    | 64                               | 65     |        |        |        |       |        |        |        |        |        |        |  |  |
| 3.5                    | 9800                                                          | 9550  | 9550  | 9550  | 9500  | 9500  | 9450  | 9450  | 9450  | 9150  | 8850  | 8550  | 8300  | 8050  | 7850                             | 7650   | 7300   | 7250   |        |       |        |        |        |        |        |        |  |  |
|                        | (3.4)                                                         | 17    | 28    | 34    | 39    | 43    | 47    | 49    | 52    | 54    | 56    | 58    | 59    | 61    | 62                               | 63     | 65     | 65     |        |       |        |        |        |        |        |        |  |  |
| 4.0                    |                                                               | 8650  | 8150  | 8150  | 8150  | 8100  | 8100  | 8050  | 8050  | 8000  | 7750  | 7550  | 7350  | 7150  | 6950                             | 6650   | 6650   | 6500   | 6400   |       |        |        |        |        |        |        |  |  |
|                        |                                                               | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    | 48    | 51    | 53    | 55    | 56    | 58    | 59                               | 61     | 62     | 63     | 64     | 65    |        |        |        |        |        |        |  |  |
| 5.0                    |                                                               |       | 7450  | 6500  | 6200  | 6200  | 6200  | 6200  | 6150  | 6150  | 6150  | 6150  | 6100  | 6100  | 6000                             | 5800   | 5600   | 5550   | 5500   | 5400  | 5350   | 5300   | 5200   | 5150   | 5100   |        |  |  |
|                        |                                                               |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    | 40    | 43    | 46    | 48    | 50    | 52    | 54                               | 56     | 58     | 58     | 59     | 61    | 62     | 63     | 63     | 64     | 65     |        |  |  |
| 6.0                    |                                                               |       |       |       | 5750  | 5100  | 4900  | 4900  | 4900  | 4850  | 4850  | 4850  | 4850  | 4850  | 4850                             | 4750   | 4750   | 4700   | 4650   | 4600  | 4550   | 4500   | 4450   | 4400   | 4350   |        |  |  |
|                        |                                                               |       |       |       | (5.3) | (5.8) | 15    | 24    | 30    | 34    | 38    | 41    | 44    | 46    | 48                               | 50     | 53     | 53     | 55     | 56    | 57     | 58     | 60     | 61     | 61     | 62     |  |  |
| 7.0                    |                                                               |       |       |       |       |       | 4600  | 4100  | 3950  | 3950  | 3950  | 3950  | 3950  | 3950  | 3950                             | 3950   | 3900   | 3950   | 3950   | 4000  | 4000   | 3950   | 3900   | 3850   | 3850   | 3800   |  |  |
|                        |                                                               |       |       |       |       |       | (6.3) | (6.8) | 14    | 23    | 28    | 33    | 36    | 39    | 42                               | 44     | 48     | 48     | 50     | 52    | 53     | 54     | 56     | 57     | 58     | 59     |  |  |
| 8.0                    |                                                               |       |       |       |       |       |       |       | 3700  | 3400  | 3250  | 3250  | 3250  | 3250  | 3250                             | 3250   | 3250   | 3300   | 3350   | 3350  | 3400   | 3450   | 3400   | 3350   | 3350   |        |  |  |
|                        |                                                               |       |       |       |       |       |       |       | (7.3) | (7.8) | 14    | 22    | 27    | 31    | 35                               | 38     | 42     | 43     | 45     | 47    | 48     | 50     | 51     | 53     | 54     | 55     |  |  |
| 9.0                    |                                                               |       |       |       |       |       |       |       |       |       | 3100  | 2800  | 2700  | 2700  | 2700                             | 2700   | 2700   | 2750   | 2800   | 2850  | 2850   | 2900   | 2950   | 2950   | 2950   |        |  |  |
|                        |                                                               |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 26                               | 30     | 35     | 36     | 39     | 41    | 43     | 45     | 47     | 48     | 50     | 51     |  |  |
| 10                     |                                                               |       |       |       |       |       |       |       |       |       |       |       | 2550  | 2350  | 2300                             | 2300   | 2300   | 2350   | 2400   | 2400  | 2450   | 2450   | 2500   | 2550   | 2550   |        |  |  |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12                               | 20     | 28     | 29     | 32     | 35    | 38     | 40     | 42     | 44     | 45     | 47     |  |  |
| 11                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       | 2150                             | 2000   | 1950   | 1950   | 2000   | 2050  | 2050   | 2100   | 2100   | 2150   | 2200   | 2200   |  |  |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3)                           | (10.8) | 17     | 19     | 24     | 28    | 31     | 34     | 37     | 39     | 41     | 42     |  |  |
| 12                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        | 1750   | 1700   | 1700   | 1750  | 1750   | 1800   | 1850   | 1850   | 1900   | 1900   |  |  |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  | (11.6) | (11.8) | 12     | 19     | 23    | 27     | 30     | 33     | 36     | 37     |        |  |  |
| 13                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        |        | 1600   | 1500   | 1500  | 1550   | 1600   | 1600   | 1650   | 1650   |        |  |  |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        |        | (12.3) | (12.8) | 11    | 18     | 23     | 27     | 30     | 32     |        |  |  |
| 14                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        |        |        |        |       | 1450   | 1350   | 1350   | 1400   | 1400   | 1450   |  |  |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        |        |        |        |       | (13.3) | (13.8) | 11     | 18     | 22     | 25     |  |  |
| 15                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        |        |        |        |       |        |        | 1300   | 1250   | 1250   | 1250   |  |  |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        |        |        |        |       |        |        | (14.3) | (14.8) | 11     | 16     |  |  |
| 15.71                  |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        |        |        |        |       |        |        |        |        | 1150   | 1100   |  |  |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |                                  |        |        |        |        |       |        |        |        |        | (15.3) | (15.7) |  |  |

## MAC-25 RHINO HOOK LOAD CHART - 10 DEG

COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER  
SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).

BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

ROBWAY DUTY **02**

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO HOOK CENTRE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |        |        |       | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |        |        |        |        |       |
|------------------------|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|                        | 6.45                                                         | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50  | 13.00  | 13.50 | 14.00                            | 14.65  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.50  | 18.75 |
| 1.4                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |       |
|                        | 52                                                           | 55    | 58    | 60    | 62    | 64    | 65    |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |       |
| 2.0                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |       |
|                        | 44                                                           | 49    | 52    | 55    | 57    | 59    | 61    | 63    | 64    | 65    |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |       |
| 2.5                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 14200 |        |        |       |                                  |        |        |        |        |        |        |        |        |        |       |
|                        | 37                                                           | 43    | 47    | 50    | 53    | 56    | 58    | 59    | 61    | 63    | 64    | 65    |        |        |       |                                  |        |        |        |        |        |        |        |        |        |       |
| 3.0                    | 13000                                                        | 12950 | 12900 | 12850 | 12800 | 12800 | 12750 | 12750 | 12700 | 12700 | 12700 | 12650 | 12300  |        |       |                                  |        |        |        |        |        |        |        |        |        |       |
|                        | 29                                                           | 36    | 41    | 45    | 49    | 52    | 54    | 56    | 58    | 60    | 61    | 62    | 64     | 65     |       |                                  |        |        |        |        |        |        |        |        |        |       |
| 3.5                    | 10900                                                        | 10900 | 10900 | 10850 | 10800 | 10800 | 10750 | 10750 | 10700 | 10700 | 10700 | 10650 | 10650  | 10650  | 10600 | 10600                            |        |        |        |        |        |        |        |        |        |       |
|                        | 17                                                           | 29    | 35    | 40    | 44    | 47    | 50    | 52    | 55    | 56    | 58    | 60    | 61     | 62     | 63    | 64                               |        |        |        |        |        |        |        |        |        |       |
| 4.0                    | 10050                                                        | 9350  | 9350  | 9300  | 9300  | 9250  | 9250  | 9250  | 9200  | 9150  | 9150  | 9150  | 9150   | 9100   | 9100  | 9100                             | 9100   | 9100   | 9150   |        |        |        |        |        |        |       |
|                        | (3.7)                                                        | 18    | 28    | 34    | 39    | 43    | 46    | 49    | 51    | 53    | 55    | 57    | 58     | 60     | 61    | 62                               | 63     | 64     | 65     |        |        |        |        |        |        |       |
| 5.0                    |                                                              | 8550  | 7500  | 7150  | 7150  | 7150  | 7100  | 7100  | 7100  | 7050  | 7050  | 7050  | 7000   | 7000   | 7000  | 7000                             | 7000   | 7000   | 7050   | 7100   | 7100   | 7150   | 7200   | 7200   |        |       |
|                        |                                                              | (4.3) | (4.8) |       | 17    | 26    | 32    | 37    | 40    | 44    | 46    | 49    | 51     | 53     | 54    | 56                               | 57     | 59     | 60     | 61     | 62     | 63     | 64     | 65     | 65     |       |
| 6.0                    |                                                              |       |       | 6650  | 5900  | 5700  | 5700  | 5650  | 5650  | 5650  | 5600  | 5600  | 5600   | 5600   | 5550  | 5550                             | 5600   | 5650   | 5650   | 5700   | 5750   | 5800   | 5850   | 5850   |        |       |
|                        |                                                              |       |       | (5.3) | (5.8) | 16    | 24    | 30    | 35    | 38    | 42    | 44    | 47     | 49     | 51    | 52                               | 54     | 55     | 57     | 58     | 59     | 60     | 61     | 62     | 63     | 63    |
| 7.0                    |                                                              |       |       |       |       | 5300  | 4800  | 4650  | 4650  | 4600  | 4600  | 4600  | 4600   | 4600   | 4550  | 4550                             | 4600   | 4650   | 4650   | 4700   | 4750   | 4750   | 4800   | 4800   | 4800   |       |
|                        |                                                              |       |       |       |       | (6.3) | (6.8) | 15    | 23    | 29    | 33    | 37    | 40     | 42     | 45    | 47                               | 49     | 50     | 52     | 53     | 55     | 56     | 57     | 58     | 59     | 60    |
| 8.0                    |                                                              |       |       |       |       |       |       | 4350  | 3950  | 3850  | 3850  | 3850  | 3850   | 3850   | 3800  | 3800                             | 3800   | 3850   | 3850   | 3900   | 3950   | 3950   | 4000   | 4000   | 4050   | 4050  |
|                        |                                                              |       |       |       |       |       |       | (7.3) | (7.8) | 14    | 22    | 28    | 32     | 35     | 38    | 41                               | 44     | 45     | 47     | 49     | 50     | 52     | 53     | 54     | 55     | 56    |
| 9.0                    |                                                              |       |       |       |       |       |       |       |       | 3650  | 3350  | 3250  | 3250   | 3250   | 3200  | 3200                             | 3200   | 3250   | 3300   | 3300   | 3350   | 3350   | 3400   | 3450   | 3450   | 3450  |
|                        |                                                              |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21     | 27     | 31    | 34                               | 38     | 39     | 42     | 44     | 46     | 47     | 49     | 50     | 51     | 52    |
| 10                     |                                                              |       |       |       |       |       |       |       |       |       | 3050  | 2800  | 2750   | 2750   | 2750  | 2750                             | 2750   | 2750   | 2800   | 2850   | 2850   | 2900   | 2950   | 2950   | 3000   | 3000  |
|                        |                                                              |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 13     | 20     | 26    | 31                               | 33     | 36     | 38     | 40     | 42     | 44     | 46     | 47     | 48     |       |
| 11                     |                                                              |       |       |       |       |       |       |       |       |       |       |       | 2600   | 2400   | 2350  | 2350                             | 2400   | 2400   | 2450   | 2500   | 2500   | 2550   | 2550   | 2600   | 2600   |       |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 12    | 21                               | 25     | 29     | 32     | 35     | 37     | 39     | 41     | 43     | 44     |       |
| 12                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       | 2250                             | 2000   | 2050   | 2100   | 2100   | 2150   | 2200   | 2200   | 2250   | 2250   |       |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       | (11.3)                           | (11.9) | 12     | 19     | 24     | 28     | 31     | 34     | 36     | 39     |       |
| 13                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        | 1950   | 1850   | 1850   | 1900   | 1950   | 1950   | 2000   | 2000   |       |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        | (12.3) | (12.8) | 12     | 18     | 23     | 27     | 30     | 33     | 34    |
| 14                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        | 1750   | 1650   | 1650   | 1700   | 1700   | 1750   | 1750  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        | (13.3) | (13.8) | 11     | 18     | 23     | 26     | 28    |
| 15                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        | 1600   | 1500   | 1500   | 1550   | 1550  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        | (14.3) | (14.8) | 11     | 17     | 20    |
| 16                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        | 1450   | 1400   | 1350  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        | (15.3) | (15.8) | (16.) |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 RHINO HOOK LOAD CHART - 40 DEG

COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**15000** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).  
**15000** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

ROBWAY DUTY **02**

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO HOOK CENTRE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |       |        |        |       |
|------------------------|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|-------|
|                        | 6.45                                                         | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.65                            | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50 | 18.00  | 18.50  | 18.75 |
| 1.4                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 15000 | 14850 |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |        |       |        |        |       |
|                        | 52                                                           | 55    | 58    | 60    | 62    | 64    | 65    |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |        |       |        |        |       |
| 2.0                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 14650 | 13850 | 13100 | 12400 | 11850 |       |       |       |        |        |        |                                  |        |        |        |        |        |       |        |        |       |
|                        | 44                                                           | 49    | 52    | 55    | 57    | 59    | 61    | 63    | 64    | 65    |       |       |       |        |        |        |                                  |        |        |        |        |        |       |        |        |       |
| 2.5                    | 14200                                                        | 14150 | 14100 | 14050 | 13550 | 12950 | 12400 | 11950 | 11500 | 11050 | 10550 | 10100 |       |        |        |        |                                  |        |        |        |        |        |       |        |        |       |
|                        | 37                                                           | 43    | 47    | 50    | 53    | 56    | 58    | 59    | 61    | 63    | 64    | 65    |       |        |        |        |                                  |        |        |        |        |        |       |        |        |       |
| 3.0                    | 11600                                                        | 11550 | 11550 | 11500 | 11450 | 11100 | 10650 | 10250 | 9900  | 9600  | 9300  | 9050  | 8700  |        |        |        |                                  |        |        |        |        |        |       |        |        |       |
|                        | 29                                                           | 36    | 41    | 45    | 49    | 52    | 54    | 56    | 58    | 60    | 61    | 62    | 64    | 65     |        |        |                                  |        |        |        |        |        |       |        |        |       |
| 3.5                    | 9750                                                         | 9700  | 9700  | 9650  | 9650  | 9600  | 9600  | 9550  | 9250  | 8950  | 8650  | 8400  | 8150  | 7950   | 7700   | 7500   |                                  |        |        |        |        |        |       |        |        |       |
|                        | 17                                                           | 29    | 35    | 40    | 44    | 47    | 50    | 52    | 55    | 56    | 58    | 60    | 61    | 62     | 63     | 64     |                                  |        |        |        |        |        |       |        |        |       |
| 4.0                    | 8950                                                         | 8300  | 8300  | 8300  | 8250  | 8250  | 8200  | 8200  | 8150  | 8100  | 7850  | 7650  | 7400  | 7200   | 7000   | 6850   | 6650                             | 6550   | 6450   |        |        |        |       |        |        |       |
|                        | (3.7)                                                        | 18    | 28    | 34    | 39    | 43    | 46    | 49    | 51    | 53    | 55    | 57    | 58    | 60     | 61     | 62     | 63                               | 64     | 65     |        |        |        |       |        |        |       |
| 5.0                    |                                                              | 7600  | 6650  | 6300  | 6300  | 6300  | 6300  | 6250  | 6250  | 6250  | 6200  | 6200  | 6200  | 6050   | 5900   | 5750   | 5550                             | 5500   | 5450   | 5350   | 5300   | 5250   | 5150  | 5100   |        |       |
|                        |                                                              | (4.3) | (4.8) | 17    | 26    | 32    | 37    | 40    | 44    | 46    | 49    | 51    | 53    | 54     | 56     | 57     | 59                               | 60     | 61     | 62     | 63     | 64     | 65    | 65     |        |       |
| 6.0                    |                                                              |       |       | 5850  | 5200  | 5000  | 5000  | 5000  | 4950  | 4950  | 4950  | 4900  | 4900  | 4900   | 4900   | 4750   | 4700                             | 4650   | 4600   | 4550   | 4500   | 4450   | 4400  | 4350   | 4350   |       |
|                        |                                                              |       |       | (5.3) | (5.8) | 16    | 24    | 30    | 35    | 38    | 42    | 44    | 47    | 49     | 51     | 52     | 54                               | 55     | 57     | 58     | 59     | 60     | 61    | 62     | 63     | 63    |
| 7.0                    |                                                              |       |       |       |       | 4650  | 4200  | 4050  | 4050  | 4050  | 4000  | 4000  | 4000  | 4000   | 4000   | 3950   | 4000                             | 4050   | 4000   | 3950   | 3900   | 3900   | 3850  | 3800   | 3800   |       |
|                        |                                                              |       |       |       |       | (6.3) | (6.8) | 15    | 23    | 29    | 33    | 37    | 40    | 42     | 45     | 47     | 49                               | 50     | 52     | 53     | 55     | 56     | 57    | 58     | 59     | 60    |
| 8.0                    |                                                              |       |       |       |       |       |       | 3800  | 3450  | 3350  | 3350  | 3300  | 3300  | 3300   | 3300   | 3300   | 3300                             | 3350   | 3400   | 3400   | 3450   | 3400   | 3400  | 3400   | 3350   | 3350  |
|                        |                                                              |       |       |       |       |       |       | (7.3) | (7.8) | 14    | 22    | 28    | 32    | 35     | 38     | 41     | 44                               | 45     | 47     | 49     | 50     | 52     | 53    | 54     | 55     | 56    |
| 9.0                    |                                                              |       |       |       |       |       |       |       |       | 3150  | 2850  | 2750  | 2750  | 2750   | 2750   | 2750   | 2800                             | 2800   | 2850   | 2900   | 2900   | 2950   | 2950  | 3000   | 2950   |       |
|                        |                                                              |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 27     | 31     | 34     | 38                               | 39     | 42     | 44     | 46     | 47     | 49    | 50     | 51     | 52    |
| 10                     |                                                              |       |       |       |       |       |       |       |       |       |       | 2600  | 2400  | 2350   | 2350   | 2350   | 2300                             | 2350   | 2400   | 2400   | 2450   | 2500   | 2500  | 2550   | 2550   | 2550  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 13     | 20     | 26     | 31                               | 33     | 36     | 38     | 40     | 42     | 44    | 46     | 47     | 48    |
| 11                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       | 2200   | 2000   | 1950   | 1950                             | 2000   | 2050   | 2050   | 2100   | 2150   | 2150  | 2200   | 2200   | 2200  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 12     | 21                               | 25     | 29     | 32     | 35     | 37     | 39    | 41     | 43     | 44    |
| 12                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 1850   | 1650                             | 1700   | 1750   | 1750   | 1800   | 1850   | 1850  | 1900   | 1900   | 1950  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.3) | (11.9)                           | 12     | 19     | 24     | 28     | 31     | 34    | 36     | 38     | 39    |
| 13                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        | 1600                             | 1500   | 1500   | 1550   | 1600   | 1600   | 1650  | 1650   | 1700   | 1700  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        | (12.3)                           | (12.8) | 12     | 18     | 23     | 27     | 30    | 33     | 34     |       |
| 14                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        | 1450   | 1350   | 1350   | 1400   | 1400  | 1450   | 1450   |       |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        | (13.3) | (13.8) | 11     | 18     | 23    | 26     | 28     |       |
| 15                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        | 1300   | 1250   | 1250  | 1250   | 1250   |       |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        | (14.3) | (14.8) | 11    | 17     | 20     |       |
| 16                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |        |       | 1150   | 1100   | 1100  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |        |       | (15.3) | (15.8) | (16.) |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 OFFSET HEAD BOTTOM POSITION LOAD CHART - 10 DEG

ROBWAY DUTY **03**

### COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).  
**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |              |        |        |        |        |      |
|------------------------|-----------------------------------------------------------------|-------|------|-------------------------------------------------------------------------------------------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|----------------------------------|--------|--------|--------|--------------|--------|--------|--------|--------|------|
|                        | 6.86                                                            | 7.00  | 7.50 | 8.00                                                                                                        | 8.50  | 9.00  | 9.50 | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00 | 14.50  | 15.06                            | 15.50  | 16.00  | 16.50  | 17.00        | 17.50  | 18.00  | 18.50  | 19.16  |      |
| 1.4                    | 8400                                                            | 8400  | 8400 | 8400                                                                                                        | 8400  | 8400  |      |       |       |       |       |       |       |        |        |       |        |                                  |        |        |        |              |        |        |        |        |      |
|                        | 55                                                              | 56    | 59   | 61                                                                                                          | 63    | 65    |      |       |       |       |       |       |       |        |        |       |        |                                  |        |        |        |              |        |        |        |        |      |
| 2.0                    | 8400                                                            | 8400  | 8400 | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  |       |       |       |       |        |        |       |        |                                  |        |        |        | WINCH S.W.L. |        |        |        |        |      |
|                        | 49                                                              | 50    | 53   | 56                                                                                                          | 58    | 60    | 62   | 64    | 65    |       |       |       |       |        |        |       |        |                                  |        |        |        | SINGLE PART  |        |        | 4200   |        |      |
| 2.5                    | 8400                                                            | 8400  | 8400 | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  |       |       |        |        |       |        |                                  |        |        |        | TWO PARTS    |        |        | 8400   |        |      |
|                        | 43                                                              | 44    | 48   | 51                                                                                                          | 54    | 56    | 58   | 60    | 62    | 63    | 65    |       |       |        |        |       |        |                                  |        |        |        |              |        |        |        |        |      |
| 3.0                    | 8400                                                            | 8400  | 8400 | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   |        |       |        |                                  |        |        |        |              |        |        |        |        |      |
|                        | 36                                                              | 38    | 43   | 46                                                                                                          | 50    | 52    | 55   | 57    | 59    | 60    | 62    | 63    | 64    | 65     |        |       |        |                                  |        |        |        |              |        |        |        |        |      |
| 3.5                    | 8400                                                            | 8400  | 8400 | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400  |        |                                  |        |        |        |              |        |        |        |        |      |
|                        | 27                                                              | 30    | 36   | 41                                                                                                          | 45    | 48    | 51   | 53    | 55    | 57    | 59    | 60    | 62    | 63     | 64     | 65    |        |                                  |        |        |        |              |        |        |        |        |      |
| 4.0                    | 8400                                                            | 8400  | 8400 | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400  | 8400   | 8400                             |        |        |        |              |        |        |        |        |      |
|                        | (4.2)                                                           | 19    | 29   | 35                                                                                                          | 40    | 44    | 47   | 50    | 52    | 54    | 56    | 58    | 59    | 60     | 62     | 63    | 64     | 65                               |        |        |        |              |        |        |        |        |      |
| 5.0                    | 8400                                                            | 7650  | 7300 | 7300                                                                                                        | 7250  | 7250  | 7200 | 7200  | 7200  | 7150  | 7150  | 7150  | 7100  | 7100   | 7100   | 7100  | 7050   | 7100                             | 7150   | 7200   | 7200   | 7250         |        |        |        |        |      |
|                        | (4.3)                                                           | (4.8) | 18   | 27                                                                                                          | 33    | 38    | 41   | 44    | 47    | 49    | 52    | 53    | 55    | 57     | 58     | 59    | 61     | 61                               | 62     | 63     | 64     | 65           |        |        |        |        |      |
| 6.0                    |                                                                 |       |      | 6750                                                                                                        | 6050  | 5800  | 5800 | 5800  | 5750  | 5750  | 5750  | 5700  | 5700  | 5700   | 5700   | 5650  | 5650   | 5650                             | 5700   | 5700   | 5750   | 5800         | 5800   | 5850   | 5850   | 5850   |      |
|                        |                                                                 |       |      | (5.3)                                                                                                       | (5.8) | 16    | 25   | 31    | 36    | 39    | 42    | 45    | 47    | 49     | 51     | 53    | 54     | 56                               | 57     | 58     | 59     | 60           | 61     | 62     | 63     | 64     |      |
| 7.0                    |                                                                 |       |      |                                                                                                             | 5400  | 4900  | 4750 | 4750  | 4700  | 4700  | 4700  | 4700  | 4650  | 4650   | 4650   | 4650  | 4650   | 4650                             | 4700   | 4750   | 4750   | 4800         | 4800   | 4850   | 4900   | 4900   |      |
|                        |                                                                 |       |      |                                                                                                             | (6.3) | (6.8) | 16   | 24    | 30    | 34    | 37    | 40    | 43    | 45     | 47     | 49    | 51     | 52                               | 54     | 55     | 56     | 57           | 59     | 59     | 61     |        |      |
| 8.0                    |                                                                 |       |      |                                                                                                             |       |       |      | 4450  | 4050  | 3950  | 3950  | 3950  | 3900  | 3900   | 3900   | 3900  | 3850   | 3900                             | 3950   | 3950   | 4000   | 4050         | 4050   | 4100   | 4100   | 4100   |      |
|                        |                                                                 |       |      |                                                                                                             |       |       |      | (7.3) | (7.8) | 15    | 23    | 28    | 33    | 36     | 39     | 41    | 44     | 46                               | 48     | 49     | 51     | 52           | 53     | 55     | 56     | 57     |      |
| 9.0                    |                                                                 |       |      |                                                                                                             |       |       |      |       |       | 3700  | 3400  | 3300  | 3300  | 3300   | 3300   | 3300  | 3300   | 3300                             | 3350   | 3400   | 3400   | 3450         | 3450   | 3500   | 3500   | 3500   |      |
|                        |                                                                 |       |      |                                                                                                             |       |       |      |       |       | (8.3) | (8.8) | 14    | 22    | 27     | 31     | 35    | 37     | 40                               | 42     | 44     | 46     | 48           | 49     | 51     | 52     | 53     |      |
| 10                     |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       | 3150  | 2900  | 2800   | 2800   | 2800  | 2800   | 2800                             | 2850   | 2850   | 2900   | 2950         | 2950   | 3000   | 3000   | 3050   |      |
|                        |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       | (9.3) | (9.8) | 14     | 21     | 26    | 30     | 34                               | 36     | 39     | 41     | 43           | 45     | 46     | 48     | 50     |      |
| 11                     |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       | 2650   | 2450   | 2400  | 2400   | 2400                             | 2450   | 2450   | 2500   | 2550         | 2550   | 2600   | 2600   | 2650   |      |
|                        |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       | (10.3) | (10.8) | 13    | 20     | 26                               | 29     | 32     | 35     | 37           | 40     | 42     | 43     | 45     |      |
| 12                     |                                                                 |       |      | NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER<br>LOAD HANDLING DEVICES SHALL BE ADDED<br>TO THE WEIGHT OF THE LOAD |       |       |      |       |       |       |       |       |       |        |        | 2300  | 2100   | 2050                             | 2100   | 2150   | 2200   | 2200         | 2250   | 2250   | 2300   | 2300   |      |
|                        |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       | (11.3) | (11.8)                           | 14     | 20     | 24     | 28           | 31     | 34     | 36     | 39     | 41   |
| 13                     |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        |                                  | 1950   | 1850   | 1850   | 1900         | 1900   | 1950   | 2000   | 2000   | 2050 |
|                        |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        |                                  | (12.4) | (12.8) | 12     | 19           | 24     | 27     | 30     | 33     | 36   |
| 14                     |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        |                                  |        |        | 1750   | 1700         | 1700   | 1700   | 1750   | 1750   | 1800 |
|                        |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        |                                  |        |        | (13.3) | (13.8)       | 12     | 18     | 23     | 27     | 30   |
| 15                     |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        |                                  |        |        |        | 1600         | 1500   | 1500   | 1550   | 1600   |      |
|                        |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        |                                  |        |        |        | (14.3)       | (14.8) | 12     | 18     | 24     |      |
| 16.4                   |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        |                                  |        |        |        |              |        | 1450   | 1400   | 1300   |      |
|                        |                                                                 |       |      |                                                                                                             |       |       |      |       |       |       |       |       |       |        |        |       |        |                                  |        |        |        |              |        | (15.3) | (15.8) | (16.4) |      |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD



