# Load Rating Chart

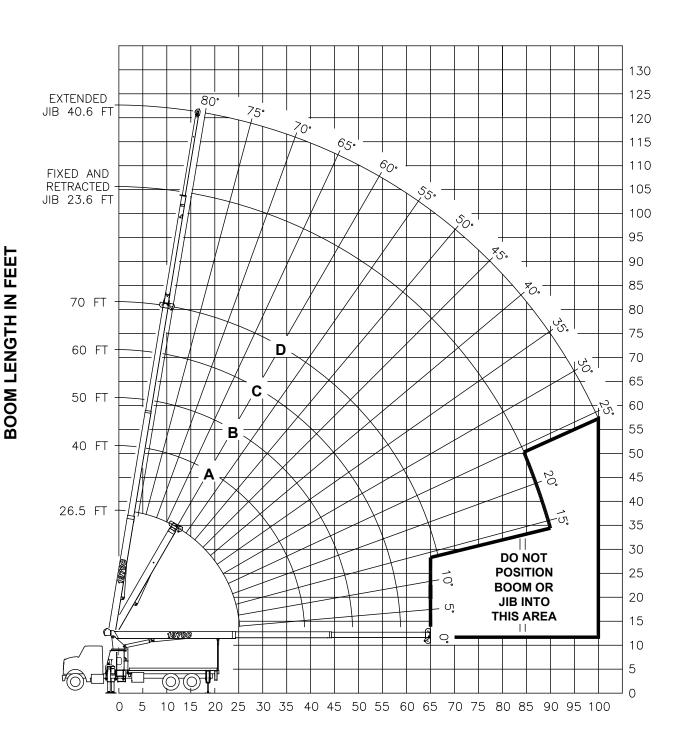
# Model 1770C



©Manitex 2015

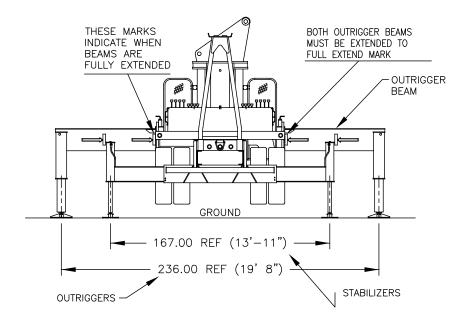
**NOTE:** Additional copies of this Load Rating Chart can be purchased from your Manitex Distributor. When ordering, use the part number shown in the bottom left corner of this page.