## MAC-25 OFFSET HEAD BOTTOM POSITION LOAD CHART - 40 DEG

ROBWAY DUTY **03**

### COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).  
**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        |        | THIRD BOOM EXTENDING<br>(metres) |       |        |        |        |        |        |        |        |
|------------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|----------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
|                        | 6.86                                                            | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50  | 13.00  | 13.50 | 14.00  | 14.50  | 15.06                            | 15.50 | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.50  | 19.16  |
| 1.4                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |       |       |       |        |        |       |        |        |                                  |       |        |        |        |        |        |        |        |
|                        | 55                                                              | 56    | 59    | 61    | 63    | 65    |       |       |       |       |       |       |        |        |       |        |        |                                  |       |        |        |        |        |        |        |        |
| 2.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |        |        |       |        |        |                                  |       |        |        |        |        |        |        |        |
|                        | 49                                                              | 50    | 53    | 56    | 58    | 60    | 62    | 64    | 65    |       |       |       |        |        |       |        |        |                                  |       |        |        |        |        |        |        |        |
| 2.5                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |        |        |       |        |        |                                  |       |        |        |        |        |        |        |        |
|                        | 43                                                              | 44    | 48    | 51    | 54    | 56    | 58    | 60    | 62    | 63    | 65    |       |        |        |       |        |        |                                  |       |        |        |        |        |        |        |        |
| 3.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   |       |        |        |                                  |       |        |        |        |        |        |        |        |
|                        | 36                                                              | 38    | 43    | 46    | 50    | 52    | 55    | 57    | 59    | 60    | 62    | 63    | 64     | 65     |       |        |        |                                  |       |        |        |        |        |        |        |        |
| 3.5                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8250   | 8050   | 7850  | 7600   |        |                                  |       |        |        |        |        |        |        |        |
|                        | 27                                                              | 30    | 36    | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 60    | 62     | 63     | 64    | 65     |        |                                  |       |        |        |        |        |        |        |        |
| 4.0                    | 8050                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8350  | 8350  | 8300  | 8250  | 8000  | 7750  | 7500   | 7300   | 7100  | 6950   | 6750   | 6600                             |       |        |        |        |        |        |        |        |
|                        | (4.2)                                                           | 19    | 29    | 35    | 40    | 44    | 47    | 50    | 52    | 54    | 56    | 58    | 59     | 60     | 62    | 63     | 64     | 65                               |       |        |        |        |        |        |        |        |
| 5.0                    |                                                                 | 7750  | 6750  | 6450  | 6450  | 6400  | 6400  | 6350  | 6350  | 6300  | 6300  | 6150  | 6000   | 5850   | 5700  | 5550   | 5500   | 5400                             | 5350  | 5250   | 5200   |        |        |        |        |        |
|                        |                                                                 | (4.3) | (4.8) | 18    | 27    | 33    | 38    | 41    | 44    | 47    | 49    | 52    | 53     | 55     | 57    | 58     | 59     | 61                               | 61    | 62     | 63     | 64     | 65     |        |        |        |
| 6.0                    |                                                                 |       |       | 5950  | 5300  | 5100  | 5100  | 5100  | 5050  | 5050  | 5050  | 5050  | 5000   | 5000   | 5000  | 5000   | 4850   | 4750                             | 4700  | 4650   | 4600   | 4550   | 4500   | 4450   | 4400   | 4300   |
|                        |                                                                 |       |       | (5.3) | (5.8) | 16    | 25    | 31    | 36    | 39    | 42    | 45    | 47     | 49     | 51    | 53     | 54     | 56                               | 57    | 58     | 59     | 60     | 61     | 62     | 63     | 64     |
| 7.0                    |                                                                 |       |       |       |       | 4750  | 4300  | 4150  | 4150  | 4150  | 4100  | 4100  | 4100   | 4050   | 4050  | 4050   | 4050   | 4050                             | 4050  | 4000   | 3950   | 3900   | 3850   | 3850   | 3800   | 3800   |
|                        |                                                                 |       |       |       |       | (6.3) | (6.8) | 16    | 24    | 30    | 34    | 37    | 40     | 43     | 45    | 47     | 49     | 51                               | 52    | 54     | 55     | 56     | 57     | 59     | 59     | 61     |
| 8.0                    |                                                                 |       |       |       |       |       |       | 3900  | 3500  | 3400  | 3400  | 3400  | 3400   | 3400   | 3350  | 3350   | 3350   | 3400                             | 3400  | 3450   | 3450   | 3450   | 3400   | 3400   | 3400   | 3350   |
|                        |                                                                 |       |       |       |       |       |       | (7.3) | (7.8) | 15    | 23    | 28    | 33     | 36     | 39    | 41     | 44     | 46                               | 48    | 49     | 51     | 52     | 53     | 55     | 56     | 57     |
| 9.0                    |                                                                 |       |       |       |       |       |       |       |       | 3200  | 2950  | 2850  | 2850   | 2850   | 2850  | 2800   | 2800   | 2850                             | 2900  | 2900   | 2950   | 2950   | 3000   | 3000   | 2950   |        |
|                        |                                                                 |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 14    | 22     | 27     | 31    | 35     | 37     | 40                               | 42    | 44     | 46     | 48     | 49     | 51     | 52     | 53     |
| 10                     |                                                                 |       |       |       |       |       |       |       |       |       | 2700  | 2450  | 2400   | 2400   | 2400  | 2400   | 2400   | 2450                             | 2500  | 2500   | 2550   | 2550   | 2600   | 2600   |        |        |
|                        |                                                                 |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 14     | 21     | 26    | 30     | 34     | 36                               | 39    | 41     | 43     | 45     | 46     | 48     | 50     |        |
| 11                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        | 2250   | 2100  | 2050   | 2050   | 2050                             | 2050  | 2100   | 2150   | 2150   | 2200   | 2200   | 2250   | 2250   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 13    | 20     | 26     | 29                               | 32    | 35     | 37     | 40     | 42     | 43     | 45     |        |
| 12                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       | 1900   | 1750   | 1700                             | 1750  | 1800   | 1850   | 1850   | 1900   | 1900   | 1950   | 1950   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       | (11.3) | (11.8) | 14                               | 20    | 24     | 28     | 31     | 34     | 36     | 39     | 41     |
| 13                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        | 1600   | 1550                             | 1550  | 1550   | 1600   | 1650   | 1650   | 1700   | 1700   |        |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        | (12.4) | (12.8)                           | 12    | 19     | 24     | 27     | 30     | 33     | 36     |        |
| 14                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        |        |                                  |       | 1450   | 1350   | 1400   | 1400   | 1450   | 1450   | 1500   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        |        |                                  |       | (13.3) | (13.8) | 12     | 18     | 23     | 27     | 30     |
| 15                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        |        |                                  |       |        |        | 1300   | 1250   | 1250   | 1250   | 1300   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        |        |                                  |       |        |        | (14.3) | (14.8) | 12     | 18     | 24     |
| 16.4                   |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        |        |                                  |       |        |        |        |        | 1200   | 1100   | 1050   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |        |        |       |        |        |                                  |       |        |        |        |        | (15.3) | (15.8) | (16.4) |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 OFFSET HEAD TOP POSITION LOAD CHART - 10 DEG

ROBWAY DUTY **04**

### COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER  
SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).

BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        | THIRD BOOM EXTENDING |        |        |        |              |        |        |        |       |  |
|------------------------|-----------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|----------------------|--------|--------|--------|--------------|--------|--------|--------|-------|--|
|                        | (metres)                                            |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        | (metres)             |        |        |        |              |        |        |        |       |  |
|                        | 6.82                                                | 7.00  | 7.50                                                                                                        | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00 | 14.50  | 15.02                | 15.50  | 16.00  | 16.50  | 17.00        | 17.50  | 18.00  | 18.50  | 19.12 |  |
| 1.4                    | 8400                                                | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400  | 8400  |       |       |       |       |       |       |        |        |       |        |                      |        |        |        |              |        |        |        |       |  |
|                        | 52                                                  | 53    | 56                                                                                                          | 58    | 60    | 62    | 64    |       |       |       |       |       |       |        |        |       |        |                      |        |        |        |              |        |        |        |       |  |
| 2.0                    | 8400                                                | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |        |        |       |        |                      |        |        |        | WINCH S.W.L. |        |        |        |       |  |
|                        | 45                                                  | 47    | 50                                                                                                          | 53    | 56    | 58    | 60    | 61    | 63    | 64    |       |       |       |        |        |       |        |                      |        |        |        | SINGLE PART  |        | 4200   |        |       |  |
| 2.5                    | 8400                                                | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |        |        |       |        |                      |        |        |        | TWO PARTS    |        | 8400   |        |       |  |
|                        | 39                                                  | 41    | 45                                                                                                          | 49    | 52    | 54    | 56    | 58    | 60    | 61    | 63    | 64    |       |        |        |       |        |                      |        |        |        |              |        |        |        |       |  |
| 3.0                    | 8400                                                | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   |        |       |        |                      |        |        |        |              |        |        |        |       |  |
|                        | 32                                                  | 34    | 40                                                                                                          | 44    | 47    | 50    | 53    | 55    | 57    | 58    | 60    | 61    | 63    | 64     | 65     |       |        |                      |        |        |        |              |        |        |        |       |  |
| 3.5                    | 8400                                                | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400  |        |                      |        |        |        |              |        |        |        |       |  |
|                        | 24                                                  | 27    | 33                                                                                                          | 38    | 42    | 46    | 49    | 51    | 53    | 55    | 57    | 59    | 60    | 61     | 62     | 63    | 64     |                      |        |        |        |              |        |        |        |       |  |
| 4.0                    | 8400                                                | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400  | 8400   | 8400                 | 8400   |        |        |              |        |        |        |       |  |
|                        | (4.1)                                               | 16    | 26                                                                                                          | 32    | 37    | 41    | 45    | 47    | 50    | 52    | 54    | 56    | 57    | 59     | 60     | 61    | 62     | 63                   | 64     |        |        |              |        |        |        |       |  |
| 5.0                    |                                                     | 8400  | 7600                                                                                                        | 7250  | 7200  | 7200  | 7150  | 7150  | 7150  | 7100  | 7100  | 7050  | 7050  | 7050   | 7000   | 7000  | 7000   | 6950                 | 7000   | 7050   | 7100   | 7100         | 7150   | 7200   |        |       |  |
|                        |                                                     | (4.3) | (4.8)                                                                                                       | 15    | 24    | 30    | 35    | 39    | 42    | 45    | 48    | 50    | 52    | 53     | 55     | 56    | 58     | 59                   | 60     | 61     | 62     | 63           | 64     | 65     |        |       |  |
| 6.0                    |                                                     |       |                                                                                                             | 6750  | 6000  | 5750  | 5750  | 5750  | 5700  | 5700  | 5650  | 5650  | 5650  | 5600   | 5600   | 5600  | 5550   | 5600                 | 5650   | 5700   | 5700   | 5750         | 5750   | 5800   | 5850   |       |  |
|                        |                                                     |       |                                                                                                             | (5.3) | (5.8) | 14    | 23    | 29    | 34    | 37    | 40    | 43    | 46    | 48     | 50     | 51    | 53     | 54                   | 56     | 57     | 58     | 59           | 60     | 61     | 62     |       |  |
| 7.0                    |                                                     |       |                                                                                                             |       |       | 5400  | 4900  | 4700  | 4700  | 4700  | 4650  | 4650  | 4650  | 4600   | 4600   | 4600  | 4550   | 4600                 | 4650   | 4700   | 4700   | 4750         | 4750   | 4800   | 4800   |       |  |
|                        |                                                     |       |                                                                                                             |       |       | (6.3) | (6.8) | 14    | 22    | 28    | 32    | 36    | 39    | 41     | 44     | 46    | 48     | 50                   | 51     | 53     | 54     | 55           | 56     | 57     | 58     |       |  |
| 8.0                    |                                                     |       |                                                                                                             |       |       |       |       | 4450  | 4050  | 3900  | 3900  | 3900  | 3900  | 3850   | 3850   | 3850  | 3800   | 3850                 | 3900   | 3900   | 3950   | 4000         | 4000   | 4050   | 4050   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       | (7.3) | (7.8) | 13    | 21    | 27    | 31    | 34     | 37     | 40    | 42     | 44                   | 46     | 48     | 49     | 51           | 52     | 53     | 55     |       |  |
| 9.0                    |                                                     |       |                                                                                                             |       |       |       |       |       |       | 3700  | 3400  | 3300  | 3300  | 3250   | 3250   | 3250  | 3250   | 3250                 | 3300   | 3350   | 3350   | 3400         | 3400   | 3450   | 3450   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       |       |       | (8.3) | (8.8) | 12    | 20    | 25     | 30     | 33    | 36     | 39                   | 41     | 43     | 45     | 46           | 48     | 49     | 51     |       |  |
| 10                     |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       | 3100  | 2900  | 2800   | 2800   | 2800  | 2750   | 2750                 | 2800   | 2850   | 2850   | 2900         | 2900   | 2950   | 2950   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 19     | 25    | 29     | 32                   | 35     | 37     | 40     | 42           | 43     | 45     | 47     |       |  |
| 11                     |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       | 2650   | 2450   | 2400  | 2400   | 2400                 | 2400   | 2450   | 2500   | 2500         | 2550   | 2550   | 2600   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 12    | 19     | 24                   | 28     | 31     | 34     | 36           | 38     | 40     | 42     |       |  |
| 12                     |                                                     |       | NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER<br>LOAD HANDLING DEVICES SHALL BE ADDED<br>TO THE WEIGHT OF THE LOAD |       |       |       |       |       |       |       |       |       |       |        |        |       | 2300   | 2100                 | 2050   | 2100   | 2100   | 2150         | 2200   | 2200   | 2250   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       | (11.3) | (11.8)               | 12     | 18     | 23     | 27           | 30     | 33     | 35     |       |  |
| 13                     |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        | 1950                 | 1850   | 1850   | 1900   | 1900         | 1950   | 1950   | 2000   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        | (12.3)               | (12.8) | 11     | 18     | 22           | 26     | 29     | 32     |       |  |
| 14                     |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        |                      |        | 1750   | 1650   | 1650         | 1700   | 1700   | 1750   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        |                      |        | (13.3) | (13.8) | 11           | 17     | 22     | 25     |       |  |
| 15                     |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        |                      |        |        |        | 1600         | 1500   | 1500   | 1550   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        |                      |        |        |        | (14.3)       | (14.8) | 10     | 17     |       |  |
| 16.45                  |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        |                      |        |        |        |              |        | 1450   | 1400   |       |  |
|                        |                                                     |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |        |       |        |                      |        |        |        |              |        | (15.3) | (15.8) |       |  |

## MAC-25 OFFSET HEAD TOP POSITION LOAD CHART - 40 DEG

ROBWAY DUTY **04**

### COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**NOTE:** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).  
BOOM ANGLE - UNDEFLECTED (REF.)

**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |        |        |        |
|------------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                        | 6.82                                                            | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.02                            | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.50  | 19.12  |
| 1.4                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |
|                        | 52                                                              | 53    | 56    | 58    | 60    | 62    | 64    |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |
| 2.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |
|                        | 45                                                              | 47    | 50    | 53    | 56    | 58    | 60    | 61    | 63    | 64    |       |       |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |
| 2.5                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |
|                        | 39                                                              | 41    | 45    | 49    | 52    | 54    | 56    | 58    | 60    | 61    | 63    | 64    |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |
| 3.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   |        |        |        |                                  |        |        |        |        |        |        |        |        |
|                        | 32                                                              | 34    | 40    | 44    | 47    | 50    | 53    | 55    | 57    | 58    | 60    | 61    | 63    | 64     | 65     |        |        |                                  |        |        |        |        |        |        |        |        |
| 3.5                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8200  | 7950   | 7750   | 7550   | 7300   |                                  |        |        |        |        |        |        |        |        |
|                        | 24                                                              | 27    | 33    | 38    | 42    | 46    | 49    | 51    | 53    | 55    | 57    | 59    | 60    | 61     | 62     | 63     | 64     |                                  |        |        |        |        |        |        |        |        |
| 4.0                    | 8150                                                            | 8400  | 8400  | 8350  | 8350  | 8300  | 8250  | 8250  | 8200  | 8150  | 7900  | 7650  | 7450  | 7250   | 7050   | 6850   | 6700   | 6550                             | 6450   |        |        |        |        |        |        |        |
|                        | (4.1)                                                           | 16    | 26    | 32    | 37    | 41    | 45    | 47    | 50    | 52    | 54    | 56    | 57    | 59     | 60     | 61     | 62     | 63                               | 64     |        |        |        |        |        |        |        |
| 5.0                    |                                                                 | 7750  | 6750  | 6400  | 6400  | 6350  | 6350  | 6300  | 6300  | 6250  | 6250  | 6200  | 6100  | 5900   | 5750   | 5650   | 5500   | 5400                             | 5350   | 5300   | 5200   | 5150   | 5100   |        |        |        |
|                        |                                                                 | (4.3) | (4.8) | 15    | 24    | 30    | 35    | 39    | 42    | 45    | 48    | 50    | 52    | 53     | 55     | 56     | 58     | 59                               | 60     | 61     | 62     | 63     | 64     | 65     |        |        |
| 6.0                    |                                                                 |       |       | 5950  | 5300  | 5050  | 5050  | 5050  | 5000  | 5000  | 5000  | 4950  | 4950  | 4950   | 4900   | 4900   | 4800   | 4700                             | 4650   | 4600   | 4550   | 4500   | 4450   | 4400   | 4350   | 4300   |
|                        |                                                                 |       |       | (5.3) | (5.8) | 14    | 23    | 29    | 34    | 37    | 40    | 43    | 46    | 48     | 50     | 51     | 53     | 54                               | 56     | 57     | 58     | 59     | 60     | 61     | 62     | 63     |
| 7.0                    |                                                                 |       |       |       |       | 4750  | 4250  | 4100  | 4100  | 4100  | 4050  | 4050  | 4050  | 4050   | 4000   | 4000   | 4000   | 4000                             | 4000   | 4000   | 3950   | 3900   | 3850   | 3850   | 3800   | 3750   |
|                        |                                                                 |       |       |       |       | (6.3) | (6.8) | 14    | 22    | 28    | 32    | 36    | 39    | 41     | 44     | 46     | 48     | 50                               | 51     | 53     | 54     | 55     | 56     | 57     | 58     | 59     |
| 8.0                    |                                                                 |       |       |       |       |       |       | 3850  | 3500  | 3400  | 3400  | 3350  | 3350  | 3350   | 3350   | 3300   | 3300   | 3300                             | 3350   | 3350   | 3400   | 3450   | 3400   | 3350   | 3350   | 3300   |
|                        |                                                                 |       |       |       |       |       |       | (7.3) | (7.8) | 13    | 21    | 27    | 31    | 34     | 37     | 40     | 42     | 44                               | 46     | 48     | 49     | 51     | 52     | 53     | 55     | 56     |
| 9.0                    |                                                                 |       |       |       |       |       |       |       |       | 3200  | 2900  | 2800  | 2800  | 2800   | 2800   | 2800   | 2750   | 2800                             | 2850   | 2850   | 2900   | 2950   | 2950   | 2950   | 2950   | 2950   |
|                        |                                                                 |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 12    | 20    | 25     | 30     | 33     | 36     | 39                               | 41     | 43     | 45     | 46     | 48     | 49     | 51     | 52     |
| 10                     |                                                                 |       |       |       |       |       |       |       |       |       |       | 2700  | 2450  | 2400   | 2350   | 2350   | 2350   | 2350                             | 2400   | 2400   | 2450   | 2500   | 2500   | 2550   | 2550   | 2600   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 19     | 25     | 29     | 32                               | 35     | 37     | 40     | 42     | 43     | 45     | 47     | 48     |
| 11                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       | 2250   | 2050   | 2000   | 2000   | 2000                             | 2050   | 2050   | 2100   | 2150   | 2150   | 2200   | 2200   | 2250   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 12     | 19     | 24                               | 28     | 31     | 34     | 36     | 38     | 40     | 42     | 44     |
| 12                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 1900   | 1750   | 1700                             | 1750   | 1750   | 1800   | 1850   | 1850   | 1900   | 1900   | 1950   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.3) | (11.8) | 12                               | 18     | 23     | 27     | 30     | 33     | 35     | 37     | 40     |
| 13                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        | 1600                             | 1550   | 1500   | 1550   | 1600   | 1600   | 1650   | 1650   | 1700   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        | (12.3)                           | (12.8) | 11     | 18     | 22     | 26     | 29     | 32     | 35     |
| 14                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        | 1450   | 1350   | 1350   | 1400   | 1400   | 1450   | 1500   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        | (13.3) | (13.8) | 11     | 17     | 22     | 25     | 29     |
| 15                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        | 1300   | 1250   | 1250   | 1250   | 1300   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        | (14.3) | (14.8) | 10     | 17     | 22     |
| 16.45                  |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |        |        | 1200   | 1100   | 1050   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |        |        | (15.3) | (15.8) | (16.5) |

**NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD**

**MAC-25 4m FLYJIB BOTTOM POSITION LOAD CHART - 10 DEG**

COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

BOOM ANGLE - UNDEFLECTED (REF.)

NOTE : VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES  
LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS  
CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

ROBWAY DUTY 05

| Radius in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        | THIRD BOOM EXTENDING |        |        |              |        |        |        |       |
|---------------------|-----------------------------------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|-------|--------|----------------------|--------|--------|--------------|--------|--------|--------|-------|
|                     | (metres)                                            |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        | (metres)             |        |        |              |        |        |        |       |
|                     | 10.11                                               | 10.50 | 11.00 | 11.50 | 12.00 | 12.50  | 13.00  | 13.50  | 14.00  | 14.50  | 15.00  | 15.50  | 16.00 | 16.50 | 17.00  | 17.50  | 18.00 | 18.31  | 19.00                | 19.50  | 20.00  | 20.50        | 21.00  | 21.50  | 22.00  | 22.41 |
| 2.6                 | 700                                                 |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
|                     | 65                                                  |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
| 3.0                 | 700                                                 | 700   | 700   |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
|                     | 62                                                  | 64    | 65    |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        | WINCH S.W.L. |        |        |        |       |
|                     |                                                     |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        | SINGLE PART  |        |        |        | 4200  |
| 3.5                 | 600                                                 | 600   | 700   | 700   | 700   |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
|                     | 59                                                  | 60    | 62    | 63    | 65    |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
| 4.0                 | 600                                                 | 600   | 600   | 600   | 700   | 700    | 700    | 700    |        |        |        |        |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
|                     | 55                                                  | 57    | 59    | 60    | 62    | 63     | 64     | 65     |        |        |        |        |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
| 5.0                 | 600                                                 | 600   | 600   | 600   | 600   | 600    | 600    | 600    | 700    | 700    | 700    | 700    |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
|                     | 47                                                  | 49    | 52    | 54    | 56    | 58     | 59     | 60     | 62     | 63     | 64     | 65     |       |       |        |        |       |        |                      |        |        |              |        |        |        |       |
| 6.0                 | 500                                                 | 600   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 700   | 700   | 700    | 700    | 700   |        |                      |        |        |              |        |        |        |       |
|                     | 38                                                  | 41    | 44    | 47    | 49    | 52     | 53     | 55     | 57     | 58     | 59     | 60     | 61    | 62    | 63     | 64     | 65    |        |                      |        |        |              |        |        |        |       |
| 7.0                 | 500                                                 | 500   | 500   | 500   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600   | 600   | 600    | 600    | 700   | 700    | 700                  | 700    |        |              |        |        |        |       |
|                     | 24                                                  | 29    | 35    | 39    | 42    | 45     | 47     | 49     | 51     | 53     | 54     | 56     | 57    | 58    | 59     | 60     | 61    | 62     |                      |        |        |              |        |        |        |       |
| 8.0                 | 500                                                 | 500   | 500   | 500   | 500   | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600   | 600   | 600    | 600    | 600   | 600    | 600                  | 600    | 600    | 700          | 700    | 700    | 700    | 700   |
|                     | (7.4)                                               | (7.8) | 20    | 28    | 33    | 37     | 40     | 43     | 45     | 47     | 49     | 51     | 52    | 54    | 55     | 56     | 58    | 58     | 60                   | 60     | 61     | 62           | 63     | 64     | 64     | 65    |
| 9.0                 |                                                     |       | 500   | 500   | 500   | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600   | 600   | 600    | 600    | 600   | 600    | 600                  | 600    | 600    | 600          | 600    | 600    | 700    | 700   |
|                     |                                                     |       | (8.3) | (8.8) | 19    | 26     | 31     | 35     | 38     | 41     | 44     | 46     | 47    | 49    | 51     | 52     | 53    | 54     | 56                   | 57     | 58     | 59           | 60     | 60     | 61     | 62    |
| 10.0                |                                                     |       |       |       | 500   | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600   | 600   | 600    | 600    | 600   | 600    | 600                  | 600    | 600    | 600          | 600    | 600    | 600    | 600   |
|                     |                                                     |       |       |       | (9.3) | (9.8)  | 18     | 25     | 30     | 34     | 37     | 40     | 42    | 44    | 46     | 48     | 49    | 50     | 52                   | 53     | 54     | 55           | 56     | 57     | 58     | 59    |
| 11.0                |                                                     |       |       |       |       | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 600   | 600    | 600    | 600   | 600    | 600                  | 600    | 600    | 600          | 600    | 600    | 600    | 600   |
|                     |                                                     |       |       |       |       | (10.3) | (10.8) | 17     | 24     | 29     | 33     | 36     | 38    | 41    | 43     | 44     | 46    | 48     | 49                   | 50     | 52     | 53           | 54     | 55     | 56     | 56    |
| 12                  |                                                     |       |       |       |       |        | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500   | 500    | 500    | 500   | 600    | 600                  | 600    | 600    | 600          | 600    | 600    | 600    | 600   |
|                     |                                                     |       |       |       |       |        | (11.3) | (11.8) | 17     | 23     | 28     | 31     | 34    | 37    | 39     | 41     | 43    | 45     | 46                   | 48     | 49     | 50           | 51     | 52     | 52     | 52    |
| 13                  |                                                     |       |       |       |       |        |        | 500    | 500    | 500    | 500    | 500    | 500   | 500   | 500    | 500    | 500   | 500    | 500                  | 600    | 600    | 600          | 600    | 600    | 600    | 600   |
|                     |                                                     |       |       |       |       |        |        | (12.3) | (12.8) | 16     | 22     | 27     | 30    | 33    | 35     | 38     | 40    | 42     | 44                   | 45     | 47     | 48           | 48     | 49     | 49     | 49    |
| 14                  |                                                     |       |       |       |       |        |        |        | 500    | 500    | 500    | 500    | 500   | 500   | 500    | 500    | 500   | 500    | 500                  | 500    | 500    | 500          | 500    | 500    | 500    | 500   |
|                     |                                                     |       |       |       |       |        |        |        | (13.3) | (13.8) | 15     | 22     | 26    | 28    | 32     | 35     | 37    | 39     | 41                   | 42     | 44     | 45           | 45     | 45     | 45     | 45    |
| 15                  |                                                     |       |       |       |       |        |        |        |        |        | 500    | 500    | 500   | 500   | 500    | 500    | 500   | 500    | 500                  | 500    | 500    | 500          | 500    | 500    | 500    | 500   |
|                     |                                                     |       |       |       |       |        |        |        |        |        | (14.3) | (14.8) | 15    | 19    | 25     | 29     | 31    | 34     | 36                   | 38     | 40     | 41           | 41     | 41     | 41     | 41    |
| 16                  |                                                     |       |       |       |       |        |        |        |        |        |        |        |       |       | 500    | 500    | 500   | 500    | 500                  | 500    | 500    | 500          | 500    | 500    | 500    | 500   |
|                     |                                                     |       |       |       |       |        |        |        |        |        |        |        |       |       | (15.3) | (15.6) | 14    | 20     | 24                   | 28     | 31     | 33           | 35     | 37     | 37     | 37    |
| 18                  |                                                     |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       | 500    | 500                  | 500    | 500    | 500          | 500    | 500    | 500    | 500   |
|                     |                                                     |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       | (16.3) | (16.8)               | (17.3) | (17.8) | 14           | 19     | 23     | 26     | 26    |
| 19.7                |                                                     |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        |              |        | 500    | 500    | 500   |
|                     |                                                     |       |       |       |       |        |        |        |        |        |        |        |       |       |        |        |       |        |                      |        |        |              | (18.3) | (18.8) | (19.3) | 500   |



## MAC-25 4m FLYJIB BOTTOM POSITION LOAD CHART - 40 DEG

ROBWAY DUTY **05**

### COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**700** S.W.L IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).

**65** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |       |        |        |        |     |
|------------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|----------------------------------|--------|--------|--------|-------|--------|--------|--------|-----|
|                        | 10.11                                                           | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00 | 18.31  | 19.00                            | 19.50  | 20.00  | 20.50  | 21.00 | 21.50  | 22.00  | 22.41  |     |
| 2.6                    | 700                                                             |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
|                        | 65                                                              |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
| 3.0                    | 700                                                             | 700   | 700   |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
|                        | 62                                                              | 64    | 65    |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
| 3.5                    | 600                                                             | 600   | 700   | 700   | 700   |       |        |        |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
|                        | 59                                                              | 60    | 62    | 63    | 65    |       |        |        |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
| 4.0                    | 600                                                             | 600   | 600   | 600   | 700   | 700   | 700    | 700    |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
|                        | 55                                                              | 57    | 59    | 60    | 62    | 63    | 64     | 65     |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
| 5.0                    | 600                                                             | 600   | 600   | 600   | 600   | 600   | 600    | 600    | 700    | 700    | 700    | 700    |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
|                        | 47                                                              | 49    | 52    | 54    | 56    | 58    | 59     | 60     | 62     | 63     | 64     | 65     |        |        |        |        |       |        |                                  |        |        |        |       |        |        |        |     |
| 6.0                    | 500                                                             | 600   | 600   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700    | 700   |        |                                  |        |        |        |       |        |        |        |     |
|                        | 38                                                              | 41    | 44    | 47    | 49    | 52    | 53     | 55     | 57     | 58     | 59     | 60     | 61     | 62     | 63     | 64     | 65    |        |                                  |        |        |        |       |        |        |        |     |
| 7.0                    | 500                                                             | 500   | 500   | 500   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 700   | 700    | 700                              | 700    |        |        |       |        |        |        |     |
|                        | 24                                                              | 29    | 35    | 39    | 42    | 45    | 47     | 49     | 51     | 53     | 54     | 56     | 57     | 58     | 59     | 60     | 61    | 62     | 63                               | 64     | 65     |        |       |        |        |        |     |
| 8.0                    | 500                                                             | 500   | 500   | 500   | 500   | 500   | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600   | 600    | 600                              | 600    | 700    | 700    | 700   | 700    | 700    | 700    |     |
|                        | (7.4)                                                           | (7.8) | 20    | 28    | 33    | 37    | 40     | 43     | 45     | 47     | 49     | 51     | 52     | 54     | 55     | 56     | 58    | 58     | 60                               | 60     | 61     | 62     | 63    | 64     | 64     | 65     |     |
| 9.0                    |                                                                 |       | 500   | 500   | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500    | 500                              | 500    | 600    | 600    | 600   | 600    | 600    | 600    |     |
|                        |                                                                 |       | (8.3) | (8.8) | 19    | 26    | 31     | 35     | 38     | 41     | 44     | 46     | 47     | 49     | 51     | 52     | 53    | 54     | 56                               | 57     | 58     | 59     | 60    | 60     | 61     | 62     |     |
| 10.0                   |                                                                 |       |       |       | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500    | 500                              | 500    | 500    | 500    | 500   | 500    | 500    | 500    |     |
|                        |                                                                 |       |       |       | (9.3) | (9.8) | 18     | 25     | 30     | 34     | 37     | 40     | 42     | 44     | 46     | 48     | 49    | 50     | 52                               | 53     | 54     | 55     | 56    | 57     | 58     | 59     |     |
| 11.0                   |                                                                 |       |       |       |       |       | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500    | 500                              | 500    | 500    | 500    | 500   | 500    | 500    | 500    |     |
|                        |                                                                 |       |       |       |       |       | (10.3) | (10.8) | 17     | 24     | 29     | 33     | 36     | 38     | 41     | 43     | 44    | 46     | 48                               | 49     | 50     | 52     | 53    | 54     | 55     | 56     |     |
| 12                     |                                                                 |       |       |       |       |       |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500    | 500                              | 500    | 500    | 500    | 500   | 500    | 500    | 500    |     |
|                        |                                                                 |       |       |       |       |       |        |        | (11.3) | (11.8) | 17     | 23     | 28     | 31     | 34     | 37     | 39    | 41     | 43                               | 45     | 46     | 48     | 49    | 50     | 51     | 52     |     |
| 13                     |                                                                 |       |       |       |       |       |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500   | 500    | 500                              | 500    | 500    | 500    | 500   | 500    | 500    | 500    |     |
|                        |                                                                 |       |       |       |       |       |        |        |        |        | (12.3) | (12.8) | 16     | 22     | 27     | 30     | 33    | 35     | 38                               | 40     | 42     | 44     | 45    | 47     | 48     | 49     |     |
| 14                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500   | 500    | 500                              | 500    | 500    | 500    | 500   | 500    | 500    | 500    |     |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        | (13.3) | (13.8) | 15     | 22     | 26    | 28     | 32                               | 35     | 37     | 39     | 41    | 42     | 44     | 45     |     |
| 15                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        | 500    | 500    | 500   | 500    | 500                              | 500    | 500    | 500    | 500   | 500    | 500    | 500    |     |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        | (14.3) | (14.8) | 15    | 19     | 25                               | 29     | 31     | 34     | 36    | 38     | 40     | 41     |     |
| 16                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       | 500    | 500                              | 500    | 500    | 500    | 500   | 500    | 500    | 500    |     |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       | (15.3) | (15.6)                           | 14     | 20     | 24     | 28    | 31     | 33     | 35     | 37  |
| 18                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        | 500                              | 500    | 500    | 500    | 500   | 500    | 500    | 500    |     |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        | (16.3)                           | (16.8) | (17.3) | (17.8) | 14    | 19     | 23     | 26     |     |
| 19.7                   |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       |        | 500    | 500    | 500 |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |       |        |                                  |        |        |        |       | (18.3) | (18.8) | (19.7) |     |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 4m FLYJIB TOP POSITION LOAD CHART - 10 DEG

ROBWAY DUTY **06**

### COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).  
**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)  
**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 86.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |       |       |        |        |        |  |
|---------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|-------|-------|--------|--------|--------|--|
|                     | 10.18                                                           | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.38  | 19.00                            | 19.50  | 20.00  | 20.50  | 21.00 | 21.50 | 22.00  | 22.48  |        |  |
| 2.8                 | 700                                                             |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |  |
|                     | 65                                                              |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |  |
| 3.0                 | 700                                                             | 700   | 700   |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |  |
|                     | 63                                                              | 64    | 65    |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |  |
| 3.5                 | 600                                                             | 600   | 600   | 700   | 700   | 700   | 700    | 700    |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |  |
|                     | 56                                                              | 57    | 59    | 61    | 62    | 63    | 64     | 65     |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |  |
| 4.0                 | 600                                                             | 600   | 600   | 600   | 600   | 600   | 600    | 700    | 700    | 700    | 700    |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |  |
|                     | 49                                                              | 51    | 53    | 55    | 56    | 58    | 59     | 61     | 62     | 63     | 64     | 65     |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |  |
| 5.0                 | 600                                                             | 600   | 600   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700    | 700    | 700    |        |                                  |        |        |        |       |       |        |        |        |  |
|                     | 41                                                              | 43    | 46    | 48    | 50    | 52    | 54     | 56     | 57     | 58     | 60     | 61     | 62     | 63     | 63     | 64     | 65     |        |                                  |        |        |        |       |       |        |        |        |  |
| 6.0                 | 500                                                             | 500   | 500   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700                              | 700    | 700    | 700    |       |       |        |        |        |  |
|                     | 32                                                              | 34    | 38    | 41    | 44    | 46    | 48     | 50     | 52     | 54     | 55     | 56     | 57     | 59     | 60     | 61     | 62     | 62     | 63                               | 64     | 65     | 65     |       |       |        |        |        |  |
| 7.0                 | 500                                                             | 500   | 500   | 500   | 500   | 500   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 700   | 700   | 700    | 700    | 700    |  |
|                     | 18                                                              | 23    | 28    | 33    | 36    | 39    | 42     | 44     | 47     | 48     | 50     | 52     | 53     | 54     | 56     | 57     | 58     | 59     | 60                               | 61     | 61     | 62     | 63    | 64    | 64     | 65     |        |  |
| 8.0                 | 500                                                             | 500   | 500   | 500   | 500   | 500   | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 700    | 700    | 700    |  |
|                     | (7.5)                                                           | (7.8) | 14    | 22    | 27    | 31    | 35     | 38     | 41     | 43     | 45     | 47     | 48     | 50     | 51     | 53     | 54     | 55     | 56                               | 57     | 58     | 59     | 60    | 61    | 61     | 62     |        |  |
| 9.0                 |                                                                 |       | 500   | 500   | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600    | 600    | 600    |  |
|                     |                                                                 |       | (8.3) | (8.8) | 13    | 21    | 26     | 30     | 34     | 37     | 39     | 41     | 43     | 45     | 47     | 48     | 50     | 51     | 52                               | 54     | 55     | 56     | 57    | 57    | 58     | 59     |        |  |
| 10.0                |                                                                 |       |       |       | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600    | 600    | 600    |  |
|                     |                                                                 |       |       |       | (9.3) | (9.8) | 13     | 20     | 25     | 29     | 33     | 35     | 38     | 40     | 42     | 44     | 46     | 47     | 48                               | 50     | 51     | 52     | 53    | 54    | 55     | 56     |        |  |
| 11.0                |                                                                 |       |       |       |       |       | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600    | 600    | 600    |  |
|                     |                                                                 |       |       |       |       |       | (10.3) | (10.8) | 12     | 19     | 24     | 28     | 31     | 34     | 37     | 39     | 41     | 42     | 44                               | 46     | 47     | 48     | 50    | 51    | 52     | 53     |        |  |
| 12                  |                                                                 |       |       |       |       |       |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 600    | 600    | 600    | 600   | 600   | 600    | 600    | 600    |  |
|                     |                                                                 |       |       |       |       |       |        |        | (11.3) | (11.8) | 12     | 19     | 24     | 27     | 31     | 33     | 36     | 37     | 40                               | 41     | 43     | 45     | 46    | 47    | 48     | 50     |        |  |
| 13                  |                                                                 |       |       |       |       |       |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500    | 600   | 600   | 600    | 600    |        |  |
|                     |                                                                 |       |       |       |       |       |        |        |        |        | (12.3) | (12.8) | 11     | 18     | 23     | 27     | 30     | 32     | 35                               | 37     | 39     | 40     | 42    | 44    | 45     | 46     |        |  |
| 14                  |                                                                 |       |       |       |       |       |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500    | 500   | 500   | 600    | 600    |        |  |
|                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        | (13.3) | (13.8) | 11     | 18     | 22     | 25     | 29                               | 31     | 34     | 36     | 38    | 39    | 41     | 42     |        |  |
| 15                  |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500    | 500   | 500   | 500    | 500    |        |  |
|                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        | (14.3) | (14.8) | 11     | 16     | 22                               | 25     | 28     | 31     | 33    | 35    | 37     | 38     |        |  |
| 16                  |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        | 500    | 500    | 500                              | 500    | 500    | 500    | 500   | 500   | 500    | 500    |        |  |
|                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        | (15.3) | (15.7) | 11                               | 17     | 21     | 25     | 27    | 30    | 32     | 34     |        |  |
| 18                  |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | 500                              | 500    | 500    | 500    | 500   | 500   | 500    | 500    |        |  |
|                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | (16.3)                           | (16.8) | (17.3) | (17.8) | 10    | 16    | 20     | 23     |        |  |
| 19.7                |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       | 500    | 500    | 500    |  |
|                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       | (18.3) | (18.8) | (19.7) |  |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 4m FLYJIB TOP POSITION LOAD CHART - 40 DEG

### COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**700** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).  
**65** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

ROBWAY DUTY **06**

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES  
 LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | THIRD BOOM EXTENDING |        |        |                                  |       |       |        |        |        |
|------------------------|-----------------------------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|--------|----------------------------------|-------|-------|--------|--------|--------|
|                        | (metres)                                            |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | (metres)             |        |        |                                  |       |       |        |        |        |
|                        | 10.18                                               | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.38  | 19.00                | 19.50  | 20.00  | 20.50                            | 21.00 | 21.50 | 22.00  | 22.48  |        |
| 1.6                    | 700                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                      |        |        |                                  |       |       |        |        |        |
|                        | 65                                                  |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                      |        |        |                                  |       |       |        |        |        |
| 2.0                    | 700                                                 | 700   | 700   |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                      |        |        |                                  |       |       |        |        |        |
|                        | 63                                                  | 64    | 65    |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                      |        |        | WINCH S.W.L.<br>SINGLE PART 4200 |       |       |        |        |        |
| 3.0                    | 600                                                 | 600   | 600   | 700   | 700   | 700   | 700    | 700    |        |        |        |        |        |        |        |        |        |        |                      |        |        |                                  |       |       |        |        |        |
|                        | 56                                                  | 57    | 59    | 61    | 62    | 63    | 64     | 65     |        |        |        |        |        |        |        |        |        |        |                      |        |        |                                  |       |       |        |        |        |
| 4.0                    | 600                                                 | 600   | 600   | 600   | 600   | 600   | 600    | 700    | 700    | 700    | 700    |        |        |        |        |        |        |        |                      |        |        |                                  |       |       |        |        |        |
|                        | 49                                                  | 51    | 53    | 55    | 56    | 58    | 59     | 61     | 62     | 63     | 64     | 65     |        |        |        |        |        |        |                      |        |        |                                  |       |       |        |        |        |
| 5.0                    | 600                                                 | 600   | 600   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700    | 700    |        |        |        |                      |        |        |                                  |       |       |        |        |        |
|                        | 41                                                  | 43    | 46    | 48    | 50    | 52    | 54     | 56     | 57     | 58     | 60     | 61     | 62     | 63     | 63     | 64     | 65     |        |                      |        |        |                                  |       |       |        |        |        |
| 6.0                    | 500                                                 | 500   | 500   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700                  | 700    | 700    |                                  |       |       |        |        |        |
|                        | 32                                                  | 34    | 38    | 41    | 44    | 46    | 48     | 50     | 52     | 54     | 55     | 56     | 57     | 59     | 60     | 61     | 62     | 62     | 63                   | 64     | 65     | 65                               |       |       |        |        |        |
| 7.0                    | 500                                                 | 500   | 500   | 500   | 500   | 500   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                  | 600    | 600    | 600                              | 700   | 700   | 700    | 700    |        |
|                        | 18                                                  | 23    | 28    | 33    | 36    | 39    | 42     | 44     | 47     | 48     | 50     | 52     | 53     | 54     | 56     | 57     | 58     | 59     | 60                   | 61     | 61     | 62                               | 63    | 64    | 64     | 65     |        |
| 8.0                    | 500                                                 | 500   | 500   | 500   | 500   | 500   | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                  | 600    | 600    | 600                              | 600   | 700   | 700    | 700    |        |
|                        | (7.5)                                               | (7.8) | 14    | 22    | 27    | 31    | 35     | 38     | 41     | 43     | 45     | 47     | 48     | 50     | 51     | 53     | 54     | 55     | 56                   | 57     | 58     | 59                               | 60    | 61    | 61     | 62     |        |
| 9.0                    |                                                     |       | 500   | 500   | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                  | 600    | 600    | 600                              | 600   | 600   | 600    | 600    |        |
|                        |                                                     |       | (8.3) | (8.8) | 13    | 21    | 26     | 30     | 34     | 37     | 39     | 41     | 43     | 45     | 47     | 48     | 50     | 51     | 52                   | 54     | 55     | 56                               | 57    | 57    | 58     | 59     |        |
| 10.0                   |                                                     |       |       |       | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600                  | 600    | 600    | 600                              | 600   | 600   | 600    | 600    |        |
|                        |                                                     |       |       |       | (9.3) | (9.8) | 13     | 20     | 25     | 29     | 33     | 35     | 38     | 40     | 42     | 44     | 46     | 47     | 48                   | 50     | 51     | 52                               | 53    | 54    | 55     | 56     |        |
| 11.0                   |                                                     |       |       |       |       |       | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600                  | 600    | 600    | 600                              | 600   | 600   | 600    | 600    |        |
|                        |                                                     |       |       |       |       |       | (10.3) | (10.8) | 12     | 19     | 24     | 28     | 31     | 34     | 37     | 39     | 41     | 42     | 44                   | 46     | 47     | 48                               | 50    | 51    | 52     | 53     |        |
| 12                     |                                                     |       |       |       |       |       |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500                  | 600    | 600    | 600                              | 600   | 600   | 600    | 600    |        |
|                        |                                                     |       |       |       |       |       |        |        | (11.3) | (11.8) | 12     | 19     | 24     | 27     | 31     | 33     | 36     | 37     | 40                   | 41     | 43     | 45                               | 46    | 47    | 48     | 50     |        |
| 13                     |                                                     |       |       |       |       |       |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500                  | 500    | 500    | 500                              | 500   | 500   | 500    | 500    |        |
|                        |                                                     |       |       |       |       |       |        |        |        |        | (12.3) | (12.8) | 11     | 18     | 23     | 27     | 30     | 32     | 35                   | 37     | 39     | 40                               | 42    | 44    | 45     | 46     |        |
| 14                     |                                                     |       |       |       |       |       |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500                  | 500    | 500    | 500                              | 500   | 500   | 500    | 500    |        |
|                        |                                                     |       |       |       |       |       |        |        |        |        |        |        | (13.3) | (13.8) | 11     | 18     | 22     | 25     | 29                   | 31     | 34     | 36                               | 38    | 39    | 41     | 42     |        |
| 15                     |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500                  | 500    | 500    | 500                              | 500   | 500   | 500    | 500    |        |
|                        |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        | (14.3) | (14.8) | 11     | 16     | 22                   | 25     | 28     | 31                               | 33    | 35    | 37     | 38     |        |
| 16                     |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        | 500    | 500    | 500                  | 500    | 500    | 500                              | 500   | 500   | 500    | 500    |        |
|                        |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        | (15.3) | (15.7) | 11                   | 17     | 21     | 25                               | 27    | 30    | 32     | 34     |        |
| 18                     |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | 500                  | 500    | 500    | 500                              | 500   | 500   | 500    | 500    |        |
|                        |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | (16.3)               | (16.8) | (17.3) | (17.8)                           | 10    | 16    | 20     | 23     |        |
| 19.77                  |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                      |        |        |                                  |       |       |        |        |        |
|                        |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                      |        |        |                                  |       |       | 500    | 500    | 500    |
|                        |                                                     |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                      |        |        |                                  |       |       | (18.3) | (18.8) | (19.8) |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
 LOAD HANDLING DEVICES SHALL BE ADDED  
 TO THE WEIGHT OF THE LOAD