# RANGE DIAGRAM - FULLY EXTENDED OUTRIGGER CONFIGURATION -



OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

USE THIS CHART ONLY
WHEN OUTRIGGERS
AND STABILIZERS ARE
FULLY EXTENDED

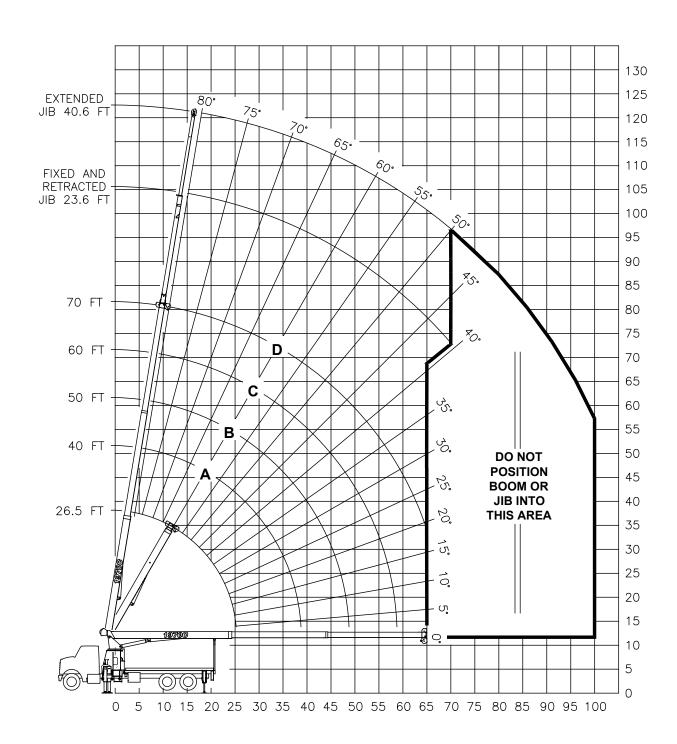


## MAIN BOOM AND JIB LIFTING CAPACITIES

|                        | MAIN BOOM RATED LOADS            |  |                                  |                              |                                  |                              |                                  |         | JIB RATED LOADS FOR ALL BOOM LENGTHS |                    |                              |                                  |                              |                                  |                              |                                  |                              |
|------------------------|----------------------------------|--|----------------------------------|------------------------------|----------------------------------|------------------------------|----------------------------------|---------|--------------------------------------|--------------------|------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
|                        |                                  | FT (RETR) 40 FT (A) 50 FT (B) 60 FT (C) CODE 1 LMI CODE 1 LMI CODE 1 |                                  |                              | 70 FT (D)<br>LMI CODE 1          |                              | 24 FT FIXED JIB<br>LMI CODE 2    |         |                                      | TELE JIB<br>CODE 3 | 41 FT TELE JIB<br>LMI CODE 4 |                                  |                              |                                  |                              |                                  |                              |
| LOAD<br>RADIUS<br>(FT) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS)   | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING | LOADED<br>BOOM<br>ANGLE<br>(DEG)     | LIFTING            | LOAD<br>RADIUS<br>(FT)       | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) |
| 5                      | 79                               | 34000  |                                  |                              |                                  |                              |                                  |         |                                      |                    | 5                            |                                  |                              |                                  |                              |                                  |                              |
| 8                      | 73                               | 27010  | 79                               | 24000                        |                                  |                              |                                  |         |                                      |                    | 8                            |                                  |                              |                                  |                              |                                  |                              |
| 10                     | 68                               | 22330  | 76                               | 21100                        | 80                               | 18000                        |                                  |         |                                      |                    | 10                           |                                  |                              |                                  |                              |                                  |                              |
| 12                     | 63                               | 18410  | 73                               | 18230                        | 77                               | 16230                        | 80                               | 13420   |                                      |                    | 12                           |                                  |                              |                                  |                              |                                  |                              |
| 15                     | 55                               | 14420  | 69                               | 14600                        | 74                               | 13940                        | 77                               | 11900   | 80                                   | 9400               | 15                           |                                  |                              |                                  |                              |                                  |                              |
| 20                     | 40                               | 10350  | 61                               | 10540                        | 68                               | 10600                        | 72                               | 9810    | 76                                   | 8180               | 20                           | 80                               | 4400                         | 80                               | 4200                         |                                  |                              |
| 25                     | 12                               | 7830   | 52                               | 8070                         | 61                               | 8130                         | 67                               | 8170    | 71                                   | 7000               | 25                           | 78                               | 4200                         | 78                               | 4000                         | 80                               | 3000                         |
| 30                     |                                  |  | 41                               | 6400                         | 54                               | 6470                         | 62                               | 6510    | 67                                   | 6050               | 30                           | 75                               | 4000                         | 75                               | 3800                         | 78                               | 2660                         |
| 35                     |                                  |  | 28                               | 5160                         | 47                               | 5240                         | 56                               | 5280    | 62                                   | 5280               | 35                           | 71                               | 3600                         | 71                               | 3380                         | 75                               | 2380                         |
| 40                     |                                  |  |                                  |                              | 37                               | 4310                         | 50                               | 4360    | 58                                   | 4380               | 40                           | 68                               | 3220                         | 68                               | 3010                         | 72                               | 2150                         |