## MAC-25 MAN BASKET LOAD CHART - 10 DEG. ART.

COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER  
SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

ROBWAY DUTY **07**

MAN BASKET S.W.L : 275 KG TARE WEIGHT: 250 KG

S.W.L. ARE BASED ON FALL BLOCK LOAD RATINGS DIVIDED BY THREE  
WHERE THIS IS LESS THAN THE STRUCTURAL RATING OF THE BASKET

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

| Radius<br>in<br>Metres | BOOM PIVOT TO HEAD SHEAVES - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |        |        |        |        |
|------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                        | 6.12                                                          | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.32                            | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.42  |
| 1.4                    | 275                                                           | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
|                        | 48                                                            | 51    | 54    | 57    | 59    | 61    | 63    | 65    |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
| 2.0                    | 275                                                           | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |       |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
|                        | 40                                                            | 44    | 48    | 51    | 54    | 57    | 59    | 61    | 62    | 64    | 65    |       |       |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
| 2.5                    | 275                                                           | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
|                        | 32                                                            | 37    | 42    | 46    | 50    | 52    | 55    | 57    | 59    | 61    | 62    | 63    | 65    |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
| 3.0                    | 275                                                           | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    |                                  |        |        |        |        |        |        |        |        |        |
|                        | 21                                                            | 29    | 35    | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 61    | 62    | 63    | 64     | 65     |                                  |        |        |        |        |        |        |        |        |        |
| 3.5                    | 275                                                           | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                              | 275    |        |        |        |        |        |        |        |        |
|                        | (3.4)                                                         | 17    | 28    | 34    | 39    | 43    | 47    | 49    | 52    | 54    | 56    | 58    | 59    | 61    | 62     | 63     | 65                               | 65     |        |        |        |        |        |        |        |        |
| 4.0                    |                                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                              | 275    | 275    | 275    |        |        |        |        |        |        |
|                        |                                                               | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    | 48    | 51    | 53    | 55    | 56    | 58    | 59     | 61     | 62                               | 63     | 64     | 65     |        |        |        |        |        |        |
| 5.0                    |                                                               |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                              | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    | 40    | 43    | 46    | 48    | 50    | 52    | 54     | 56     | 58                               | 58     | 59     | 61     | 62     | 63     | 63     | 64     | 65     |        |
| 6.0                    |                                                               |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                              | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       | (5.3) | (5.8) | 15    | 24    | 30    | 34    | 38    | 41    | 44    | 46    | 48     | 50     | 53                               | 53     | 55     | 56     | 57     | 58     | 60     | 61     | 61     | 62     |
| 7.0                    |                                                               |       |       |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                              | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       |       |       | (6.3) | (6.8) | 14    | 23    | 28    | 33    | 36    | 39    | 42     | 44     | 48                               | 48     | 50     | 52     | 53     | 54     | 56     | 57     | 58     | 59     |
| 8.0                    |                                                               |       |       |       |       |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                              | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       |       |       |       |       | (7.3) | (7.8) | 14    | 22    | 27    | 31    | 35     | 38     | 42                               | 43     | 45     | 47     | 48     | 50     | 51     | 53     | 54     | 55     |
| 9.0                    |                                                               |       |       |       |       |       |       |       |       |       | 275   | 275   | 275   | 275   | 275    | 275    | 275                              | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 26     | 30     | 35                               | 36     | 39     | 41     | 43     | 45     | 47     | 48     | 50     | 51     |
| 10                     |                                                               |       |       |       |       |       |       |       |       |       |       |       | 275   | 275   | 275    | 275    | 275                              | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 20     | 28                               | 29     | 32     | 35     | 38     | 40     | 42     | 44     | 45     | 47     |
| 11                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       | 275    | 275    | 275                              | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 17                               | 19     | 24     | 28     | 31     | 34     | 37     | 39     | 41     | 42     |
| 12                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 275                              | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.6)                           | (11.8) | 12     | 19     | 23     | 27     | 30     | 33     | 36     | 37     |
| 13                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        | 275    | 275    | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        | (12.3) | (12.8) | 11     | 18     | 23     | 27     | 30     | 32     |
| 14                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        | 275    | 275    | 275    | 275    | 275    | 275    |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        | (13.3) | (13.8) | 11     | 18     | 22     | 25     |
| 15                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        | 275    | 250    | 250    | 265    |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        | (14.3) | (14.8) | 11     | 16     |
| 15.71                  |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        |        |        | 230    | 215    |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        |        |        | (15.3) | (15.7) |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD



## MAC-25 MAN BASKET LOAD CHART - 40 DEG. ART.

ROBWAY DUTY **07**

### COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).

**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)

**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

MAN BASKET S.W.L. : 275 KG TARE WEIGHT: 250 KG

S.W.L. ARE BASED ON FALL BLOCK LOAD RATINGS DIVIDED BY THREE WHERE THIS IS LESS THAN THE STRUCTURAL RATING OF THE BASKET

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

| Radius<br>in<br>Metres | BOOM PIVOT TO HEAD SHEAVES - THIRD BOOM RETRACTED |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | THIRD BOOM EXTENDING |        |        |        |        |        |        |       |        |        |  |  |
|------------------------|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--|--|
|                        | (metres)                                          |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (metres)             |        |        |        |        |        |        |       |        |        |  |  |
|                        | 6.12                                              | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.32                | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50 | 18.00  | 18.42  |  |  |
| 1.4                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |       |       |       |       |       |        |        |                      |        |        |        |        |        |        |       |        |        |  |  |
|                        | 48                                                | 51    | 54    | 57    | 59    | 61    | 63    | 65    |       |       |       |       |       |       |        |        |                      |        |        |        |        |        |        |       |        |        |  |  |
| 2.0                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |       |       |        |        |                      |        |        |        |        |        |        |       |        |        |  |  |
|                        | 40                                                | 44    | 48    | 51    | 54    | 57    | 59    | 61    | 62    | 64    | 65    |       |       |       |        |        |                      |        |        |        |        |        |        |       |        |        |  |  |
| 2.5                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |        |        |                      |        |        |        |        |        |        |       |        |        |  |  |
|                        | 32                                                | 37    | 42    | 46    | 50    | 52    | 55    | 57    | 59    | 61    | 62    | 63    | 65    |       |        |        |                      |        |        |        |        |        |        |       |        |        |  |  |
| 3.0                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    |                      |        |        |        |        |        |        |       |        |        |  |  |
|                        | 21                                                | 29    | 35    | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 61    | 62    | 63    | 64     | 65     |                      |        |        |        |        |        |        |       |        |        |  |  |
| 3.5                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    |        |        |        |        |        |       |        |        |  |  |
|                        | (3.4)                                             | 17    | 28    | 34    | 39    | 43    | 47    | 49    | 52    | 54    | 56    | 58    | 59    | 61    | 62     | 63     | 65                   | 65     |        |        |        |        |        |       |        |        |  |  |
| 4.0                    |                                                   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275    |        |        |        |       |        |        |  |  |
|                        |                                                   | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    | 48    | 51    | 53    | 55    | 56    | 58    | 59     | 61     | 62                   | 63     | 64     | 65     |        |        |        |       |        |        |  |  |
| 5.0                    |                                                   |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    | 40    | 43    | 46    | 48    | 50    | 52    | 54     | 56     | 58                   | 58     | 59     | 61     | 62     | 63     | 63     | 64    | 65     |        |  |  |
| 6.0                    |                                                   |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       |       |       | (5.3) | (5.8) | 15    | 24    | 30    | 34    | 38    | 41    | 44    | 46    | 48     | 50     | 53                   | 53     | 55     | 56     | 57     | 58     | 60     | 61    | 61     | 62     |  |  |
| 7.0                    |                                                   |       |       |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       |       |       |       |       | (6.3) | (6.8) | 14    | 23    | 28    | 33    | 36    | 39    | 42     | 44     | 48                   | 48     | 50     | 52     | 53     | 54     | 56     | 57    | 58     | 59     |  |  |
| 8.0                    |                                                   |       |       |       |       |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       |       |       |       |       |       |       | (7.3) | (7.8) | 14    | 22    | 27    | 31    | 35     | 38     | 42                   | 43     | 45     | 47     | 48     | 50     | 51     | 53    | 54     | 55     |  |  |
| 9.0                    |                                                   |       |       |       |       |       |       |       |       |       | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 26     | 30     | 35                   | 36     | 39     | 41     | 43     | 45     | 47     | 48    | 50     | 51     |  |  |
| 10                     |                                                   |       |       |       |       |       |       |       |       |       |       |       | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 20     | 28                   | 29     | 32     | 35     | 38     | 40     | 42     | 44    | 45     | 47     |  |  |
| 11                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       | 275    | 275    | 275                  | 275    | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 17                   | 19     | 24     | 28     | 31     | 34     | 37     | 39    | 41     | 42     |  |  |
| 12                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 275                  | 275    | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.6)               | (11.8) | 12     | 19     | 23     | 27     | 30     | 33    | 36     | 37     |  |  |
| 13                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        | 275    | 250    | 250    | 265    | 275    | 275   | 275    | 275    |  |  |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        | (12.3) | (12.8) | 11     | 18     | 23     | 27    | 30     | 32     |  |  |
| 14                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |        | 230    | 200    | 200    | 215   | 215    | 230    |  |  |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |        | (13.3) | (13.8) | 11     | 18    | 22     | 25     |  |  |
| 15                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |        |        |        | 180    | 165   | 165    | 165    |  |  |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |        |        | (14.3) | (14.8) | 11    | 16     |        |  |  |
| 15.71                  |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |        |        |        |        |       | 130    | 115    |  |  |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |        |        |        |        |       | (15.3) | (15.7) |  |  |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

## ROBWAY DUTY 08

### MAC-25 BUTT LUG - 10 DEG. ART. COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.  
SWL IS AT THIS RADIUS

### MAC-25 BUTT LUG - 40 DEG. ART. COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.  
SWL IS AT THIS RADIUS

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH - S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL - S.W.L. ARE BASED ON FIRM, LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

| Radius<br>in<br>Metres | Boom<br>Length<br>(metres)<br>4.81 |
|------------------------|------------------------------------|
| 1.4                    | 23550                              |
|                        | 32                                 |
| 1.5                    | 23100                              |
|                        | 30                                 |
| 1.6                    | 22700                              |
|                        | 27                                 |
| 1.7                    | 22300                              |
|                        | 24                                 |
| 1.8                    | 21400                              |
|                        | 21                                 |
| 1.9                    | 20150                              |
|                        | 18                                 |
| 2.1                    | 17950                              |
|                        | 0                                  |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

| Radius<br>in<br>Metres | Boom<br>Length<br>(metres)<br>4.81 |
|------------------------|------------------------------------|
| 1.4                    | 23550                              |
|                        | 32                                 |
| 1.5                    | 23100                              |
|                        | 30                                 |
| 1.6                    | 21700                              |
|                        | 27                                 |
| 1.7                    | 20300                              |
|                        | 24                                 |
| 1.8                    | 19100                              |
|                        | 21                                 |
| 1.9                    | 17950                              |
|                        | 18                                 |
| 2.1                    | 15950                              |
|                        | 0                                  |

### MAC25 LUG 1 LOAD CHART - 10 DEG. ART. COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER

SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

SWL IS AT THIS RADIUS

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH - S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL - S.W.L. ARE BASED ON FIRM, LEVEL GROUND WITH TYRES INFLATED AS PER NOTES  
LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

| RADIUS<br>IN<br>METRES | BOOM PIVOT TO LUG 1, 1st EXTENSION, THIRD EXTENSION RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |
|------------------------|---------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        | 5.36                                                                      | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.46  |
| 1.4                    | 24350                                                                     | 24300 | 24100 | 23950 | 23750 | 23600 | 23450 | 23250 | 23100 | 22950 |
|                        | 40                                                                        | 42    | 47    | 51    | 54    | 57    | 59    | 61    | 63    | 64    |
| 2                      | 19500                                                                     | 19400 | 19100 | 18850 | 18600 | 18400 | 18200 | 18000 | 17900 | 17750 |
|                        | 29                                                                        | 31    | 38    | 44    | 48    | 51    | 54    | 56    | 59    | 60    |
| 2.5                    | 15250                                                                     | 15200 | 14950 | 14700 | 14500 | 14300 | 14150 | 14000 | 13850 | 13750 |
|                        | 14                                                                        | 19    | 30    | 37    | 42    | 46    | 49    | 52    | 55    | 57    |
| 3                      | 14200                                                                     | 13350 | 12100 | 11950 | 11750 | 11600 | 11450 | 11300 | 11200 | 11100 |
|                        | (2.7)                                                                     | (2.8) | 18    | 29    | 35    | 41    | 45    | 48    | 51    | 53    |
| 3.5                    |                                                                           |       | 10800 | 9950  | 9800  | 9650  | 9500  | 9400  | 9300  | 9200  |
|                        |                                                                           |       | (3.3) | 17    | 28    | 34    | 39    | 43    | 46    | 49    |
| 4                      |                                                                           |       |       | 8900  | 8300  | 8150  | 8050  | 7950  | 7850  | 7750  |
|                        |                                                                           |       |       | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    |
| 5                      |                                                                           |       |       |       | 7500  | 6350  | 6000  | 5900  | 5800  | 5750  |
|                        |                                                                           |       |       |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    |
| 6                      |                                                                           |       |       |       |       |       | 5400  | 4650  | 4450  | 4400  |
|                        |                                                                           |       |       |       |       |       | (5.3) | (5.8) | 15    | 23    |
| 6.8                    |                                                                           |       |       |       |       |       |       |       | 4000  | 3500  |
|                        |                                                                           |       |       |       |       |       |       |       | (6.3) | (6.8) |

### MAC25 LUG 1 LOAD CHART - 40 DEG. ART. COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40

DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

SWL IS AT THIS RADIUS

| RADIUS<br>IN<br>METRES | BOOM PIVOT TO LUG 1, 1st EXTENSION, THIRD EXTENSION RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |
|------------------------|---------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        | 5.36                                                                      | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.46  |
| 1.4                    | 24350                                                                     | 24300 | 23450 | 21550 | 17850 | 16350 | 15100 | 14100 | 13200 | 12450 |
|                        | 40                                                                        | 42    | 47    | 51    | 54    | 57    | 59    | 61    | 63    | 64    |
| 2                      | 17450                                                                     | 17350 | 17000 | 16750 | 16500 | 15650 | 14700 | 13850 | 13100 | 11300 |
|                        | 29                                                                        | 31    | 38    | 44    | 48    | 51    | 54    | 56    | 59    | 60    |
| 2.5                    | 13600                                                                     | 13500 | 13250 | 13050 | 12800 | 12650 | 12500 | 12100 | 11400 | 10900 |
|                        | 14                                                                        | 19    | 30    | 37    | 42    | 46    | 49    | 52    | 55    | 57    |
| 3                      | 12650                                                                     | 11850 | 10750 | 10550 | 10350 | 10200 | 10050 | 9900  | 9800  | 9550  |
|                        | (2.7)                                                                     | (2.8) | 18    | 29    | 35    | 41    | 45    | 48    | 51    | 53    |
| 3.5                    |                                                                           |       | 9500  | 8750  | 8600  | 8450  | 8300  | 8200  | 8100  | 8000  |
|                        |                                                                           |       | (3.3) | 17    | 28    | 34    | 39    | 43    | 46    | 49    |
| 4                      |                                                                           |       |       | 7800  | 7250  | 7150  | 7000  | 6900  | 6800  | 6700  |
|                        |                                                                           |       |       | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    |
| 5                      |                                                                           |       |       |       | 6500  | 5500  | 5150  | 5050  | 5000  | 4900  |
|                        |                                                                           |       |       |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    |
| 6                      |                                                                           |       |       |       |       |       | 4650  | 3950  | 3750  | 3700  |
|                        |                                                                           |       |       |       |       |       | (5.3) | (5.8) | 15    | 23    |
| 6.8                    |                                                                           |       |       |       |       |       |       |       | 3350  | 2900  |
|                        |                                                                           |       |       |       |       |       |       |       | (6.3) | (6.8) |

## MAC-25 LUG 2 LOAD CHART - 10 DEG. ART. COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

ROBWAY DUTY **10**



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER  
SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES

INFLATED AS PER THE NOTES

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MIN BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO LUG 2, 2nd EXTENSION, THIRD EXTENSION RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |
|------------------------|---------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|                        | 5.57                                                                      | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 13.77  |
| 1.4                    | 24550                                                                     | 24500 | 24450 | 24400 | 24350 | 24300 | 24200 | 24150 | 24100 |       |       |       |       |       |       |        |        |        |
|                        | 42                                                                        | 46    | 50    | 54    | 57    | 59    | 61    | 63    | 64    |       |       |       |       |       |       |        |        |        |
| 2                      | 19650                                                                     | 19600 | 19600 | 19550 | 19550 | 19500 | 19500 | 19450 | 19450 | 19450 | 19400 | 19400 |       |       |       |        |        |        |
|                        | 32                                                                        | 38    | 43    | 47    | 51    | 54    | 56    | 58    | 60    | 62    | 63    | 64    |       |       |       |        |        |        |
| 2.5                    | 15400                                                                     | 15400 | 15350 | 15350 | 15350 | 15300 | 15300 | 15300 | 15250 | 15250 | 15250 | 15200 | 15200 | 15200 |       |        |        |        |
|                        | 20                                                                        | 29    | 36    | 42    | 46    | 49    | 52    | 54    | 57    | 58    | 60    | 62    | 63    | 64    |       |        |        |        |
| 3                      | 13150                                                                     | 12550 | 12550 | 12500 | 12500 | 12500 | 12450 | 12450 | 12450 | 12400 | 12400 | 12400 | 12400 | 12200 |       |        |        |        |
|                        | 13                                                                        | 18    | 28    | 35    | 40    | 44    | 48    | 50    | 53    | 55    | 57    | 59    | 60    | 61    | 63    |        |        |        |
| 3.5                    | 13150                                                                     | 11200 | 10500 | 10550 | 10500 | 10500 | 10500 | 10500 | 10450 | 10450 | 10450 | 10450 | 10450 | 10400 | 10400 | 10400  | 10400  | 10400  |
|                        | (2.9)                                                                     | (3.3) | 17    | 27    | 34    | 39    | 43    | 46    | 49    | 51    | 54    | 55    | 57    | 59    | 60    | 61     | 62     | 63     |
| 4                      |                                                                           |       | 9500  | 9000  | 9000  | 9000  | 9000  | 9000  | 8950  | 8950  | 8950  | 8950  | 8950  | 8950  | 8900  | 8900   | 8900   | 8900   |
|                        |                                                                           |       | (3.8) | 16    | 26    | 33    | 38    | 42    | 45    | 48    | 50    | 52    | 54    | 56    | 57    | 59     | 60     | 61     |
| 5                      |                                                                           |       |       | 8200  | 7150  | 6850  | 6900  | 6900  | 6850  | 6850  | 6850  | 6850  | 6850  | 6850  | 6850  | 6850   | 6800   | 6800   |
|                        |                                                                           |       |       | (4.3) | (4.8) | 15    | 25    | 31    | 36    | 39    | 43    | 45    | 48    | 50    | 52    | 53     | 55     | 56     |
| 6                      |                                                                           |       |       |       |       | 6350  | 5650  | 5450  | 5450  | 5450  | 5450  | 5450  | 5450  | 5450  | 5450  | 5450   | 5400   | 5400   |
|                        |                                                                           |       |       |       |       | (5.3) | (5.8) | 14    | 23    | 29    | 34    | 37    | 41    | 43    | 46    | 48     | 50     | 51     |
| 7                      |                                                                           |       |       |       |       |       |       | 5050  | 4550  | 4450  | 4450  | 4450  | 4450  | 4450  | 4450  | 4450   | 4450   | 4450   |
|                        |                                                                           |       |       |       |       |       |       | (6.3) | (6.8) | 14    | 22    | 28    | 32    | 36    | 39    | 42     | 44     | 45     |
| 8                      |                                                                           |       |       |       |       |       |       |       | 4150  | 3750  |       | 3700  | 3700  | 3700  | 3700  | 3700   | 3700   | 3700   |
|                        |                                                                           |       |       |       |       |       |       |       | (7.3) | (7.8) | 13    | 21    | 27    | 31    | 34    | 37     | 39     |        |
| 9                      |                                                                           |       |       |       |       |       |       |       |       |       |       | 3400  | 3150  | 3100  | 3100  | 3100   | 3100   | 3100   |
|                        |                                                                           |       |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 12    | 20    | 26     | 30     | 32     |
| 10                     |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       | 2850  | 2650  | 2600   | 2600   | 2600   |
|                        |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 19     | 23     |
| 11                     |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2400   | 2250   | 2200   |
|                        |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 6      |
| 11.1                   |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 2150   |
|                        |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.1) |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD



## MAC-25 LUG 2 LOAD CHART - 40 DEG. ART. COUNTERWEIGHT ON FRONT OF CRANE - SPRING LOCKOUTS ENGAGED

ROBWAY DUTY **10**



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH

DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL



BOOM ANGLE - UNDEFLECTED (REF.)

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

INFLATED AS PER THE NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MIN BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO LUG 2, 2nd EXTENSION, THIRD EXTENSION RETRACTED (METRES) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |
|------------------------|------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|                        | 5.57                                                                   | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 13.77  |
| 1.4                    | 24550                                                                  | 23850 | 22150 | 18400 | 17000 | 15850 | 14900 | 14100 | 13350 |       |       |       |       |       |       |        |        |        |
|                        | 42                                                                     | 46    | 50    | 54    | 57    | 59    | 61    | 63    | 64    |       |       |       |       |       |       |        |        |        |
| 2                      | 17550                                                                  | 17550 | 17500 | 17500 | 16550 | 14050 | 13800 | 12950 | 12250 | 11650 | 11100 | 10600 |       |       |       |        |        |        |
|                        | 32                                                                     | 38    | 43    | 47    | 51    | 54    | 56    | 58    | 60    | 62    | 63    | 64    |       |       |       |        |        |        |
| 2.5                    | 13700                                                                  | 13700 | 13700 | 13700 | 13650 | 13650 | 13200 | 12600 | 12100 | 11650 | 10300 | 9850  | 9450  | 9050  |       |        |        |        |
|                        | 20                                                                     | 29    | 36    | 42    | 46    | 49    | 52    | 54    | 57    | 58    | 60    | 62    | 63    | 64    |       |        |        |        |
| 3                      | 11700                                                                  | 11150 | 11150 | 11150 | 11100 | 11100 | 10800 | 10350 | 10000 | 9650  | 9350  | 8400  | 8100  | 7800  | 7550  |        |        |        |
|                        | 12                                                                     | 18    | 28    | 35    | 40    | 44    | 48    | 50    | 53    | 55    | 57    | 59    | 60    | 61    | 63    |        |        |        |
| 3.5                    | 11700                                                                  | 9950  | 9350  | 9350  | 9350  | 9300  | 9300  | 9300  | 9300  | 9250  | 9000  | 8700  | 8450  | 8200  | 7950  | 7250   | 7000   | 6850   |
|                        | (2.9)                                                                  | (3.3) | 17    | 27    | 34    | 39    | 43    | 46    | 49    | 51    | 54    | 55    | 57    | 59    | 60    | 61     | 62     | 63     |
| 4                      |                                                                        |       | 8400  | 7950  | 7950  | 7950  | 7950  | 7950  | 7950  | 7900  | 7900  | 7900  | 7650  | 7400  | 7200  | 7000   | 6850   | 6750   |
|                        |                                                                        |       | (3.8) | 16    | 26    | 33    | 38    | 42    | 45    | 48    | 50    | 52    | 54    | 56    | 57    | 59     | 60     | 61     |
| 5                      |                                                                        |       |       | 7250  | 6300  | 6050  | 6050  | 6050  | 6050  | 6050  | 6000  | 6000  | 6000  | 6000  | 5850  | 5700   | 5650   |        |
|                        |                                                                        |       |       | (4.3) | (4.8) | 15    | 25    | 31    | 36    | 39    | 43    | 45    | 48    | 50    | 52    | 53     | 55     | 56     |
| 6                      |                                                                        |       |       |       |       | 5550  | 4900  | 4750  | 4750  | 4750  | 4750  | 4750  | 4750  | 4750  | 4750  | 4750   | 4750   | 4750   |
|                        |                                                                        |       |       |       |       | (5.3) | (5.8) | 14    | 23    | 29    | 34    | 37    | 41    | 43    | 46    | 48     | 50     | 51     |
| 7                      |                                                                        |       |       |       |       |       |       | 4400  | 3950  | 3850  | 3850  | 3850  | 3850  | 3850  | 3850  | 3850   | 3850   | 3850   |
|                        |                                                                        |       |       |       |       |       |       | (6.3) | (6.8) | 14    | 22    | 28    | 32    | 36    | 39    | 42     | 44     | 45     |
| 8                      |                                                                        |       |       |       |       |       |       |       |       | 3550  | 3200  | 3150  | 3150  | 3150  | 3150  | 3150   | 3150   | 3150   |
|                        |                                                                        |       |       |       |       |       |       |       |       | (7.3) | (7.8) | 13    | 21    | 27    | 31    | 34     | 37     | 39     |
| 9                      |                                                                        |       |       |       |       |       |       |       |       |       |       | 2900  | 2650  | 2650  | 2650  | 2650   | 2650   | 2650   |
|                        |                                                                        |       |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 12    | 20    | 26     | 30     | 32     |
| 10                     |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       | 2400  | 2200  | 2200   | 2200   | 2200   |
|                        |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 19     | 23     |
| 11                     |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2000   | 1850   | 1850   |
|                        |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 6      |
| 11.1                   |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 1750   |
|                        |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.1) |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 FALL BLOCK LOAD CHART - 10 DEG. ART.

COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).

**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

ROBWAY DUTY **11**

| Radius<br>in<br>Metres | BOOM PIVOT TO HEAD SHEAVES - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |        |        |        |        |
|------------------------|---------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                        | 6.12                                                          | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.32                            | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.42  |
| 1.4                    | 25000                                                         | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
|                        | 48                                                            | 51    | 54    | 57    | 59    | 61    | 63    | 65    |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
| 2.0                    | 23000                                                         | 22950 | 22850 | 22950 | 22900 | 22850 | 22850 | 22800 | 22800 | 22150 | 19300 |       |       |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
|                        | 40                                                            | 44    | 48    | 51    | 54    | 57    | 59    | 61    | 62    | 64    | 65    |       |       |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
| 2.5                    | 18200                                                         | 18150 | 18150 | 18100 | 18050 | 18000 | 18000 | 17950 | 17950 | 17900 | 17750 | 15550 | 14600 |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
|                        | 32                                                            | 37    | 42    | 46    | 50    | 52    | 55    | 57    | 59    | 61    | 62    | 63    | 65    |       |        |        |                                  |        |        |        |        |        |        |        |        |        |
| 3.0                    | 14900                                                         | 14900 | 14900 | 14850 | 14800 | 14800 | 14750 | 14750 | 14700 | 14700 | 14700 | 14350 | 13500 | 13000 | 12600  | 12250  |                                  |        |        |        |        |        |        |        |        |        |
|                        | 21                                                            | 29    | 35    | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 61    | 62    | 63    | 64     | 65     |                                  |        |        |        |        |        |        |        |        |        |
| 3.5                    | 12900                                                         | 12550 | 12550 | 12500 | 12500 | 12500 | 12450 | 12450 | 12400 | 12400 | 12400 | 12350 | 12350 | 12150 | 11750  | 11400  | 10850                            | 10750  |        |        |        |        |        |        |        |        |
|                        | (3.4)                                                         | 17    | 28    | 34    | 39    | 43    | 47    | 49    | 52    | 54    | 56    | 58    | 59    | 61    | 62     | 63     | 65                               | 65     |        |        |        |        |        |        |        |        |
| 4.0                    |                                                               | 11450 | 10800 | 10750 | 10750 | 10750 | 10700 | 10700 | 10700 | 10650 | 10650 | 10650 | 10600 | 10600 | 10600  | 10600  | 10100                            | 10050  | 9850   | 9650   |        |        |        |        |        |        |
|                        |                                                               | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    | 48    | 51    | 53    | 55    | 56    | 58    | 59     | 61     | 62                               | 63     | 64     | 65     |        |        |        |        |        |        |
| 5.0                    |                                                               |       | 9900  | 8700  | 8300  | 8300  | 8300  | 8250  | 8250  | 8250  | 8250  | 8200  | 8200  | 8200  | 8200   | 8150   | 8200                             | 8200   | 8250   | 8300   | 8250   | 8150   | 8000   | 7900   |        |        |
|                        |                                                               |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    | 40    | 43    | 46    | 48    | 50    | 52    | 54     | 56     | 58                               | 58     | 59     | 61     | 62     | 63     | 63     | 64     | 65     |        |
| 6.0                    |                                                               |       |       |       | 7700  | 6900  | 6650  | 6650  | 6650  | 6600  | 6600  | 6600  | 6600  | 6600  | 6600   | 6550   | 6550                             | 6550   | 6600   | 6650   | 6700   | 6750   | 6750   | 6800   | 6800   | 6850   |
|                        |                                                               |       |       |       | (5.3) | (5.8) | 15    | 24    | 30    | 34    | 38    | 41    | 44    | 46    | 48     | 50     | 53                               | 53     | 55     | 56     | 57     | 58     | 60     | 61     | 61     | 62     |
| 7.0                    |                                                               |       |       |       |       |       | 6250  | 5650  | 5450  | 5450  | 5450  | 5450  | 5400  | 5400  | 5400   | 5400   | 5400                             | 5400   | 5450   | 5500   | 5550   | 5550   | 5600   | 5650   | 5650   | 5700   |
|                        |                                                               |       |       |       |       |       | (6.3) | (6.8) | 14    | 23    | 28    | 33    | 36    | 39    | 42     | 44     | 48                               | 48     | 50     | 52     | 53     | 54     | 56     | 57     | 58     | 59     |
| 8.0                    |                                                               |       |       |       |       |       |       |       | 5150  | 4700  | 4550  | 4550  | 4550  | 4550  | 4550   | 4550   | 4550                             | 4550   | 4600   | 4650   | 4650   | 4700   | 4750   | 4750   | 4800   | 4800   |
|                        |                                                               |       |       |       |       |       |       |       | (7.3) | (7.8) | 13    | 22    | 27    | 31    | 35     | 38     | 42                               | 43     | 45     | 47     | 48     | 50     | 51     | 53     | 54     | 55     |
| 9.0                    |                                                               |       |       |       |       |       |       |       |       |       | 4350  | 4000  | 3900  | 3900  | 3900   | 3900   | 3850                             | 3900   | 3900   | 3950   | 4000   | 4050   | 4050   | 4100   | 4100   | 4150   |
|                        |                                                               |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 26     | 30     | 35                               | 36     | 39     | 41     | 43     | 45     | 47     | 48     | 50     | 51     |
| 10                     |                                                               |       |       |       |       |       |       |       |       |       |       |       | 3700  | 3400  | 3350   | 3350   | 3350                             | 3350   | 3400   | 3400   | 3450   | 3500   | 3500   | 3550   | 3550   | 3600   |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 20     | 28                               | 29     | 32     | 35     | 38     | 40     | 42     | 44     | 45     | 47     |
| 11                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       | 3200   | 2950   | 2900                             | 2900   | 2950   | 3000   | 3000   | 3050   | 3050   | 3100   | 3150   | 3150   |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 17                               | 19     | 24     | 28     | 31     | 34     | 37     | 39     | 41     | 42     |
| 12                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 2650                             | 2600   | 2550   | 2600   | 2650   | 2650   | 2700   | 2750   | 2750   | 2800   |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.6)                           | (11.8) | 12     | 19     | 23     | 27     | 30     | 33     | 36     | 37     |
| 13                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        | 2450   | 2350   | 2300   | 2350   | 2400   | 2400   | 2450   | 2450   |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        | (12.3) | (12.8) | 11     | 18     | 23     | 27     | 30     | 32     |
| 14                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        | 2200   | 2100   | 2100   | 2150   | 2150   | 2200   |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        | (13.3) | (13.8) | 11     | 18     | 22     | 25     |
| 15                     |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        | 2050   | 1950   | 1950   | 1950   |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        | (14.3) | (14.8) | 10     | 16     |
| 15.71                  |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        |        |        | 1850   | 1800   |
|                        |                                                               |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                                  |        |        |        |        |        |        |        | (15.3) | (15.7) |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD



## MAC-25 RHINO HOOK LOAD CHART - 10 DEG

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**15000** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER  
SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).  
**15000** BOOM ANGLE - UNDEFLECTED (REF.)  
**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

ROBWAY DUTY **12**

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO HOOK CENTRE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |        |        |        |        |
|------------------------|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                        | 6.45                                                         | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00 | 14.65                            | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.50  | 18.75  |
| 1.4                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |
|                        | 51                                                           | 55    | 58    | 60    | 62    | 64    | 65    |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |
| 2.0                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |
|                        | 44                                                           | 49    | 52    | 55    | 57    | 59    | 61    | 63    | 64    | 65    |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |
| 2.5                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 14200 |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |
|                        | 37                                                           | 43    | 47    | 50    | 53    | 56    | 58    | 59    | 61    | 63    | 64    | 65    |       |        |        |       |                                  |        |        |        |        |        |        |        |        |        |
| 3.0                    | 15000                                                        | 15000 | 15000 | 15000 | 14950 | 14900 | 14900 | 14850 | 14850 | 14800 | 14800 | 13200 | 12750 | 12300  |        |       |                                  |        |        |        |        |        |        |        |        |        |
|                        | 29                                                           | 36    | 41    | 45    | 49    | 52    | 54    | 56    | 58    | 60    | 61    | 62    | 64    | 65     |        |       |                                  |        |        |        |        |        |        |        |        |        |
| 3.5                    | 12700                                                        | 12700 | 12650 | 12650 | 12600 | 12600 | 12550 | 12550 | 12500 | 12500 | 12300 | 11850 | 11450 | 11150  | 10800  |       |                                  |        |        |        |        |        |        |        |        |        |
|                        | 17                                                           | 29    | 35    | 40    | 44    | 47    | 50    | 52    | 55    | 56    | 58    | 60    | 61    | 62     | 63     | 64    |                                  |        |        |        |        |        |        |        |        |        |
| 4.0                    | 11750                                                        | 10900 | 10900 | 10900 | 10850 | 10850 | 10800 | 10800 | 10800 | 10750 | 10750 | 10750 | 10700 | 10700  | 10400  | 10100 | 9750                             | 9600   | 9450   |        |        |        |        |        |        |        |
|                        | (3.7)                                                        | 18    | 28    | 34    | 39    | 43    | 46    | 49    | 51    | 53    | 55    | 57    | 58    | 60     | 61     | 62    | 63                               | 64     | 65     |        |        |        |        |        |        |        |
| 5.0                    |                                                              | 10050 | 8800  | 8400  | 8400  | 8400  | 8350  | 8350  | 8350  | 8300  | 8300  | 8300  | 8250  | 8250   | 8250   | 8250  | 8250                             | 8250   | 8300   | 8200   | 8050   | 7900   | 7800   | 7700   |        |        |
|                        |                                                              | (4.3) | (4.8) | 16    | 26    | 32    | 37    | 40    | 44    | 46    | 49    | 51    | 53    | 54     | 56     | 57    | 59                               | 60     | 61     | 62     | 63     | 64     | 65     | 65     |        |        |
| 6.0                    |                                                              |       |       | 7800  | 7000  | 6750  | 6700  | 6700  | 6700  | 6700  | 6700  | 6650  | 6650  | 6650   | 6650   | 6600  | 6650                             | 6700   | 6700   | 6750   | 6800   | 6800   | 6850   | 6800   | 6650   |        |
|                        |                                                              |       |       | (5.3) | (5.8) | 15    | 24    | 30    | 35    | 38    | 42    | 44    | 47    | 49     | 51     | 52    | 54                               | 55     | 57     | 58     | 59     | 60     | 61     | 62     | 63     | 63     |
| 7.0                    |                                                              |       |       |       |       | 6300  | 5750  | 5550  | 5550  | 5500  | 5500  | 5500  | 5500  | 5500   | 5450   | 5450  | 5500                             | 5550   | 5550   | 5600   | 5650   | 5650   | 5700   | 5700   | 5700   |        |
|                        |                                                              |       |       |       |       | (6.3) | (6.8) | 15    | 23    | 29    | 33    | 37    | 40    | 42     | 45     | 47    | 49                               | 50     | 52     | 53     | 55     | 56     | 57     | 58     | 59     | 60     |
| 8.0                    |                                                              |       |       |       |       |       |       | 5200  | 4800  | 4650  | 4650  | 4650  | 4600  | 4600   | 4600   | 4600  | 4600                             | 4600   | 4650   | 4700   | 4700   | 4750   | 4800   | 4800   | 4850   | 4850   |
|                        |                                                              |       |       |       |       |       |       | (7.3) | (7.8) | 14    | 22    | 28    | 32    | 35     | 38     | 41    | 44                               | 45     | 47     | 49     | 50     | 52     | 53     | 54     | 55     | 56     |
| 9.0                    |                                                              |       |       |       |       |       |       |       |       |       | 4400  | 4050  | 3950  | 3950   | 3950   | 3900  | 3900                             | 3950   | 4000   | 4000   | 4050   | 4050   | 4100   | 4150   | 4150   | 4150   |
|                        |                                                              |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21     | 27     | 31    | 34                               | 38     | 39     | 42     | 44     | 46     | 47     | 49     | 51     | 52     |
| 10                     |                                                              |       |       |       |       |       |       |       |       |       |       | 3750  | 3450  | 3350   | 3350   | 3350  | 3350                             | 3400   | 3450   | 3450   | 3500   | 3550   | 3550   | 3600   | 3600   | 3600   |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 13     | 20     | 26    | 31                               | 33     | 36     | 38     | 40     | 42     | 44     | 46     | 47     | 48     |
| 11                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       | 3200   | 3000   | 2900  | 2900                             | 2950   | 3000   | 3000   | 3050   | 3100   | 3100   | 3150   | 3150   | 3150   |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 12    | 21                               | 25     | 29     | 32     | 35     | 37     | 39     | 41     | 43     | 44     |
| 12                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 2800  | 2550                             | 2550   | 2600   | 2650   | 2700   | 2700   | 2750   | 2800   | 2800   | 2800   |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  | (11.3) | (11.9) | 12     | 19     | 24     | 28     | 31     | 34     | 36     |
| 13                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        | 2450   | 2350   | 2300   | 2350   | 2400   | 2400   | 2450   |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        | (12.3) | (12.8) | 12     | 18     | 23     | 27     | 30     |
| 14                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        | 2200   | 2100   | 2100   | 2150   | 2200   |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        | (13.3) | (13.8) | 11     | 18     | 23     |
| 15                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        | 2000   | 1950   | 1950   |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        | (14.3) | (14.8) | 11     |
| 16                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        | 1850   |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |                                  |        |        |        |        |        |        |        |        | (15.3) |

**NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD**

## MAC-25 RHINO HOOK LOAD CHART - 40 DEG

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**15000** S.W.L IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).  
**15000** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

ROBWAY DUTY **12**

| Radius<br>in<br>Metres | BOOM PIVOT TO HOOK CENTRE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |        |        |        |       |
|------------------------|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|                        | 6.45                                                         | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.65                            | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.50  | 18.75 |
| 1.4                    | 15000                                                        | 15000 | 15000 | 15000 | 15000 | 14500 | 13800 |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |        |        |        |        |       |
|                        | 51                                                           | 55    | 58    | 60    | 62    | 64    | 65    |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |        |        |        |        |       |
| 2.0                    | 15000                                                        | 15000 | 15000 | 15000 | 14200 | 13400 | 12700 | 12100 | 11550 | 11050 |       |       |       |        |        |        |                                  |        |        |        |        |        |        |        |        |       |
|                        | 44                                                           | 49    | 52    | 55    | 57    | 59    | 61    | 63    | 64    | 65    |       |       |       |        |        |        |                                  |        |        |        |        |        |        |        |        |       |
| 2.5                    | 15000                                                        | 15000 | 14850 | 14050 | 13300 | 12500 | 11850 | 11250 | 10750 | 10300 | 9850  | 9500  |       |        |        |        |                                  |        |        |        |        |        |        |        |        |       |
|                        | 37                                                           | 43    | 47    | 50    | 53    | 56    | 58    | 59    | 61    | 63    | 64    | 65    |       |        |        |        |                                  |        |        |        |        |        |        |        |        |       |
| 3.0                    | 13500                                                        | 13450 | 13400 | 12650 | 12050 | 11500 | 11050 | 10500 | 10000 | 9550  | 9150  | 8800  | 8500  | 8200   |        |        |                                  |        |        |        |        |        |        |        |        |       |
|                        | 29                                                           | 36    | 41    | 45    | 49    | 52    | 54    | 56    | 58    | 60    | 61    | 62    | 64    | 65     |        |        |                                  |        |        |        |        |        |        |        |        |       |
| 3.5                    | 11350                                                        | 11300 | 11300 | 11250 | 10900 | 10400 | 10000 | 9600  | 9300  | 8900  | 8550  | 8200  | 7900  | 7650   | 7400   | 7150   |                                  |        |        |        |        |        |        |        |        |       |
|                        | 17                                                           | 29    | 35    | 40    | 44    | 47    | 50    | 52    | 55    | 56    | 58    | 60    | 61    | 62     | 63     | 64     |                                  |        |        |        |        |        |        |        |        |       |
| 4.0                    | 10450                                                        | 9700  | 9700  | 9700  | 9650  | 9500  | 9100  | 8750  | 8450  | 8200  | 7900  | 7650  | 7350  | 7100   | 6900   | 6650   | 6400                             | 6300   | 6200   |        |        |        |        |        |        |       |
|                        | (3.7)                                                        | 18    | 28    | 34    | 39    | 43    | 46    | 49    | 51    | 53    | 55    | 57    | 58    | 60     | 61     | 62     | 63                               | 64     | 65     |        |        |        |        |        |        |       |
| 5.0                    |                                                              | 8900  | 7800  | 7450  | 7450  | 7400  | 7400  | 7150  | 6900  | 6700  | 6500  | 6300  | 6150  | 6000   | 5800   | 5600   | 5500                             | 5400   | 5300   | 5200   | 5150   | 5050   | 4950   |        |        |       |
|                        |                                                              | (4.3) | (4.8) | 16    | 26    | 32    | 37    | 40    | 44    | 46    | 49    | 51    | 53    | 54     | 56     | 57     | 59                               | 60     | 61     | 62     | 63     | 64     | 65     | 65     |        |       |
| 6.0                    |                                                              |       |       | 6900  | 6150  | 5900  | 5900  | 5900  | 5900  | 5900  | 5750  | 5600  | 5450  | 5300   | 5150   | 5000   | 4850                             | 4850   | 4750   | 4700   | 4600   | 4550   | 4450   | 4400   | 4350   | 4300  |
|                        |                                                              |       |       | (5.3) | (5.8) | 15    | 24    | 30    | 35    | 38    | 42    | 44    | 47    | 49     | 51     | 52     | 54                               | 55     | 57     | 58     | 59     | 60     | 61     | 62     | 63     | 63    |
| 7.0                    |                                                              |       |       |       |       | 5550  | 5000  | 4850  | 4850  | 4850  | 4800  | 4750  | 4600  | 4500   | 4350   | 4250   | 4200                             | 4150   | 4100   | 4050   | 4000   | 4000   | 3900   | 3850   | 3850   |       |
|                        |                                                              |       |       |       |       | (6.3) | (6.8) | 15    | 23    | 29    | 33    | 37    | 40    | 42     | 45     | 47     | 49                               | 50     | 52     | 53     | 55     | 56     | 57     | 58     | 59     | 60    |
| 8.0                    |                                                              |       |       |       |       |       |       | 4550  | 4150  | 4000  | 4000  | 4000  | 4000  | 4000   | 3950   | 3850   | 3750                             | 3700   | 3650   | 3650   | 3600   | 3550   | 3500   | 3500   | 3450   | 3450  |
|                        |                                                              |       |       |       |       |       |       | (7.3) | (7.8) | 14    | 22    | 28    | 32    | 35     | 38     | 41     | 44                               | 45     | 47     | 49     | 50     | 52     | 53     | 54     | 55     | 56    |
| 9.0                    |                                                              |       |       |       |       |       |       |       |       | 3800  | 3500  | 3400  | 3400  | 3400   | 3400   | 3300   | 3300                             | 3300   | 3250   | 3250   | 3200   | 3150   | 3100   | 3100   | 3050   |       |
|                        |                                                              |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 27     | 31     | 34     | 38                               | 39     | 42     | 44     | 46     | 47     | 49     | 50     | 51     | 52    |
| 10                     |                                                              |       |       |       |       |       |       |       |       |       |       | 3200  | 2950  | 2900   | 2900   | 2900   | 2900                             | 2900   | 2950   | 2900   | 2850   | 2850   | 2800   | 2800   | 2750   | 2750  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 13     | 20     | 26     | 31                               | 33     | 36     | 38     | 40     | 42     | 44     | 46     | 47     | 48    |
| 11                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       | 2750   | 2550   | 2450   | 2500                             | 2500   | 2550   | 2600   | 2600   | 2550   | 2550   | 2500   | 2500   |       |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 12     | 21                               | 25     | 29     | 32     | 35     | 37     | 39     | 41     | 43     | 44    |
| 12                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 2350   | 2150                             | 2150   | 2200   | 2250   | 2250   | 2300   | 2300   | 2300   | 2300   | 2250  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.3) | (11.9)                           | 12     | 19     | 24     | 28     | 31     | 34     | 36     | 38     | 39    |
| 13                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  | 2050   | 1950   | 1950   | 2000   | 2000   | 2050   | 2050   | 2100   | 2100  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  | (12.3) | (12.8) | 12     | 18     | 23     | 27     | 30     | 33     | 34    |
| 14                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        | 1850   | 1750   | 1750   | 1800   | 1800   | 1850   | 1850  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        | (13.3) | (13.8) | 11     | 18     | 23     | 26     | 28    |
| 15                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        | 1700   | 1600   | 1600   | 1650   | 1650  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        | (14.3) | (14.8) | 11     | 17     | 20    |
| 16                     |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |        |        | 1550   | 1450   | 1450  |
|                        |                                                              |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |        |        | (15.3) | (15.8) | (16.) |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD



## MAC-25 OFFSET HEAD BOTTOM POSITION LOAD CHART - 10 DEG

ROBWAY DUTY **13**

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).  
**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)  
**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH  
 - S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL  
 S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES  
 LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |                                                    |        |        |        |        |
|------------------------|-----------------------------------------------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|----------------------------------------------------|--------|--------|--------|--------|
|                        | 6.88                                                            | 7.00  | 7.50 | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.08                            | 15.50  | 16.00  | 16.50  | 17.00                                              | 17.50  | 18.00  | 18.50  | 19.16  |
| 1.4                    | 8400                                                            | 8400  | 8400 | 8400  | 8400  | 8400  |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |                                                    |        |        |        |        |
|                        | 55                                                              | 56    | 59   | 61    | 63    | 65    |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |                                                    |        |        |        |        |
| 2.0                    | 8400                                                            | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |       |        |        |        |        |                                  |        |        |        | WINCH S.W.L.<br>SINGLE PART 4200<br>TWO PARTS 8400 |        |        |        |        |
|                        | 49                                                              | 50    | 53   | 56    | 58    | 60    | 62    | 64    | 65    |       |       |       |       |        |        |        |        |                                  |        |        |        |                                                    |        |        |        |        |
| 2.5                    | 8400                                                            | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |        |        |        |        |                                  |        |        |        |                                                    |        |        |        |        |
|                        | 43                                                              | 44    | 48   | 51    | 54    | 56    | 58    | 60    | 62    | 63    | 65    |       |       |        |        |        |        |                                  |        |        |        |                                                    |        |        |        |        |
| 3.0                    | 8400                                                            | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |        |        |        |        |                                  |        |        |        |                                                    |        |        |        |        |
|                        | 36                                                              | 38    | 43   | 46    | 50    | 52    | 55    | 57    | 59    | 60    | 62    | 63    | 64    | 65     |        |        |        |                                  |        |        |        |                                                    |        |        |        |        |
| 3.5                    | 8400                                                            | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400   |        |                                  |        |        |        |                                                    |        |        |        |        |
|                        | 27                                                              | 30    | 36   | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 60    | 62    | 63     | 64     | 65     |        |                                  |        |        |        |                                                    |        |        |        |        |
| 4.0                    | 8400                                                            | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400   | 8400   | 8400                             |        |        |        |                                                    |        |        |        |        |
|                        | (4.2)                                                           | 19    | 29   | 35    | 40    | 44    | 47    | 50    | 52    | 54    | 56    | 58    | 59    | 60     | 62     | 63     | 64     | 65                               |        |        |        |                                                    |        |        |        |        |
| 5.0                    |                                                                 | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8350   | 8350   | 8350   | 8350                             | 8350   | 8350   | 8250   | 8100                                               | 8000   |        |        |        |
|                        | (4.3)                                                           | (4.8) | 18   | 27    | 33    | 38    | 41    | 44    | 47    | 49    | 52    | 53    | 55    | 57     | 58     | 59     | 61     | 61                               | 62     | 63     | 64     | 65                                                 |        |        |        |        |
| 6.0                    |                                                                 |       |      | 7950  | 7100  | 6850  | 6850  | 6800  | 6800  | 6800  | 6750  | 6750  | 6750  | 6750   | 6700   | 6700   | 6700   | 6700                             | 6750   | 6750   | 6800   | 6850                                               | 6850   | 6900   | 6500   | 5850   |
|                        |                                                                 |       |      | (5.3) | (5.8) | 17    | 25    | 31    | 36    | 39    | 42    | 45    | 47    | 49     | 51     | 53     | 54     | 56                               | 57     | 58     | 59     | 60                                                 | 61     | 62     | 63     | 64     |
| 7.0                    |                                                                 |       |      |       |       | 6400  | 5800  | 5650  | 5650  | 5600  | 5600  | 5600  | 5600  | 5550   | 5550   | 5550   | 5550   | 5550                             | 5550   | 5600   | 5650   | 5650                                               | 5700   | 5700   | 5750   | 5800   |
|                        |                                                                 |       |      |       |       | (6.3) | (6.8) | 16    | 24    | 30    | 34    | 37    | 40    | 43     | 45     | 47     | 49     | 51                               | 52     | 54     | 55     | 56                                                 | 57     | 59     | 59     | 61     |
| 8.0                    |                                                                 |       |      |       |       |       |       | 5300  | 4850  | 4700  | 4700  | 4700  | 4700  | 4700   | 4700   | 4700   | 4650   | 4650                             | 4700   | 4750   | 4750   | 4800                                               | 4800   | 4850   | 4850   | 4900   |
|                        |                                                                 |       |      |       |       |       |       | (7.3) | (7.8) | 15    | 23    | 28    | 33    | 36     | 39     | 41     | 44     | 46                               | 48     | 49     | 51     | 52                                                 | 53     | 55     | 56     | 57     |
| 9.0                    |                                                                 |       |      |       |       |       |       |       |       | 4450  | 4100  | 4000  | 4000  | 4000   | 4000   | 4000   | 4000   | 4000                             | 4000   | 4050   | 4050   | 4100                                               | 4150   | 4150   | 4200   | 4200   |
|                        |                                                                 |       |      |       |       |       |       |       |       | (8.3) | (8.8) | 14    | 22    | 27     | 31     | 35     | 37     | 40                               | 42     | 44     | 46     | 48                                                 | 49     | 51     | 52     | 53     |
| 10                     |                                                                 |       |      |       |       |       |       |       |       |       |       | 3800  | 3550  | 3450   | 3450   | 3450   | 3450   | 3450                             | 3450   | 3500   | 3550   | 3550                                               | 3600   | 3600   | 3650   | 3650   |
|                        |                                                                 |       |      |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 14     | 21     | 26     | 30     | 34                               | 36     | 39     | 41     | 43                                                 | 45     | 46     | 48     | 50     |
| 11                     |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       | 3300   | 3050   | 3000   | 3000   | 3000                             | 3000   | 3050   | 3100   | 3100                                               | 3150   | 3150   | 3200   | 3200   |
|                        |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 13     | 20     | 26                               | 29     | 32     | 35     | 37                                                 | 40     | 42     | 43     | 45     |
| 12                     |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        | 2850   | 2650   | 2600                             | 2650   | 2650   | 2700   | 2750                                               | 2750   | 2800   | 2800   | 2850   |
|                        |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        | (11.3) | (11.8) | 14                               | 20     | 24     | 28     | 31                                                 | 34     | 36     | 39     | 41     |
| 13                     |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        | 2450                             | 2350   | 2350   | 2350   | 2400                                               | 2450   | 2450   | 2500   | 2500   |
|                        |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        | (12.4)                           | (12.8) | 12     | 19     | 24                                                 | 27     | 30     | 33     | 36     |
| 14                     |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        | 2250   | 2150   | 2100                                               | 2150   | 2200   | 2200   | 2250   |
|                        |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        | (13.3) | (13.8) | 12                                                 | 18     | 23     | 27     | 30     |
| 15                     |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        | 2050                                               | 1950   | 1950   | 1950   | 2000   |
|                        |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        | (14.3)                                             | (14.8) | 12     | 18     | 24     |
| 16.4                   |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |                                                    |        | 1850   | 1800   | 1700   |
|                        |                                                                 |       |      |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |                                                    |        | (15.3) | (15.8) | (16.4) |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

## MAC-25 OFFSET HEAD BOTTOM POSITION LOAD CHART - 40 DEG

ROBWAY DUTY **13**

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).

**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |              |        |        |        |        |
|------------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|
|                        | 6.86                                                            | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50                            | 15.06  | 15.50  | 16.00  | 16.50  | 17.00        | 17.50  | 18.00  | 18.50  | 19.16  |
| 1.4                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |              |        |        |        |        |
|                        | 55                                                              | 56    | 59    | 61    | 63    | 65    |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |              |        |        |        |        |
| 2.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |       |        |        |        |                                  |        |        |        |        | WINCH S.W.L. |        |        |        |        |
|                        | 49                                                              | 50    | 53    | 56    | 58    | 60    | 62    | 64    | 65    |       |       |       |       |        |        |        |                                  |        |        |        |        | SINGLE PART  |        | 4200   |        |        |
| 2.5                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |        |        |        |                                  |        |        |        |        | TWO PARTS    |        | 8400   |        |        |
|                        | 43                                                              | 44    | 48    | 51    | 54    | 56    | 58    | 60    | 62    | 63    | 65    |       |       |        |        |        |                                  |        |        |        |        |              |        |        |        |        |
| 3.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8300   |        |        |                                  |        |        |        |        |              |        |        |        |        |
|                        | 36                                                              | 38    | 43    | 46    | 50    | 52    | 55    | 57    | 59    | 60    | 62    | 63    | 64    | 65     |        |        |                                  |        |        |        |        |              |        |        |        |        |
| 3.5                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8300  | 8000  | 7750   | 7500   | 7250   |                                  |        |        |        |        |              |        |        |        |        |
|                        | 27                                                              | 30    | 36    | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 60    | 62    | 63     | 64     | 65     |                                  |        |        |        |        |              |        |        |        |        |
| 4.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8300  | 8050  | 7750  | 7450  | 7200   | 7000   | 6750   | 6550                             | 6350   |        |        |        |              |        |        |        |        |
|                        | (4.2)                                                           | 19    | 29    | 35    | 40    | 44    | 47    | 50    | 52    | 54    | 56    | 58    | 59    | 60     | 62     | 63     | 64                               | 65     |        |        |        |              |        |        |        |        |
| 5.0                    |                                                                 | 8400  | 7950  | 7600  | 7550  | 7550  | 7500  | 7300  | 7050  | 6800  | 6600  | 6400  | 6250  | 6100   | 5900   | 5750   | 5550                             | 5450   | 5350   | 5250   | 5150   | 5050         |        |        |        |        |
|                        |                                                                 | (4.3) | (4.8) | 18    | 27    | 33    | 38    | 41    | 44    | 47    | 49    | 52    | 53    | 55     | 57     | 58     | 59                               | 61     | 61     | 62     | 63     | 64           | 65     |        |        |        |
| 6.0                    |                                                                 |       |       | 7050  | 6300  | 6050  | 6050  | 6000  | 6000  | 6000  | 5900  | 5700  | 5550  | 5350   | 5250   | 5100   | 5000                             | 4850   | 4800   | 4700   | 4650   | 4550         | 4500   | 4450   | 4350   | 4300   |
|                        |                                                                 |       |       | (5.3) | (5.8) | 17    | 25    | 31    | 36    | 39    | 42    | 45    | 47    | 49     | 51     | 53     | 54                               | 56     | 57     | 58     | 59     | 60           | 61     | 62     | 63     | 64     |
| 7.0                    |                                                                 |       |       |       |       | 5650  | 5100  | 4950  | 4950  | 4950  | 4900  | 4900  | 4850  | 4700   | 4550   | 4450   | 4350                             | 4250   | 4200   | 4150   | 4100   | 4050         | 4000   | 3950   | 3900   | 3850   |
|                        |                                                                 |       |       |       |       | (6.3) | (6.8) | 16    | 24    | 30    | 34    | 37    | 40    | 43     | 45     | 47     | 49                               | 51     | 52     | 54     | 55     | 56           | 57     | 59     | 59     | 61     |
| 8.0                    |                                                                 |       |       |       |       |       |       | 4650  | 4250  | 4100  | 4100  | 4100  | 4100  | 4050   | 3950   | 3850   | 3750                             | 3700   | 3650   | 3600   | 3600   | 3550         | 3500   | 3500   | 3450   |        |
|                        |                                                                 |       |       |       |       |       |       | (7.3) | (7.8) | 15    | 23    | 28    | 33    | 36     | 39     | 41     | 44                               | 46     | 48     | 49     | 51     | 52           | 53     | 55     | 56     | 57     |
| 9.0                    |                                                                 |       |       |       |       |       |       |       |       | 3900  | 3550  | 3450  | 3450  | 3450   | 3450   | 3400   | 3300                             | 3300   | 3250   | 3200   | 3200   | 3150         | 3150   | 3100   | 3050   |        |
|                        |                                                                 |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 14    | 22    | 27     | 31     | 35     | 37                               | 40     | 42     | 44     | 46     | 48           | 49     | 51     | 52     | 53     |
| 10                     |                                                                 |       |       |       |       |       |       |       |       |       |       | 3300  | 3050  | 2950   | 2950   | 2950   | 2950                             | 2950   | 2950   | 2900   | 2900   | 2850         | 2850   | 2800   | 2800   | 2750   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 14     | 21     | 26     | 30                               | 34     | 36     | 39     | 41     | 43           | 45     | 46     | 48     | 50     |
| 11                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       | 2800   | 2600   | 2550   | 2550                             | 2550   | 2550   | 2600   | 2600   | 2600         | 2550   | 2550   | 2550   | 2500   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 13     | 20                               | 26     | 29     | 32     | 35     | 37           | 40     | 42     | 43     | 45     |
| 12                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 2400   | 2250                             | 2200   | 2200   | 2250   | 2300   | 2300         | 2350   | 2300   | 2300   | 2300   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.3) | (11.8)                           | 14     | 20     | 24     | 28     | 31           | 34     | 36     | 39     | 41     |
| 13                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  | 2050   | 1950   | 1950   | 2000   | 2050         | 2050   | 2100   | 2100   | 2100   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  | (12.4) | (12.8) | 12     | 19     | 24           | 27     | 30     | 33     | 36     |
| 14                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        | 1850   | 1800   | 1800         | 1800   | 1850   | 1850   | 1900   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        | (13.3) | (13.8) | 12           | 18     | 23     | 27     | 30     |
| 15                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        | 1700         | 1600   | 1600   | 1650   | 1700   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        | (14.3)       | (14.8) | 12     | 18     | 24     |
| 16.4                   |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |              |        | 1550   | 1500   | 1400   |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |                                  |        |        |        |        |              |        | (15.3) | (15.8) | (16.4) |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 OFFSET HEAD TOP POSITION LOAD CHART - 10 DEG

ROBWAY DUTY **14**

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).  
**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |              |        |        |        |       |
|------------------------|-----------------------------------------------------------------|-------|-------|-------------------------------------------------------------------------------------------------------------|-------|-------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|--------------|--------|--------|--------|-------|
|                        | 6.82                                                            | 7.00  | 7.50  | 8.00                                                                                                        | 8.50  | 9.00  | 9.50 | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50  | 13.00  | 13.50  | 14.00  | 14.50  | 15.02                            | 15.50  | 16.00  | 16.50  | 17.00        | 17.50  | 18.00  | 18.50  | 19.12 |
| 1.4                    | 8400                                                            | 8400  | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400 |       |       |       |       |       |        |        |        |        |        |                                  |        |        |        |              |        |        |        |       |
|                        | 52                                                              | 53    | 56    | 58                                                                                                          | 60    | 62    | 64   |       |       |       |       |       |        |        |        |        |        |                                  |        |        |        |              |        |        |        |       |
| 2.0                    | 8400                                                            | 8400  | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  |       |       |        |        |        |        |        |                                  |        |        |        | WINCH S.W.L. |        |        |        |       |
|                        | 45                                                              | 47    | 50    | 53                                                                                                          | 56    | 58    | 60   | 61    | 63    | 64    |       |       |        |        |        |        |        |                                  |        |        |        | SINGLE PART  |        | 4200   |        |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        |        |        |                                  |        |        |        | TWO PARTS    |        | 8400   |        |       |
| 2.5                    | 8400                                                            | 8400  | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  |        |        |        |        |        |                                  |        |        |        |              |        |        |        |       |
|                        | 39                                                              | 41    | 45    | 49                                                                                                          | 52    | 54    | 56   | 58    | 60    | 61    | 63    | 64    |        |        |        |        |        |                                  |        |        |        |              |        |        |        |       |
| 3.0                    | 8400                                                            | 8400  | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400   |        |        |                                  |        |        |        |              |        |        |        |       |
|                        | 32                                                              | 34    | 40    | 44                                                                                                          | 47    | 50    | 53   | 55    | 57    | 58    | 60    | 61    | 63     | 64     | 65     |        |        |                                  |        |        |        |              |        |        |        |       |
| 3.5                    | 8400                                                            | 8400  | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400   | 8400   | 8400   |                                  |        |        |        |              |        |        |        |       |
|                        | 24                                                              | 27    | 33    | 38                                                                                                          | 42    | 46    | 49   | 51    | 53    | 55    | 57    | 59    | 60     | 61     | 62     | 63     | 64     |                                  |        |        |        |              |        |        |        |       |
| 4.0                    | 8400                                                            | 8400  | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8400  | 8400  | 8400  | 8400   | 8400   | 8400   | 8400   | 8400   | 8400                             | 8400   | 8400   |        |              |        |        |        |       |
|                        | (4.1)                                                           | 16    | 26    | 32                                                                                                          | 37    | 41    | 45   | 47    | 50    | 52    | 54    | 56    | 57     | 59     | 60     | 61     | 62     | 63                               | 64     |        |        |              |        |        |        |       |
| 5.0                    |                                                                 | 8400  | 8400  | 8400                                                                                                        | 8400  | 8400  | 8400 | 8400  | 8400  | 8350  | 8350  | 8300  | 8300   | 8250   | 8250   | 8250   | 8250   | 8250                             | 8250   | 8300   | 8300   | 8200         | 8050   | 7950   |        |       |
|                        |                                                                 | (4.3) | (4.8) | 15                                                                                                          | 24    | 30    | 35   | 39    | 42    | 45    | 48    | 50    | 52     | 53     | 55     | 56     | 58     | 59                               | 60     | 61     | 62     | 63           | 64     | 65     |        |       |
| 6.0                    |                                                                 |       |       | 7950                                                                                                        | 7100  | 6800  | 6800 | 6800  | 6750  | 6750  | 6700  | 6700  | 6700   | 6650   | 6650   | 6650   | 6600   | 6650                             | 6700   | 6750   | 6750   | 6800         | 6800   | 6850   | 6300   |       |
|                        |                                                                 |       |       | (5.3)                                                                                                       | (5.8) | 14    | 23   | 29    | 34    | 37    | 40    | 43    | 46     | 48     | 50     | 51     | 53     | 54                               | 56     | 57     | 58     | 59           | 60     | 61     | 62     | 63    |
| 7.0                    |                                                                 |       |       |                                                                                                             | 6400  | 5800  | 5600 | 5600  | 5550  | 5550  | 5550  | 5500  | 5500   | 5500   | 5500   | 5450   | 5500   | 5550                             | 5550   | 5600   | 5650   | 5650         | 5700   | 5700   |        |       |
|                        |                                                                 |       |       |                                                                                                             | (6.3) | (6.8) | 14   | 22    | 28    | 32    | 36    | 39    | 41     | 44     | 46     | 48     | 50     | 51                               | 53     | 54     | 55     | 56           | 57     | 58     | 59     |       |
| 8.0                    |                                                                 |       |       |                                                                                                             |       |       |      | 5300  | 4850  | 4700  | 4700  | 4650  | 4650   | 4650   | 4650   | 4600   | 4600   | 4650                             | 4700   | 4700   | 4750   | 4750         | 4800   | 4800   | 4850   |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      | (7.3) | (7.8) | 13    | 21    | 27    | 31     | 34     | 37     | 40     | 42     | 44                               | 46     | 48     | 49     | 51           | 52     | 53     | 55     | 56    |
| 9.0                    |                                                                 |       |       |                                                                                                             |       |       |      |       | 4450  | 4100  | 4000  | 4000  | 3950   | 3950   | 3950   | 3950   | 3950   | 3950                             | 4000   | 4050   | 4050   | 4100         | 4100   | 4150   | 4150   |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      |       | (8.3) | (8.8) | 12    | 20    | 25     | 30     | 33     | 36     | 39     | 41                               | 43     | 45     | 46     | 48           | 49     | 51     | 52     |       |
| 10                     |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       | 3800  | 3500  | 3400   | 3400   | 3400   | 3400   | 3400   | 3450                             | 3450   | 3500   | 3500   | 3550         | 3550   | 3600   | 3650   |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       | (9.3) | (9.8) | 12     | 19     | 25     | 29     | 32     | 35                               | 37     | 40     | 42     | 43           | 45     | 47     | 48     |       |
| 11                     |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       | 3250   | 3050   | 2950   | 2950   | 2950   | 3000                             | 3000   | 3050   | 3100   | 3100         | 3150   | 3150   | 3200   |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       | (10.3) | (10.8) | 12     | 19     | 24     | 28                               | 31     | 34     | 36     | 38           | 40     | 42     | 44     |       |
| 12                     |                                                                 |       |       | NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER<br>LOAD HANDLING DEVICES SHALL BE ADDED<br>TO THE WEIGHT OF THE LOAD |       |       |      |       |       |       |       |       |        |        | 2850   | 2650   | 2550   | 2600                             | 2650   | 2700   | 2700   | 2750         | 2750   | 2800   | 2800   |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        | (11.3) | (11.8) | 12     | 18                               | 23     | 27     | 30     | 33           | 35     | 37     | 40     |       |
| 13                     |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        |        | 2450   | 2350                             | 2350   | 2400   | 2400   | 2450         | 2450   | 2500   | 2500   |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        | (12.3) | (12.8) | 11                               | 18     | 22     | 26     | 29           | 32     | 35     |        |       |
| 14                     |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        |        |        | (13.3)                           | (13.8) | 11     | 17     | 22           | 25     | 29     |        |       |
| 15                     |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        |        |        |                                  |        | 2050   | 1950   | 1950         | 1950   | 2000   | 2000   |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        |        |        |                                  |        | (14.3) | (14.8) | 10           | 17     | 22     |        |       |
| 16.45                  |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        |        |        |                                  |        |        |        |              | 1850   | 1800   | 1700   |       |
|                        |                                                                 |       |       |                                                                                                             |       |       |      |       |       |       |       |       |        |        |        |        |        |                                  |        |        |        |              | (15.3) | (15.8) | (16.5) |       |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

## MAC-25 OFFSET HEAD TOP POSITION LOAD CHART - 40 DEG

ROBWAY DUTY **14**

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**8400** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).

**8400** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 86.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |        |        |        |        |        |  |
|------------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|                        | 6.82                                                            | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.02                            | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.50  | 19.12  |  |
| 1.4                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |  |
|                        | 52                                                              | 53    | 56    | 58    | 60    | 62    | 64    |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |  |
| 2.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |       |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |  |
|                        | 45                                                              | 47    | 50    | 53    | 56    | 58    | 60    | 61    | 63    | 64    |       |       |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |  |
| 2.5                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |  |
|                        | 39                                                              | 41    | 45    | 49    | 52    | 54    | 56    | 58    | 60    | 61    | 63    | 64    |       |        |        |        |        |                                  |        |        |        |        |        |        |        |        |  |
| 3.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8250   | 7950   |        |        |                                  |        |        |        |        |        |        |        |        |  |
|                        | 32                                                              | 34    | 40    | 44    | 47    | 50    | 53    | 55    | 57    | 58    | 60    | 61    | 63    | 64     | 65     |        |        |                                  |        |        |        |        |        |        |        |        |  |
| 3.5                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8250  | 7950   | 7650   | 7400   | 7200   | 6950                             |        |        |        |        |        |        |        |        |  |
|                        | 24                                                              | 27    | 33    | 38    | 42    | 46    | 49    | 51    | 53    | 55    | 57    | 59    | 60    | 61     | 62     | 63     | 64     |                                  |        |        |        |        |        |        |        |        |  |
| 4.0                    | 8400                                                            | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8400  | 8250  | 7950  | 7700  | 7400  | 7150   | 6900   | 6700   | 6500   | 6300                             | 6150   |        |        |        |        |        |        |        |  |
|                        | (4.1)                                                           | 16    | 26    | 32    | 37    | 41    | 45    | 47    | 50    | 52    | 54    | 56    | 57    | 59     | 60     | 61     | 62     | 63                               | 64     |        |        |        |        |        |        |        |  |
| 5.0                    |                                                                 | 8400  | 7900  | 7550  | 7500  | 7500  | 7450  | 7450  | 7200  | 6950  | 6750  | 6550  | 6350  | 6200   | 6000   | 5850   | 5700   | 5500                             | 5400   | 5300   | 5200   | 5100   | 5050   | 4950   |        |        |  |
|                        |                                                                 | (4.3) | (4.8) | 15    | 24    | 30    | 35    | 39    | 42    | 45    | 48    | 50    | 52    | 53     | 55     | 56     | 58     | 59                               | 60     | 61     | 62     | 63     | 64     | 65     |        |        |  |
| 6.0                    |                                                                 |       |       | 7000  | 6250  | 6000  | 6000  | 5950  | 5950  | 5950  | 5850  | 5650  | 5450  | 5300   | 5200   | 5050   | 4950   | 4800                             | 4750   | 4700   | 4600   | 4550   | 4450   | 4400   | 4300   | 4250   |  |
|                        |                                                                 |       |       | (5.3) | (5.8) | 14    | 23    | 29    | 34    | 37    | 40    | 43    | 46    | 48     | 50     | 51     | 53     | 54                               | 56     | 57     | 58     | 59     | 60     | 61     | 62     | 63     |  |
| 7.0                    |                                                                 |       |       |       |       | 5650  | 5100  | 4900  | 4900  | 4900  | 4850  | 4800  | 4650  | 4550   | 4400   | 4300   | 4200   | 4150                             | 4100   | 4050   | 4000   | 3950   | 3900   | 3850   | 3800   |        |  |
|                        |                                                                 |       |       |       |       | (6.3) | (6.8) | 14    | 22    | 28    | 32    | 36    | 39    | 41     | 44     | 46     | 48     | 50                               | 51     | 53     | 54     | 55     | 56     | 57     | 58     | 59     |  |
| 8.0                    |                                                                 |       |       |       |       |       |       | 4650  | 4250  | 4100  | 4100  | 4050  | 4050  | 4050   | 4000   | 3900   | 3800   | 3700                             | 3650   | 3600   | 3600   | 3550   | 3500   | 3500   | 3450   | 3400   |  |
|                        |                                                                 |       |       |       |       |       |       | (7.3) | (7.8) | 13    | 21    | 27    | 31    | 34     | 37     | 40     | 42     | 44                               | 46     | 48     | 49     | 51     | 52     | 53     | 55     | 56     |  |
| 9.0                    |                                                                 |       |       |       |       |       |       |       |       | 3900  | 3550  | 3450  | 3450  | 3450   | 3400   | 3400   | 3300   | 3250                             | 3200   | 3200   | 3150   | 3150   | 3100   | 3100   | 3050   |        |  |
|                        |                                                                 |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 12    | 20    | 25     | 30     | 33     | 36     | 39                               | 41     | 43     | 45     | 46     | 48     | 49     | 51     | 52     |  |
| 10                     |                                                                 |       |       |       |       |       |       |       |       |       |       | 3300  | 3050  | 2950   | 2950   | 2900   | 2900   | 2950                             | 2900   | 2850   | 2850   | 2800   | 2800   | 2750   | 2750   |        |  |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 19     | 25     | 29     | 32                               | 35     | 37     | 40     | 42     | 43     | 45     | 47     | 48     |  |
| 11                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       | 2800   | 2600   | 2500   | 2500   | 2500                             | 2550   | 2600   | 2600   | 2550   | 2550   | 2550   | 2500   | 2500   |  |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 12     | 19     | 24                               | 28     | 31     | 34     | 36     | 38     | 40     | 42     | 44     |  |
| 12                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 2400   | 2250   | 2150                             | 2200   | 2250   | 2250   | 2300   | 2350   | 2300   | 2300   | 2250   |  |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.3) | (11.8) | 12                               | 18     | 23     | 27     | 30     | 33     | 35     | 37     | 40     |  |
| 13                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        | 2050                             | 1950   | 1950   | 2000   | 2000   | 2050   | 2050   | 2100   | 2050   |  |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        | (12.3)                           | (12.8) | 11     | 18     | 22     | 26     | 29     | 32     | 35     |  |
| 14                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        | 1850   | 1800   | 1750   | 1800   | 1800   | 1850   | 1900   |  |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        | (13.3) | (13.8) | 11     | 17     | 22     | 25     | 29     |  |
| 15                     |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        | 1700   | 1600   | 1600   | 1650   | 1650   |  |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        | (14.3) | (14.8) | 10     | 17     | 22     |  |
| 16.45                  |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |        |        | 1550   | 1500   | 1400   |  |
|                        |                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |                                  |        |        |        |        |        | (15.3) | (15.8) | (16.5) |  |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 4m FLYJIB BOTTOM POSITION LOAD CHART - 10 DEG

ROBWAY DUTY **15**

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).