| 45                     |                                  |  |                                  |                              | 25                               | 3590                         | 43                               | 3640    | 52                                   | 3670               | 45                           | 65                               | 2880                         | 65                               | 2650                         | 69                               | 1940                         |
| 50                     |                                  |  |                                  |                              |                                  |                              | 35                               | 3070    | 47                                   | 3100               | 50                           | 61                               | 2580                         | 61                               | 2340                         | 66                               | 1770                         |
| 55                     |                                  |  |                                  |                              |                                  |                              | 24                               | 2590    | 40                                   | 2630               | 55                           | 57                               | 2310                         | 57                               | 2060                         | 63                               | 1620                         |
| 60                     |                                  |  |                                  |                              |                                  |                              |                                  |         | 33                                   | 2240               | 60                           | 53                               | 2070                         | 53                               | 1820                         | 60                               | 1490                         |
| 65                     |                                  |  |                                  |                              |                                  |                              |                                  |         | 23                                   | 1910               | 65                           | 49                               | 1870                         | 49                               | 1610                         | 57                               | 1380                         |
| 70                     |                                  |  |                                  |                              |                                  |                              |                                  |         |                                      |                    | 70                           | 45                               | 1640                         | 45                               | 1360                         | 54                               | 1280                         |
| 75                     |                                  |  |                                  |                              |                                  |                              |                                  |         |                                      |                    | 75                           | 40                               | 1400                         | 40                               | 1120                         | 51                               | 1190                         |
| 80                     |                                  |  |                                  |                              |                                  |                              |                                  |         |                                      |                    | 80                           | 34                               | 1190                         | 34                               | 910                          | 47                               | 1110                         |
| 85                     |                                  |  |                                  |                              |                                  |                              |                                  |         |                                      |                    | 85                           | 27                               | 1010                         | 27                               | 730                          | 43                               | 1020                         |
| 90                     |                                  |  |                                  |                              |                                  |                              |                                  |         |                                      |                    | 90                           | 19                               | 840                          | 19                               | 560                          | 39                               | 860                          |
| 95                     |                                  |  |                                  |                              |                                  |                              |                                  |         |                                      |                    | 95                           |                                  |                              |                                  |                              | 34                               | 710                          |
| 100                    |                                  |  |                                  |                              |                                  |                              |                                  |         |                                      |                    | 100                          |                                  |                              |                                  |                              | 28                               | 580                          |
|                        | 350                              | LBS  | 240                              | 240 LBS                      |                                  | 190 LBS                      |                                  | 160 LBS |                                      | 140 LBS            |                              | DEDUCTIONS FOR STOWED FIXED JIB  |                              |                                  |                              |                                  |                              |
|                        | 530                              | LBS  | 350                              | LBS                          | 280                              | LBS                          | 240                              | LBS     | 200                                  | LBS                | DEDU                         | JCTIONS                          | S FOR S                      | TOWED                            | TELESC                       | OPIC J                           | IB                           |

7300086-017 NR PAGE 3 OF 10

# RANGE DIAGRAM - MID EXTEND OUTRIGGER CONFIGURATION -

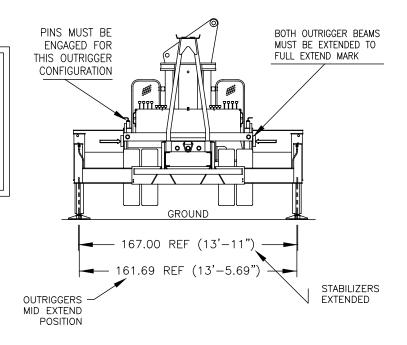


#### OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

NOTE: LIFTING PERSONNEL WITH CRANE IN THIS OUTRIGGER
CONFIGURATION IS STRICTLY PROHIBITED. USE ONLY FULLY
EXTENDED OUTRIGGER CONFIGURATION WHEN LIFTING PERSONNEL.

**BOOM LENGTH IN FEET** 

USE THIS CHART ONLY WHEN
FRONT OUTRIGGERS ARE IN THE
MID EXTEND POSITION AND
STABILIZERS
ARE FULLY EXTENDED

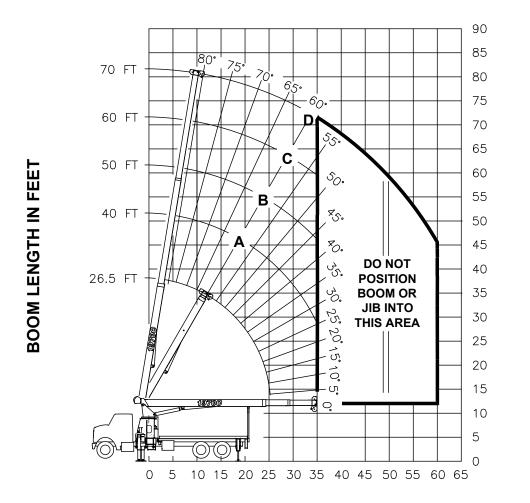


## MAIN BOOM AND JIB LIFTING CAPACITIES

| MAIN BOOM RATED LOADS  |                                  |                              |                                  |  |                        |                              |                                  |                              |                                  | JIB RATED LOADS FOR ALL BOOM LENGTHS |                        |                                  |                              |                                  |                              |                                  |                              |
|------------------------|----------------------------------|------------------------------|----------------------------------|--|------------------------|------------------------------|----------------------------------|------------------------------|----------------------------------|--------------------------------------|------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
|                        | LMI CODE 9 LMI                   |                              | LMI C                            | 40 FT (A) 50 FT (B)<br>LMI CODE 9 LMI CODE 9 |                        | 60 FT (C)<br>LMI CODE 9      |                                  | 70 FT (D)<br>LMI CODE 9      |                                  |                                      | LMI C                  | FIXED JIB<br>ODE 10              | LMI C                        | TELE JIB<br>CODE 11              | LMI C                        | TELE JIB<br>ODE 12               |                              |
| LOAD<br>RADIUS<br>(FT) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS)                 | BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS)         | LOAD<br>RADIUS<br>(FT) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) |
| 5                      | 79                               | 34000                        |                                  |  |                        |                              |                                  |                              |                                  |                                      | 5                      |                                  |                              |                                  |                              |                                  |                              |
| 8                      | 73                               | 27010                        | 79                               | 24000  |                        |                              |                                  |                              |                                  |                                      | 8                      |                                  |                              |                                  |                              |                                  |                              |
| 10                     | 68                               | 22330                        | 76                               | 21100  | 80                     | 18000                        |                                  |                              |                                  |                                      | 10                     |                                  |                              |                                  |                              |                                  |                              |
| 12                     | 63                               | 18410                        | 73                               | 18230  | 77                     | 16320                        | 80                               | 13420                        |                                  |                                      | 12                     |                                  |                              |                                  |                              |                                  |                              |
| 15                     | 55                               | 14420                        | 69                               | 14600  | 74                     | 13940                        | 77                               | 11900                        | 80                               | 9400                                 | 15                     |                                  |                              |                                  |                              |                                  |                              |
| 20                     | 40                               | 8550                         | 61                               | 8810   | 68                     | 8900                         | 72                               | 8960                         | 76                               | 8180                                 | 20                     | 80                               | 4400                         | 80                               | 4200                         |                                  |                              |
| 25                     | 12                               | 5610                         | 52                               | 5900   | 61                     | 5980                         | 67                               | 6030                         | 71                               | 6070                                 | 25                     | 78                               | 4200                         | 78                               | 4000                         | 80                               | 3000                         |
| 30                     |                                  |                              | 41                               | 4230   | 54                     | 4310                         | 62                               | 4360                         | 67                               | 4390                                 | 30                     | 75                               | 4000                         | 75                               | 3800                         | 78                               | 2660                         |