**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)

**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |       |       |        |        |        |
|------------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|-------|-------|--------|--------|--------|
|                        | 10.11                                                           | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.31  | 19.00                            | 19.50  | 20.00  | 20.50  | 21.00 | 21.50 | 22.00  | 22.41  |        |
| 2.6                    | 700                                                             |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
|                        | 65                                                              |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
| 3.0                    | 700                                                             | 700   | 700   |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
|                        | 62                                                              | 64    | 65    |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
| 3.5                    | 600                                                             | 600   | 700   | 700   |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
|                        | 59                                                              | 60    | 62    | 63    | 65    |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
| 4.0                    | 600                                                             | 600   | 600   | 600   | 700   | 700   | 700    |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
|                        | 55                                                              | 57    | 59    | 60    | 62    | 63    | 64     | 65     |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
| 5.0                    | 600                                                             | 600   | 600   | 600   | 600   | 600   | 600    | 600    | 700    | 700    | 700    | 700    |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
|                        | 47                                                              | 49    | 52    | 54    | 56    | 58    | 59     | 60     | 62     | 63     | 64     | 65     |        |        |        |        |        |        |                                  |        |        |        |       |       |        |        |        |
| 6.0                    | 500                                                             | 600   | 600   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700    | 700    |        |                                  |        |        |        |       |       |        |        |        |
|                        | 38                                                              | 41    | 44    | 47    | 49    | 52    | 53     | 55     | 57     | 58     | 59     | 60     | 61     | 62     | 63     | 64     | 65     |        |                                  |        |        |        |       |       |        |        |        |
| 7.0                    | 500                                                             | 500   | 500   | 500   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700                              | 700    |        |        |       |       |        |        |        |
|                        | 24                                                              | 29    | 35    | 39    | 42    | 45    | 47     | 49     | 51     | 53     | 54     | 56     | 57     | 58     | 59     | 60     | 61     | 62     | 63                               | 64     | 65     | 65     |       |       |        |        |        |
| 8.0                    | 500                                                             | 500   | 500   | 500   | 500   | 500   | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600    | 600    |        |
|                        | (7.4)                                                           | (7.8) | 20    | 28    | 33    | 37    | 40     | 43     | 45     | 47     | 49     | 51     | 52     | 54     | 55     | 56     | 58     | 58     | 60                               | 60     | 61     | 62     | 63    | 64    | 64     | 65     |        |
| 9.0                    |                                                                 |       | 500   | 500   | 500   | 500   | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600    | 700    |        |
|                        |                                                                 |       | (8.3) | (8.8) | 19    | 26    | 31     | 35     | 38     | 41     | 44     | 46     | 47     | 49     | 51     | 52     | 53     | 54     | 56                               | 57     | 58     | 59     | 60    | 60    | 61     | 62     |        |
| 10.0                   |                                                                 |       |       |       | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600    | 600    |        |
|                        |                                                                 |       |       |       | (9.3) | (9.8) | 18     | 25     | 30     | 34     | 37     | 40     | 42     | 44     | 46     | 48     | 49     | 50     | 52                               | 53     | 54     | 55     | 56    | 57    | 58     | 59     |        |
| 11.0                   |                                                                 |       |       |       |       |       | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600    | 600    |        |
|                        |                                                                 |       |       |       |       |       | (10.3) | (10.8) | 17     | 24     | 29     | 33     | 36     | 38     | 41     | 43     | 44     | 46     | 48                               | 49     | 50     | 52     | 53    | 54    | 55     | 56     |        |
| 12                     |                                                                 |       |       |       |       |       |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600    | 600    |        |
|                        |                                                                 |       |       |       |       |       |        |        | (11.3) | (11.8) | 17     | 23     | 28     | 31     | 34     | 37     | 39     | 41     | 43                               | 45     | 46     | 48     | 49    | 50    | 51     | 52     |        |
| 13                     |                                                                 |       |       |       |       |       |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 600    | 600    | 600   | 600   | 600    | 600    |        |
|                        |                                                                 |       |       |       |       |       |        |        |        |        | (12.3) | (12.8) | 16     | 22     | 27     | 30     | 33     | 35     | 38                               | 40     | 42     | 44     | 45    | 47    | 48     | 49     |        |
| 14                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 600    | 600   | 600   | 600    | 600    |        |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        | (13.3) | (13.8) | 15     | 22     | 26     | 28     | 32                               | 35     | 37     | 39     | 41    | 42    | 44     | 45     |        |
| 15                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500    | 500   | 500   | 500    | 600    |        |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        | (14.3) | (14.8) | 15     | 19     | 25                               | 29     | 31     | 34     | 36    | 38    | 40     | 41     |        |
| 16                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        | 500    | 500    | 500                              | 500    | 500    | 500    | 500   | 500   | 500    | 500    |        |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        | (15.3) | (15.6) | 14                               | 20     | 24     | 28     | 31    | 33    | 35     | 37     |        |
| 18                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | 500                              | 500    | 500    | 500    | 500   | 500   | 500    | 500    |        |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | (16.3)                           | (16.8) | (17.3) | (17.8) | 14    | 19    | 23     | 26     |        |
| 19.7                   |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       | 500    | 500    | 500    |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       | (18.3) | (18.8) | (19.7) |

**NOTE:** WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD



## MAC-25 4m FLYJIB BOTTOM POSITION LOAD CHART - 40 DEG

ROBWAY DUTY **15**

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**700** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).  
**65** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |        |       |       |       |       |     |  |
|------------------------|-----------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|-------|-------|-------|-------|-----|--|
|                        | 10.11                                                           | 10.50 | 11.00                                                                                                       | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.31  | 19.00                            | 19.50  | 20.00  | 20.50  | 21.00 | 21.50 | 22.00 | 22.41 |     |  |
| 2.6                    | 700                                                             |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        | 65                                                              |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
| 3.0                    | 700                                                             | 700   | 700                                                                                                         |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        | 62                                                              | 64    | 65                                                                                                          |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
| 3.5                    | 600                                                             | 600   | 700                                                                                                         | 700   |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        | 59                                                              | 60    | 62                                                                                                          | 63    | 65    |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
| 4.0                    | 600                                                             | 600   | 600                                                                                                         | 600   | 700   | 700   | 700    |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        | 55                                                              | 57    | 59                                                                                                          | 60    | 62    | 63    | 64     | 65     |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
| 5.0                    | 600                                                             | 600   | 600                                                                                                         | 600   | 600   | 600   | 600    | 600    | 700    | 700    | 700    | 700    |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        | 47                                                              | 49    | 52                                                                                                          | 54    | 56    | 58    | 59     | 60     | 62     | 63     | 64     | 65     |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
| 6.0                    | 500                                                             | 600   | 600                                                                                                         | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700    | 700    |        |                                  |        |        |        |       |       |       |       |     |  |
|                        | 38                                                              | 41    | 44                                                                                                          | 47    | 49    | 52    | 53     | 55     | 57     | 58     | 59     | 60     | 61     | 62     | 63     | 64     | 65     |        |                                  |        |        |        |       |       |       |       |     |  |
| 7.0                    | 500                                                             | 500   | 500                                                                                                         | 500   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700                              | 700    |        |        |       |       |       |       |     |  |
|                        | 24                                                              | 29    | 35                                                                                                          | 39    | 42    | 45    | 47     | 49     | 51     | 53     | 54     | 56     | 57     | 58     | 59     | 60     | 61     | 62     | 63                               | 64     | 65     | 65     |       |       |       |       |     |  |
| 8.0                    | 500                                                             | 500   | 500                                                                                                         | 500   | 500   | 500   | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 700   | 700   | 700   | 700 |  |
|                        | (7.4)                                                           | (7.8) | 20                                                                                                          | 28    | 33    | 37    | 40     | 43     | 45     | 47     | 49     | 51     | 52     | 54     | 55     | 56     | 58     | 58     | 60                               | 60     | 61     | 62     | 63    | 64    | 64    | 65    | 65  |  |
| 9.0                    |                                                                 |       | 500                                                                                                         | 500   | 500   | 500   | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600   | 700   | 700 |  |
|                        |                                                                 |       | (8.3)                                                                                                       | (8.8) | 19    | 26    | 31     | 35     | 38     | 41     | 44     | 46     | 47     | 49     | 51     | 52     | 53     | 54     | 56                               | 57     | 58     | 59     | 60    | 60    | 61    | 62    | 62  |  |
| 10.0                   |                                                                 |       |                                                                                                             |       | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600   | 600   | 600 |  |
|                        |                                                                 |       |                                                                                                             |       | (9.3) | (9.8) | 18     | 25     | 30     | 34     | 37     | 40     | 42     | 44     | 46     | 48     | 49     | 50     | 52                               | 53     | 54     | 55     | 56    | 57    | 58    | 59    | 59  |  |
| 11.0                   |                                                                 |       |                                                                                                             |       |       |       | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600   | 600   | 600 |  |
|                        |                                                                 |       |                                                                                                             |       |       |       | (10.3) | (10.8) | 17     | 24     | 29     | 33     | 36     | 38     | 41     | 43     | 44     | 46     | 48                               | 49     | 50     | 52     | 53    | 54    | 55    | 56    | 56  |  |
| 12                     |                                                                 |       |                                                                                                             |       |       |       |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600                              | 600    | 600    | 600    | 600   | 600   | 600   | 600   | 600 |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        | (11.3) | (11.8) | 17     | 23     | 28     | 31     | 34     | 37     | 39     | 41     | 43                               | 45     | 46     | 48     | 49    | 50    | 51    | 52    | 52  |  |
| 13                     |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 600    | 600    | 600   | 600   | 600   | 600   | 600 |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        | (12.3) | (12.8) | 16     | 22     | 27     | 30     | 33     | 35     | 38                               | 40     | 42     | 44     | 45    | 47    | 48    | 49    | 49  |  |
| 14                     |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500    | 600   | 600   | 600   | 600   | 600 |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        | (13.3) | (13.8) | 15     | 22     | 26     | 28     | 32                               | 35     | 37     | 39     | 41    | 42    | 44    | 45    | 45  |  |
| 15                     |                                                                 |       | NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER<br>LOAD HANDLING DEVICES SHALL BE ADDED<br>TO THE WEIGHT OF THE LOAD |       |       |       |        |        |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500    | 500   | 500   | 500   | 500   | 600 |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        | (14.3) | (14.8) | 15     | 19     | 25                               | 29     | 31     | 34     | 36    | 38    | 40    | 41    | 41  |  |
| 16                     |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        | 500    | 500    | 500                              | 500    | 500    | 500    | 500   | 500   | 500   | 500   | 500 |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        | (15.3) | (15.6) | 14                               | 20     | 24     | 28     | 31    | 33    | 35    | 37    | 37  |  |
| 18                     |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | 500                              | 500    | 500    | 500    | 500   | 500   | 500   | 500   | 500 |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | (16.3)                           | (16.8) | (17.3) | (17.8) | 14    | 19    | 23    | 26    | 26  |  |
| 19.7                   |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |
|                        |                                                                 |       |                                                                                                             |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |        |       |       |       |       |     |  |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

WINCH S.W.L.  
SINGLE PART 4200

**Ph: 08 6153 4061**  
**Hire@redlinecranes.com.au**  
[www.redlinecranes.com.au](http://www.redlinecranes.com.au)

## MAC-25 4m FLYJIB TOP POSITION LOAD CHART - 40 DEG

COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**700** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).  
**65** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS

CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

ROBWAY DUTY **16**

| Radius<br>in<br>Metres | BOOM PIVOT TO EDGE OF SHEAVE - THIRD BOOM RETRACTED<br>(metres) |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | THIRD BOOM EXTENDING<br>(metres) |        |        |                             |       |        |        |        |     |  |
|------------------------|-----------------------------------------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------------|--------|--------|-----------------------------|-------|--------|--------|--------|-----|--|
|                        | 10.18                                                           | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.00  | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00  | 17.50  | 18.00  | 18.38  | 19.00                            | 19.50  | 20.00  | 20.50                       | 21.00 | 21.50  | 22.00  | 22.48  |     |  |
| 1.6                    | 700                                                             |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |                             |       |        |        |        |     |  |
|                        | 65                                                              |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |                             |       |        |        |        |     |  |
| 2.0                    | 700                                                             | 700   | 700   |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        | WINCH S.W.L.<br>SINGLE PART |       |        |        | 4200   |     |  |
|                        | 63                                                              | 64    | 65    |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |                             |       |        |        |        |     |  |
| 3.0                    | 600                                                             | 600   | 600   | 700   | 700   | 700   | 700    | 700    |        |        |        |        |        |        |        |        |        |        |                                  |        |        |                             |       |        |        |        |     |  |
|                        | 56                                                              | 57    | 59    | 61    | 62    | 63    | 64     | 65     |        |        |        |        |        |        |        |        |        |        |                                  |        |        |                             |       |        |        |        |     |  |
| 4.0                    | 600                                                             | 600   | 600   | 600   | 600   | 600   | 600    | 700    | 700    | 700    | 700    |        |        |        |        |        |        |        |                                  |        |        |                             |       |        |        |        |     |  |
|                        | 49                                                              | 51    | 53    | 55    | 56    | 58    | 59     | 61     | 62     | 63     | 64     | 65     |        |        |        |        |        |        |                                  |        |        |                             |       |        |        |        |     |  |
| 5.0                    | 600                                                             | 600   | 600   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700    | 700    |        |        |        |                                  |        |        |                             |       |        |        |        |     |  |
|                        | 41                                                              | 43    | 46    | 48    | 50    | 52    | 54     | 56     | 57     | 58     | 60     | 61     | 62     | 63     | 63     | 64     | 65     |        |                                  |        |        |                             |       |        |        |        |     |  |
| 6.0                    | 500                                                             | 500   | 500   | 600   | 600   | 600   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 700    | 700    | 700    | 700                              | 700    | 700    | 700                         | 700   |        |        |        |     |  |
|                        | 32                                                              | 34    | 38    | 41    | 44    | 46    | 48     | 50     | 52     | 54     | 55     | 56     | 57     | 59     | 60     | 61     | 62     | 62     | 63                               | 64     | 65     | 65                          |       |        |        |        |     |  |
| 7.0                    | 500                                                             | 500   | 500   | 500   | 500   | 500   | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600                         | 600   | 700    | 700    | 700    | 700 |  |
|                        | 18                                                              | 23    | 28    | 33    | 36    | 39    | 42     | 44     | 47     | 48     | 50     | 52     | 53     | 54     | 56     | 57     | 58     | 59     | 60                               | 61     | 61     | 62                          | 63    | 64     | 64     | 65     |     |  |
| 8.0                    | 500                                                             | 500   | 500   | 500   | 500   | 500   | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600                         | 600   | 600    | 600    | 600    | 600 |  |
|                        | (7.5)                                                           | (7.8) | 14    | 22    | 27    | 31    | 35     | 38     | 41     | 43     | 45     | 47     | 48     | 50     | 51     | 53     | 54     | 55     | 56                               | 57     | 58     | 59                          | 60    | 61     | 61     | 62     |     |  |
| 9.0                    |                                                                 |       | 500   | 500   | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600                         | 600   | 600    | 600    | 600    | 600 |  |
|                        |                                                                 |       | (8.3) | (8.8) | 13    | 21    | 26     | 30     | 34     | 37     | 39     | 41     | 43     | 45     | 47     | 48     | 50     | 51     | 52                               | 54     | 55     | 56                          | 57    | 57     | 58     | 59     |     |  |
| 10.0                   |                                                                 |       |       |       | 500   | 500   | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600    | 600                              | 600    | 600    | 600                         | 600   | 600    | 600    | 600    | 600 |  |
|                        |                                                                 |       |       |       | (9.3) | (9.8) | 13     | 20     | 25     | 29     | 33     | 35     | 38     | 40     | 42     | 44     | 46     | 47     | 48                               | 50     | 51     | 52                          | 53    | 54     | 55     | 56     |     |  |
| 11.0                   |                                                                 |       |       |       |       |       | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 600    | 600    | 600    | 600                              | 600    | 600    | 600                         | 600   | 600    | 600    | 600    | 600 |  |
|                        |                                                                 |       |       |       |       |       | (10.3) | (10.8) | 12     | 19     | 24     | 28     | 31     | 34     | 37     | 39     | 41     | 42     | 44                               | 46     | 47     | 48                          | 50    | 51     | 52     | 53     |     |  |
| 12                     |                                                                 |       |       |       |       |       |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500                         | 500   | 500    | 500    | 500    | 500 |  |
|                        |                                                                 |       |       |       |       |       |        |        | (11.3) | (11.8) | 12     | 19     | 24     | 27     | 31     | 33     | 36     | 37     | 40                               | 41     | 43     | 45                          | 46    | 47     | 48     | 50     |     |  |
| 13                     |                                                                 |       |       |       |       |       |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500                         | 500   | 500    | 500    | 500    | 500 |  |
|                        |                                                                 |       |       |       |       |       |        |        |        |        | (12.3) | (12.8) | 11     | 18     | 23     | 27     | 30     | 32     | 35                               | 37     | 39     | 40                          | 42    | 44     | 45     | 46     |     |  |
| 14                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500                         | 500   | 500    | 500    | 500    | 500 |  |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        | (13.3) | (13.8) | 11     | 18     | 22     | 25     | 29                               | 31     | 34     | 36                          | 38    | 39     | 41     | 42     |     |  |
| 15                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        | 500    | 500    | 500    | 500    | 500                              | 500    | 500    | 500                         | 500   | 500    | 500    | 500    | 500 |  |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        | (14.3) | (14.8) | 11     | 16     | 22                               | 25     | 28     | 31                          | 33    | 35     | 37     | 38     |     |  |
| 16                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        | 500    | 500    | 500                              | 500    | 500    | 500                         | 500   | 500    | 500    | 500    | 500 |  |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        | (15.3) | (15.7) | 11                               | 17     | 21     | 25                          | 27    | 30     | 32     | 34     |     |  |
| 18                     |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | 500                              | 500    | 500    | 500                         | 500   | 500    | 500    | 500    | 500 |  |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        | (16.3)                           | (16.8) | (17.3) | (17.8)                      | 10    | 16     | 20     | 23     |     |  |
| 19.77                  |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |                             |       |        | 500    | 500    | 500 |  |
|                        |                                                                 |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |                                  |        |        |                             |       | (18.3) | (18.8) | (19.8) |     |  |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 MAN BASKET LOAD CHART - 10 DEG. ART.

ROBWAY DUTY **17**

### COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**Yellow Box:** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).

**White Box:** BOOM ANGLE - UNDEFLECTED (REF.)

**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

MAN BASKET S.W.L. : 275 KG TARE WEIGHT: 250 KG

S.W.L. ARE BASED ON FALL BLOCK LOAD RATINGS DIVIDED BY THREE WHERE THIS IS LESS THAN THE STRUCTURAL RATING OF THE BASKET

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

| Radius<br>in<br>Metres | BOOM PIVOT TO HEAD SHEAVES - THIRD BOOM RETRACTED |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | THIRD BOOM EXTENDING |        |        |       |        |        |        |       |        |        |
|------------------------|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----------------------|--------|--------|-------|--------|--------|--------|-------|--------|--------|
|                        | (metres)                                          |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (metres)             |        |        |       |        |        |        |       |        |        |
|                        | 6.12                                              | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 14.32                | 14.50  | 15.00  | 15.50 | 16.00  | 16.50  | 17.00  | 17.50 | 18.00  | 18.42  |
| 1.4                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |       |       |       |       |       |        |        |                      |        |        |       |        |        |        |       |        |        |
|                        | 48                                                | 51    | 54    | 57    | 59    | 61    | 63    | 65    |       |       |       |       |       |       |        |        |                      |        |        |       |        |        |        |       |        |        |
| 2.0                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |       |       |        |        |                      |        |        |       |        |        |        |       |        |        |
|                        | 40                                                | 44    | 48    | 51    | 54    | 57    | 59    | 61    | 62    | 64    | 65    |       |       |       |        |        |                      |        |        |       |        |        |        |       |        |        |
| 2.5                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |        |        |                      |        |        |       |        |        |        |       |        |        |
|                        | 32                                                | 37    | 42    | 46    | 50    | 52    | 55    | 57    | 59    | 61    | 62    | 63    | 65    |       |        |        |                      |        |        |       |        |        |        |       |        |        |
| 3.0                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    |                      |        |        |       |        |        |        |       |        |        |
|                        | 21                                                | 29    | 35    | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 61    | 62    | 63    | 64     | 65     |                      |        |        |       |        |        |        |       |        |        |
| 3.5                    | 275                                               | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    |        |       |        |        |        |       |        |        |
|                        | (3.4)                                             | 17    | 28    | 34    | 39    | 43    | 47    | 49    | 52    | 54    | 56    | 58    | 59    | 61    | 62     | 63     | 65                   | 65     |        |       |        |        |        |       |        |        |
| 4.0                    |                                                   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275   |        |        |        |       |        |        |
|                        |                                                   | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    | 48    | 51    | 53    | 55    | 56    | 58    | 59     | 61     | 62                   | 63     | 64     | 65    |        |        |        |       |        |        |
| 5.0                    |                                                   |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    | 40    | 43    | 46    | 48    | 50    | 52    | 54     | 56     | 58                   | 58     | 59     | 61    | 62     | 63     | 63     | 64    | 65     |        |
| 6.0                    |                                                   |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       | (5.3) | (5.8) | 15    | 24    | 30    | 34    | 38    | 41    | 44    | 46    | 48     | 50     | 53                   | 53     | 55     | 56    | 57     | 58     | 60     | 61    | 61     | 62     |
| 7.0                    |                                                   |       |       |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       | (6.3) | (6.8) | 14    | 23    | 28    | 33    | 36    | 39    | 42     | 44     | 48                   | 48     | 50     | 52    | 53     | 54     | 56     | 57    | 58     | 59     |
| 8.0                    |                                                   |       |       |       |       |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       | (7.3) | (7.8) | 13    | 22    | 27    | 31    | 35     | 38     | 42                   | 43     | 45     | 47    | 48     | 50     | 51     | 53    | 54     | 55     |
| 9.0                    |                                                   |       |       |       |       |       |       |       |       |       | 275   | 275   | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 26     | 30     | 35                   | 36     | 39     | 41    | 43     | 45     | 47     | 48    | 50     | 51     |
| 10                     |                                                   |       |       |       |       |       |       |       |       |       |       |       | 275   | 275   | 275    | 275    | 275                  | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 20     | 28                   | 29     | 32     | 35    | 38     | 40     | 42     | 44    | 45     | 47     |
| 11                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       | 275    | 275    | 275                  | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 17                   | 19     | 24     | 28    | 31     | 34     | 37     | 39    | 41     | 42     |
| 12                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 275                  | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.6)               | (11.8) | 12     | 19    | 23     | 27     | 30     | 33    | 36     | 37     |
| 13                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      | 275    | 275    | 275   | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      | (12.3) | (12.8) | 11    | 18     | 23     | 27     | 30    | 32     |        |
| 14                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |       | 275    | 275    | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |       | (13.3) | (13.8) | 11     | 18    | 22     | 25     |
| 15                     |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |       |        |        | 275    | 275   | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |       |        | (14.3) | (14.8) | 10    | 16     |        |
| 15.71                  |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |       |        |        |        |       | 275    | 275    |
|                        |                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |                      |        |        |       |        |        |        |       | (15.3) | (15.7) |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