| 35                     |                                  |                              | 28                               | 3150   | 47                     | 3240                         | 56                               | 3280                         | 62                               | 3310                                 | 35                     | 71                               | 3390                         | 71                               | 3150                         | 75                               | 2380                         |
| 40                     |                                  |                              |                                  |  | 37                     | 2480                         | 50                               | 2530                         | 58                               | 2560                                 | 40                     | 68                               | 2620                         | 68                               | 2380                         | 72                               | 2150                         |
| 45                     |                                  |                              |                                  |  | 25                     | 1910                         | 43                               | 1970                         | 52                               | 2000                                 | 45                     | 65                               | 2060                         | 65                               | 1820                         | 69                               | 1940                         |
| 50                     |                                  |                              |                                  |  |                        |                              | 35                               | 1540                         | 47                               | 1570                                 | 50                     | 61                               | 1630                         | 61                               | 1380                         | 66                               | 1680                         |
| 55                     |                                  |                              |                                  |  |                        |                              | 24                               | 1190                         | 40                               | 1230                                 | 55                     | 57                               | 1280                         | 57                               | 1040                         | 63                               | 1330                         |
| 60                     |                                  |                              |                                  |  |                        |                              |                                  |                              | 33                               | 950                                  | 60                     | 53                               | 1000                         | 53                               | 760                          | 60                               | 1050                         |
| 65                     |                                  |                              |                                  |  |                        |                              |                                  |                              | 23                               | 710                                  | 65                     | 49                               | 770                          |                                  |                              | 57                               | 810                          |
| 70                     |                                  |                              |                                  |  |                        |                              |                                  |                              |                                  |                                      | 70                     | 45                               | 580                          |                                  |                              | 54                               | 620                          |
| 75                     |                                  |                              |                                  |  |                        |                              |                                  |                              |                                  |                                      |                        |                                  |                              |                                  |                              |                                  |                              |
|                        |                                  |                              |                                  |  |                        |                              |                                  |                              |                                  |                                      |                        |                                  |                              |                                  |                              |                                  |                              |
|                        | 350                              |                              | 240 LBS                          |  | 190 LBS                |                              | 160 LBS                          |                              | 140 LBS                          |                                      | DEDUCTIONS FOR S       |                                  |                              | TOWED FIXED JIB                  |                              |                                  |                              |
|                        | 530 LBS                          |                              | 350                              | LBS  | 280                    | LBS                          | 240                              | LBS                          | 200                              | LBS                                  | DEDU                   | JCTIONS                          | S FOR S                      | TOWED                            | TELESC                       | OPIC J                           | IB                           |