## MAC-25 MAN BASKET LOAD CHART - 40 DEG. ART.

COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

**275** S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).

**17** BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

ROBWAY DUTY **17**

MAN BASKET S.W.L. : 275 KG TARE WEIGHT: 250 KG

S.W.L. ARE BASED ON FALL BLOCK LOAD RATINGS DIVIDED BY THREE

WHERE THIS IS LESS THAN THE STRUCTURAL RATING OF THE BASKET

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

| Radius<br>in<br>Metres | BOOM PIVOT TO HEAD SHEAVES - THIRD BOOM RETRACTED<br>(metres) |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        | THIRD BOOM EXTENDING<br>(metres) |       |       |        |        |        |        |        |       |        |        |       |
|------------------------|---------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------------------------------|-------|-------|--------|--------|--------|--------|--------|-------|--------|--------|-------|
|                        | 6.12                                                          | 6.50  | 7.00                                                                                                        | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50  | 13.00                            | 13.50 | 14.32 | 14.50  | 15.00  | 15.50  | 16.00  | 16.50  | 17.00 | 17.50  | 18.00  | 18.42 |
| 1.4                    | 275                                                           | 275   | 275                                                                                                         | 275   | 275   | 275   | 275   | 275   |       |       |       |       |       |        |                                  |       |       |        |        |        |        |        |       |        |        |       |
|                        | 48                                                            | 51    | 54                                                                                                          | 57    | 59    | 61    | 63    | 65    |       |       |       |       |       |        |                                  |       |       |        |        |        |        |        |       |        |        |       |
| 2.0                    | 275                                                           | 275   | 275                                                                                                         | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |       |       |        |                                  |       |       |        |        |        |        |        |       |        |        |       |
|                        | 40                                                            | 44    | 48                                                                                                          | 51    | 54    | 57    | 59    | 61    | 62    | 64    | 65    |       |       |        |                                  |       |       |        |        |        |        |        |       |        |        |       |
| 2.5                    | 275                                                           | 275   | 275                                                                                                         | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   |        |                                  |       |       |        |        |        |        |        |       |        |        |       |
|                        | 32                                                            | 37    | 42                                                                                                          | 46    | 50    | 52    | 55    | 57    | 59    | 61    | 62    | 63    | 65    |        |                                  |       |       |        |        |        |        |        |       |        |        |       |
| 3.0                    | 275                                                           | 275   | 275                                                                                                         | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275                              | 275   |       |        |        |        |        |        |       |        |        |       |
|                        | 21                                                            | 29    | 35                                                                                                          | 41    | 45    | 48    | 51    | 53    | 55    | 57    | 59    | 61    | 62    | 63     | 64                               | 65    |       |        |        |        |        |        |       |        |        |       |
| 3.5                    | 275                                                           | 275   | 275                                                                                                         | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275                              | 275   | 275   | 275    |        |        |        |        |       |        |        |       |
|                        | (3.4)                                                         | 17    | 28                                                                                                          | 34    | 39    | 43    | 47    | 49    | 52    | 54    | 56    | 58    | 59    | 61     | 62                               | 63    | 65    | 65     |        |        |        |        |       |        |        |       |
| 4.0                    |                                                               | 275   | 275                                                                                                         | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275                              | 275   | 275   | 275    | 275    | 275    |        |        |       |        |        |       |
|                        | (3.8)                                                         | 17    | 27                                                                                                          | 33    | 38    | 42    | 45    | 48    | 51    | 53    | 55    | 56    | 58    | 59     | 61                               | 62    | 63    | 64     | 65     |        |        |        |       |        |        |       |
| 5.0                    |                                                               |       | 275                                                                                                         | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275                              | 275   | 275   | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               | (4.3) | (4.8)                                                                                                       | 16    | 25    | 31    | 36    | 40    | 43    | 46    | 48    | 50    | 52    | 54     | 56                               | 58    | 58    | 59     | 61     | 62     | 63     | 63     | 64    | 65     |        |       |
| 6.0                    |                                                               |       |                                                                                                             | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275                              | 275   | 275   | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               |       |                                                                                                             | (5.3) | (5.8) | 15    | 24    | 30    | 34    | 38    | 41    | 44    | 46    | 48     | 50                               | 53    | 53    | 55     | 56     | 57     | 58     | 60     | 61    | 61     | 62     |       |
| 7.0                    |                                                               |       |                                                                                                             |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275                              | 275   | 275   | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               |       |                                                                                                             |       |       | (6.3) | (6.8) | 14    | 23    | 28    | 33    | 36    | 39    | 42     | 44                               | 48    | 48    | 50     | 52     | 53     | 54     | 56     | 57    | 58     | 59     |       |
| 8.0                    |                                                               |       |                                                                                                             |       |       |       |       | 275   | 275   | 275   | 275   | 275   | 275   | 275    | 275                              | 275   | 275   | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               |       |                                                                                                             |       |       |       |       | (7.3) | (7.8) | 13    | 22    | 27    | 31    | 35     | 38                               | 42    | 43    | 45     | 47     | 48     | 50     | 51     | 53    | 54     | 55     |       |
| 9.0                    |                                                               |       |                                                                                                             |       |       |       |       |       |       | 275   | 275   | 275   | 275   | 275    | 275                              | 275   | 275   | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       | (8.3) | (8.8) | 13    | 21    | 26     | 30                               | 35    | 36    | 39     | 41     | 43     | 45     | 47     | 48    | 50     | 51     |       |
| 10                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       | 275   | 275   | 275    | 275                              | 275   | 275   | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 20                               | 28    | 29    | 32     | 35     | 38     | 40     | 42     | 44    | 45     | 47     |       |
| 11                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       | 275    | 275                              | 275   | 275   | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8)                           | 17    | 19    | 24     | 28     | 31     | 34     | 37     | 39    | 41     | 42     |       |
| 12                     |                                                               |       | NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER<br>LOAD HANDLING DEVICES SHALL BE ADDED<br>TO THE WEIGHT OF THE LOAD |       |       |       |       |       |       |       |       |       |       |        |                                  | 275   | 275   | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       |        |        |        | (11.6) | (11.8) | 12    | 19     | 23     | 27    |
| 13                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       | 275    | 275    | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       | (12.3) | (12.8) | 11     | 18     | 23     | 27    | 30     | 32     |       |
| 14                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       |        |        | 275    | 275    | 275    | 275   | 275    | 275    | 275   |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       |        |        | (13.3) | (13.8) | 11     | 18    | 22     | 25     |       |
| 15                     |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       |        |        |        |        | 275    | 275   | 275    | 275    |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       |        |        | (14.3) | (14.8) | 10     | 16    |        |        |       |
| 15.71                  |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       |        |        |        |        |        |       | 265    | 250    |       |
|                        |                                                               |       |                                                                                                             |       |       |       |       |       |       |       |       |       |       |        |                                  |       |       |        |        |        |        |        |       | (15.3) | (15.7) |       |

NOTE: WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD



## ROBWAY DUTY **18**

### MAC-25 BUTT LUG - 10 DEG. ART.

COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

SWL IS AT THIS RADIUS

### MAC-25 BUTT LUG - 40 DEG. ART.

COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40 DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

SWL IS AT THIS RADIUS

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH - S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL - S.W.L. ARE BASED ON FIRM, LEVEL GROUND WITH TYRES INFLATED AS PER NOTES

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

| Radius in Metres | Boom Length (metres) |
|------------------|----------------------|
|                  | 4.81                 |
| 1.4              | 25000                |
|                  | 32                   |
| 1.5              | 24650                |
|                  | 30                   |
| 1.6              | 24200                |
|                  | 27                   |
| 1.7              | 23800                |
|                  | 24                   |
| 1.8              | 23350                |
|                  | 21                   |
| 1.9              | 22950                |
|                  | 18                   |
| 2.1              | 20950                |
|                  | 0                    |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

| Radius in Metres | Boom Length (metres) |
|------------------|----------------------|
|                  | 4.81                 |
| 1.4              | 25000                |
|                  | 32                   |
| 1.5              | 24650                |
|                  | 30                   |
| 1.6              | 24200                |
|                  | 27                   |
| 1.7              | 23600                |
|                  | 24                   |
| 1.8              | 22200                |
|                  | 21                   |
| 1.9              | 20900                |
|                  | 18                   |
| 2.1              | 18650                |
|                  | 0                    |

## ROBWAY DUTY 19

### MAC25 LUG 1 LOAD CHART - 10 DEG. ART. COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER  
SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE  
SWL IS AT THIS RADIUS

S.W.L. ARE BASED ON 66.7% STABILITY & STRENGTH - S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL - S.W.L. ARE BASED ON FIRM, LEVEL GROUND WITH TYRES INFLATED AS PER NOTES  
LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MINIMUM BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

**NOTE:** WEIGHT OF HOOKS, BLOCKS & OTHER LOAD HANDLING DEVICES SHALL BE ADDED TO THE WEIGHT OF THE LOAD

| RADIUS<br>IN<br>METRES | BOOM PIVOT TO LUG 1, 1st EXTENSION, THIRD EXTENSION RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |
|------------------------|---------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        | 5.36                                                                      | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.46  |
| 1.4                    | 25000                                                                     | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 24800 | 24650 | 24000 |
|                        | 40                                                                        | 42    | 47    | 51    | 54    | 57    | 59    | 61    | 63    | 64    |
| 2                      | 22650                                                                     | 22550 | 22250 | 21950 | 21750 | 21500 | 21350 | 21150 | 21000 | 20900 |
|                        | 29                                                                        | 31    | 38    | 44    | 48    | 51    | 54    | 56    | 59    | 60    |
| 2.5                    | 17750                                                                     | 17700 | 17450 | 17200 | 17000 | 16800 | 16650 | 16500 | 16400 | 16300 |
|                        | 14                                                                        | 19    | 30    | 37    | 42    | 46    | 49    | 52    | 55    | 57    |
| 3                      | 16600                                                                     | 15600 | 14200 | 14000 | 13850 | 13700 | 13550 | 13400 | 13300 | 13200 |
|                        | (2.7)                                                                     | (2.8) | 18    | 29    | 35    | 41    | 45    | 48    | 51    | 53    |
| 3.5                    |                                                                           |       | 12700 | 11750 | 11600 | 11450 | 11300 | 11200 | 11100 | 11000 |
|                        |                                                                           |       | (3.3) | 17    | 28    | 34    | 39    | 43    | 46    | 49    |
| 4                      |                                                                           |       |       | 10550 | 9850  | 9750  | 9600  | 9500  | 9400  | 9350  |
|                        |                                                                           |       |       | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    |
| 5                      |                                                                           |       |       |       | 8950  | 7650  | 7250  | 7150  | 7100  | 7000  |
|                        |                                                                           |       |       |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    |
| 6                      |                                                                           |       |       |       |       |       | 6600  | 5750  | 5500  | 5450  |
|                        |                                                                           |       |       |       |       |       | (5.3) | (5.8) | 15    | 23    |
| 6.8                    |                                                                           |       |       |       |       |       |       |       | 5000  | 4450  |
|                        |                                                                           |       |       |       |       |       |       |       | (6.3) | (6.8) |

### MAC25 LUG 1 LOAD CHART - 40 DEG. ART. COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED



S.W.L. IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40  
DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE  
SWL IS AT THIS RADIUS

| RADIUS<br>IN<br>METRES | BOOM PIVOT TO LUG 1, 1st EXTENSION, THIRD EXTENSION RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |
|------------------------|---------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                        | 5.36                                                                      | 5.50  | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.46  |
| 1.4                    | 25000                                                                     | 24900 | 19800 | 17850 | 16350 | 15100 | 14100 | 13200 | 12400 | 11800 |
|                        | 40                                                                        | 42    | 47    | 51    | 54    | 57    | 59    | 61    | 63    | 64    |
| 2                      | 20250                                                                     | 20150 | 19500 | 17800 | 15200 | 13900 | 12850 | 11950 | 11200 | 10600 |
|                        | 29                                                                        | 31    | 38    | 44    | 48    | 51    | 54    | 56    | 59    | 60    |
| 2.5                    | 15800                                                                     | 15750 | 15500 | 15250 | 14600 | 13550 | 12700 | 11050 | 10300 | 9750  |
|                        | 14                                                                        | 19    | 30    | 37    | 42    | 46    | 49    | 52    | 55    | 57    |
| 3                      | 14750                                                                     | 13850 | 12600 | 12400 | 12200 | 12050 | 11300 | 10650 | 10050 | 8950  |
|                        | (2.7)                                                                     | (2.8) | 18    | 29    | 35    | 41    | 45    | 48    | 51    | 53    |
| 3.5                    |                                                                           |       | 11200 | 10350 | 10200 | 10050 | 9900  | 9550  | 9000  | 8550  |
|                        |                                                                           |       | (3.3) | 17    | 28    | 34    | 39    | 43    | 46    | 49    |
| 4                      |                                                                           |       |       | 9300  | 8650  | 8550  | 8400  | 8300  | 8100  | 7700  |
|                        |                                                                           |       |       | (3.8) | 17    | 27    | 33    | 38    | 42    | 45    |
| 5                      |                                                                           |       |       |       | 7800  | 6650  | 6300  | 6200  | 6100  | 6050  |
|                        |                                                                           |       |       |       | (4.3) | (4.8) | 16    | 25    | 31    | 36    |
| 6                      |                                                                           |       |       |       |       |       | 5700  | 4900  | 4700  | 4650  |
|                        |                                                                           |       |       |       |       |       | (5.3) | (5.8) | 15    | 23    |
| 6.8                    |                                                                           |       |       |       |       |       |       |       | 4250  | 3750  |
|                        |                                                                           |       |       |       |       |       |       |       | (6.3) | (6.8) |

## MAC-25 LUG 2 LOAD CHART - 10 DEG. ART. COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

ROBWAY DUTY **20**



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF 10 DEGREES OR LESS EITHER

SIDE OF STRAIGHT AHEAD (INDICATED BY GREEN LED ON DASH).



BOOM ANGLE - UNDEFLECTED (REF.)

S.W.L. ARE BASED ON 88.7% STABILITY & STRENGTH

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES

INFLATED AS PER THE NOTES

NOTE: VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MIN BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC

| Radius<br>in<br>Metres | BOOM PIVOT TO LUG 2, 2nd EXTENSION, THIRD EXTENSION RETRACTED<br>(metres) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |
|------------------------|---------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|                        | 5.57                                                                      | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 13.77  |
| 1.4                    | 25000                                                                     | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |       |       |       |       |       |       |        |        |        |
|                        | 42                                                                        | 46    | 50    | 54    | 57    | 59    | 61    | 63    | 64    |       |       |       |       |       |       |        |        |        |
| 2                      | 22800                                                                     | 22750 | 22750 | 22700 | 22700 | 22650 | 22650 | 22600 | 22600 | 22550 | 21850 | 19400 |       |       |       |        |        |        |
|                        | 32                                                                        | 38    | 43    | 47    | 51    | 54    | 56    | 58    | 60    | 62    | 63    | 64    |       |       |       |        |        |        |
| 2.5                    | 17900                                                                     | 17900 | 17900 | 17850 | 17850 | 17850 | 17800 | 17800 | 17750 | 17750 | 17700 | 17700 | 16550 | 15650 |       |        |        |        |
|                        | 20                                                                        | 29    | 36    | 42    | 46    | 49    | 52    | 54    | 57    | 58    | 60    | 62    | 63    | 64    |       |        |        |        |
| 3                      | 15350                                                                     | 14650 | 14600 | 14600 | 14600 | 14600 | 14550 | 14550 | 14550 | 14550 | 14500 | 14400 | 13600 | 12900 | 12200 |        |        |        |
|                        | 15                                                                        | 18    | 28    | 35    | 40    | 44    | 48    | 50    | 53    | 55    | 57    | 59    | 60    | 61    | 63    |        |        |        |
| 3.5                    | 15350                                                                     | 13150 | 12300 | 12300 | 12300 | 12300 | 12300 | 12300 | 12250 | 12250 | 12250 | 12250 | 12250 | 12200 | 12200 | 11900  | 11250  | 10900  |
|                        | (2.9)                                                                     | (3.3) | 17    | 27    | 34    | 39    | 43    | 46    | 49    | 51    | 54    | 55    | 57    | 59    | 60    | 61     | 62     | 63     |
| 4                      |                                                                           |       | 11200 | 10550 | 10600 | 10550 | 10550 | 10550 | 10550 | 10550 | 10550 | 10500 | 10500 | 10500 | 10500 | 10500  | 10450  | 10150  |
|                        |                                                                           |       | (3.8) | 16    | 26    | 33    | 38    | 42    | 45    | 48    | 50    | 52    | 54    | 56    | 57    | 59     | 60     | 61     |
| 5                      |                                                                           |       |       | 9650  | 8500  | 8150  | 8150  | 8150  | 8150  | 8100  | 8100  | 8100  | 8100  | 8100  | 8100  | 8100   | 8100   | 8050   |
|                        |                                                                           |       |       | (4.3) | (4.8) | 15    | 25    | 31    | 36    | 39    | 43    | 45    | 48    | 50    | 52    | 53     | 55     | 56     |
| 6                      |                                                                           |       |       |       |       | 7500  | 6700  | 6500  | 6500  | 6500  | 6500  | 6500  | 6500  | 6500  | 6500  | 6500   | 6450   | 6450   |
|                        |                                                                           |       |       |       |       | (5.3) | (5.8) | 14    | 23    | 29    | 34    | 37    | 41    | 43    | 46    | 48     | 50     | 51     |
| 7                      |                                                                           |       |       |       |       |       |       | 6050  | 5500  | 5350  | 5350  | 5350  | 5350  | 5350  | 5350  | 5350   | 5350   | 5350   |
|                        |                                                                           |       |       |       |       |       |       | (6.3) | (6.8) | 14    | 22    | 28    | 32    | 36    | 39    | 42     | 44     | 45     |
| 8                      |                                                                           |       |       |       |       |       |       |       | 5000  | 4550  | 4450  | 4450  | 4450  | 4450  | 4450  | 4450   | 4450   | 4450   |
|                        |                                                                           |       |       |       |       |       |       |       | (7.3) | (7.8) | 13    | 21    | 27    | 31    | 34    | 37     | 39     |        |
| 9                      |                                                                           |       |       |       |       |       |       |       |       |       |       | 4200  | 3850  | 3800  | 3800  | 3800   | 3800   | 3800   |
|                        |                                                                           |       |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 12    | 20    | 26     | 30     | 32     |
| 10                     |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       | 3550  | 3300  | 3250   | 3250   | 3250   |
|                        |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 19     | 23     |
| 11                     |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3050   | 2800   | 2800   |
|                        |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 6      |
| 11.1                   |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 2700   |
|                        |                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.1) |

NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD

## MAC-25 LUG 2 LOAD CHART - 40 DEG. ART. COUNTERWEIGHT ON REAR OF CRANE - SPRING LOCKOUTS ENGAGED

ROBWAY DUTY **20**



S.W.L IN KILOGRAMS FOR SLEW ANGLES OF GREATER THAN 10 DEGREES UP TO 40

S.W.L ARE BASED ON 66.7% STABILITY & STRENGTH

DEGREES EITHER SIDE OF STRAIGHT AHEAD (INDICATED BY RED LED ON DASH).

- S.W.L. ABOVE BOLD RED LINE ARE STRUCTURAL



BOOM ANGLE - UNDEFLECTED (REF.)

S.W.L. ARE BASED ON FIRM LEVEL GROUND WITH TYRES

**NOTE:** VALUES IN BRACKETS ( ) ARE ACTUAL RADIUS AT ZERO DEG. BOOM ANGLE.

INFLATED AS PER THE NOTES

**LIFT & CARRY - THE S.W.L. SHALL BE CARRIED WITH THE MIN BOOM LENGTH & AS CLOSE TO THE GROUND AS POSSIBLE AT SPEEDS NOT IN EXCESS OF 0.4 M/SEC**

| Radius<br>in<br>Metres | BOOM PIVOT TO LUG 2, 2nd EXTENSION, THIRD EXTENSION RETRACTED (METRES) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |
|------------------------|------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|                        | 5.57                                                                   | 6.00  | 6.50  | 7.00  | 7.50  | 8.00  | 8.50  | 9.00  | 9.50  | 10.00 | 10.50 | 11.00 | 11.50 | 12.00 | 12.50 | 13.00  | 13.50  | 13.77  |
| 1.4                    | 22150                                                                  | 20050 | 18300 | 16900 | 15750 | 14800 | 14000 | 13300 | 12650 |       |       |       |       |       |       |        |        |        |
|                        | 42                                                                     | 46    | 50    | 54    | 57    | 59    | 61    | 63    | 64    |       |       |       |       |       |       |        |        |        |
| 2                      | 20350                                                                  | 19900 | 18400 | 15800 | 14600 | 13650 | 12850 | 12150 | 11550 | 11050 | 10550 | 10100 |       |       |       |        |        |        |
|                        | 32                                                                     | 38    | 43    | 47    | 51    | 54    | 56    | 58    | 60    | 62    | 63    | 64    |       |       |       |        |        |        |
| 2.5                    | 15950                                                                  | 15950 | 15950 | 15350 | 14450 | 13700 | 11950 | 11300 | 10750 | 10250 | 9800  | 9400  | 9000  | 8700  |       |        |        |        |
|                        | 20                                                                     | 29    | 36    | 42    | 46    | 49    | 52    | 54    | 57    | 58    | 60    | 62    | 63    | 64    |       |        |        |        |
| 3                      | 13650                                                                  | 13000 | 13000 | 12300 | 11700 | 11200 | 10000 | 9500  | 9100  | 8700  | 8350  | 8050  | 7800  | 7500  | 7300  |        |        |        |
|                        | 14                                                                     | 18    | 28    | 35    | 40    | 44    | 48    | 50    | 53    | 55    | 57    | 59    | 60    | 61    | 63    |        |        |        |
| 3.5                    | 13650                                                                  | 11650 | 10950 | 10950 | 10950 | 10900 | 10600 | 10100 | 9700  | 8850  | 8450  | 8100  | 7750  | 7500  | 7250  | 7000   | 6750   | 6650   |
|                        | (2.9)                                                                  | (3.3) | 17    | 27    | 34    | 39    | 43    | 46    | 49    | 51    | 54    | 55    | 57    | 59    | 60    | 61     | 62     | 63     |
| 4                      |                                                                        |       | 9900  | 9350  | 9350  | 9350  | 9350  | 9250  | 8850  | 8500  | 8200  | 7550  | 7250  | 6950  | 6750  | 6500   | 6300   | 6200   |
|                        |                                                                        |       | (3.8) | 16    | 26    | 33    | 38    | 42    | 45    | 48    | 50    | 52    | 54    | 56    | 57    | 59     | 60     | 61     |
| 5                      |                                                                        |       |       | 8550  | 7450  | 7150  | 7150  | 7150  | 7150  | 6950  | 6700  | 6500  | 6300  | 6150  | 5650  | 5500   | 5400   |        |
|                        |                                                                        |       |       | (4.3) | (4.8) | 15    | 25    | 31    | 36    | 39    | 43    | 45    | 48    | 50    | 52    | 53     | 55     | 56     |
| 6                      |                                                                        |       |       |       |       | 6600  | 5900  | 5700  | 5700  | 5700  | 5700  | 5700  | 5600  | 5400  | 5250  | 5100   | 5000   | 4900   |
|                        |                                                                        |       |       |       |       | (5.3) | (5.8) | 14    | 23    | 29    | 34    | 37    | 41    | 43    | 46    | 48     | 50     | 51     |
| 7                      |                                                                        |       |       |       |       |       |       | 5300  | 4750  | 4650  | 4650  | 4650  | 4650  | 4650  | 4600  | 4450   | 4350   | 4300   |
|                        |                                                                        |       |       |       |       |       |       | (6.3) | (6.8) | 14    | 22    | 28    | 32    | 36    | 39    | 42     | 44     | 45     |
| 8                      |                                                                        |       |       |       |       |       |       |       |       | 4300  | 3950  | 3850  | 3850  | 3850  | 3850  | 3850   | 3800   | 3750   |
|                        |                                                                        |       |       |       |       |       |       |       |       | (7.3) | (7.8) | 13    | 21    | 27    | 31    | 34     | 37     | 39     |
| 9                      |                                                                        |       |       |       |       |       |       |       |       |       |       | 3600  | 3300  | 3250  | 3250  | 3250   | 3250   | 3250   |
|                        |                                                                        |       |       |       |       |       |       |       |       |       |       | (8.3) | (8.8) | 12    | 20    | 26     | 30     | 32     |
| 10                     |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       | 3000  | 2800  | 2750   | 2750   | 2750   |
|                        |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       | (9.3) | (9.8) | 12     | 19     | 23     |
| 11                     |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2550   | 2350   | 2350   |
|                        |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       | (10.3) | (10.8) | 6      |
| 11.1                   |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | 2250   |
|                        |                                                                        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        | (11.1) |

**NOTE : WEIGHT OF HOOKS, BLOCKS & OTHER  
LOAD HANDLING DEVICES SHALL BE ADDED  
TO THE WEIGHT OF THE LOAD**



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