7300086-017 NR PAGE 5 OF 10

# RANGE DIAGRAM - FULLY RETRACTED OUTRIGGER AND STABILIZER CONFIGURATION -



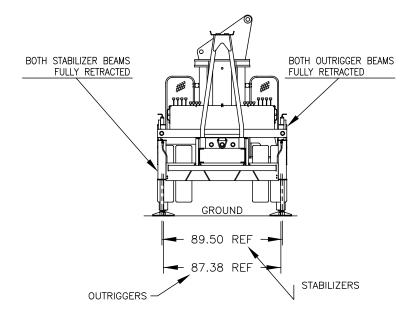
HEIGHT ABOVE GROUND IN FEET

OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

NOTE: LIFTING PERSONNEL WITH CRANE IN THIS OUTRIGGER
CONFIGURATION IS STRICTLY PROHIBITED. USE ONLY FULLY
EXTENDED OUTRIGGER CONFIGURATION WHEN LIFTING PERSONNEL.

7300086-017 NR PAGE 6 OF 10

USE THIS CHART ONLY WHEN ALL OUTRIGGERS AND STABILIZERS ARE FULLY RETRACTED



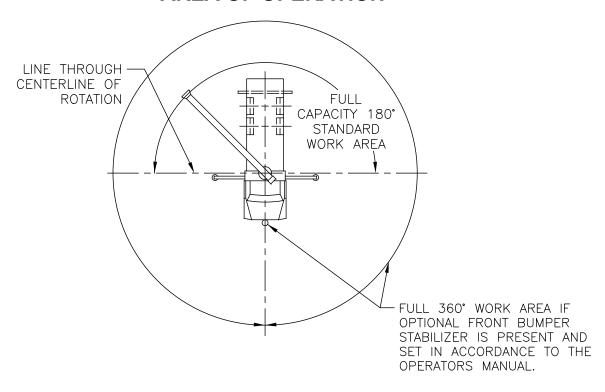
# **MAIN BOOM CAPACITIES**

| MAIN BOOM RATED LOADS  |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
|------------------------|-----------------|--------------------|----------------------------------|------------------------------|----------------------------------|--------------------------|----------------|------------------------------|----------------------------------|------------------|-------|
|                        |                 | T (RETR)<br>ODE 13 | 40 FT (A)<br>LMI CODE 13         |                              |                                  | 50 FT (B)<br>LMI CODE 13 |                | 60 FT (C)<br>LMI CODE 13     |                                  | FT (D)<br>ODE 13 |       |
| LOAD<br>RADIUS<br>(FT) | LOADED<br>BOOM  |                    | LOADED<br>BOOM<br>ANGLE<br>(DEG) | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) |                          | LOADED<br>BOOM | LIFTING<br>CAPACITY<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) |                  |       |
| 5                      | 79              | 34000              |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
| 8                      | 73              | 15870              | 79                               | 16160                        |                                  |                          |                |                              |                                  |                  |       |
| 10                     | 68              | 10270              | 76                               | 10510                        | 80                               | 10600                    |                |                              |                                  |                  |       |
| 12                     | 63              | 7340               | 73                               | 7570                         | 77                               | 7650                     | 80             | 7700                         |                                  |                  |       |
| 15                     | 55              | 4880               | 69                               | 5090                         | 74                               | 5170                     | 77             | 5220                         | 80                               | 5250             |       |
| 20                     | 40              | 2780               | 61                               | 2980                         | 68                               | 3050                     | 72             | 3100                         | 76                               | 3120             |       |
| 25                     | 12              | 1620               | 52                               | 1860                         | 61                               | 1930                     | 67             | 1970                         | 71                               | 2000             |       |
| 30                     |                 |                    | 41                               | 1160                         | 54                               | 1230                     | 62             | 1270                         | 67                               | 1290             |       |
| 35                     |                 |                    | 28                               | 670                          | 47                               | 750                      | 56             | 790                          | 62                               | 810              |       |
| 40                     |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
| 45                     |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
| 50                     |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
| 55                     |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
| 60                     |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
| 65                     |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
| 70                     |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
| 75                     |                 |                    |                                  |                              |                                  |                          |                |                              |                                  |                  |       |
|                        | 350 LBS 240 LBS |                    |                                  |                              | 190                              | LBS                      | 160            | 160 LBS                      |                                  | ) LBS            | FIXED |
|                        | 530 LBS         |                    |                                  |                              |                                  |                          |                |                              |                                  | TELESCO          |       |
|                        |                 |                    | l                                | DEDUCTION                    | ONS FO                           | OR STOW                  | ED JIE         | 3                            |                                  |                  |       |

7300086-017 NR PAGE 7 OF 10

|                | ALL                                | <b>WARNING</b>    |                         |  |  |
|----------------|------------------------------------|-------------------|-------------------------|--|--|
| 1 PART LINE    | 2 PART LINE                        | 3 PART LINE       | 4 PART LINE             | 5 PART LINE                                      | VAINING  |
| COUERHAUL BALL | SINGLE OR TRIPLE SHEAVE LOAD BLOCK | SHEAVE LOAD BLOCK | CA OB SHEAVE LOAD BLOCK | Complete or TRIPLE - AUXILIARY SHEAVE LOAD BLOCK | ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO OWNER'S MANUAL.  KEEP AT LEAST 3 WRAPS OF LOAD LINE ON DRUM AT ALL TIMES. |
| 8500 LBS       | 17000 LBS                          | 25500 LBS         | 34000 LBS               | 38000 LBS  | 9/16" - 6X25 IWRC (3.5:1 S.F.)<br>29750 LBS. BREAKING STRENGTH   |
| 7700 LBS       | 15400 LBS                          | 23100 LBS         | 30800 LBS               | 38000 LBS  | 9/16" ROT RESISTANT (5.0:1 S.F.)<br>38800 LBS. BREAKING STRENGTH   |

# **AREA OF OPERATION**



### DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX

| AUXILIARY BLOCK — — — — — | — — — — — 50 LBS                     |
|---------------------------|--------------------------------------|
| OVERHAUL BALL — — — — SEE | OVERHAUL BALL MANUFACTURER NAMEPLATE |
| LOAD BLOCK — — — — — —    | - SEE BLOCK MANUFACTURER NAMEPLATE   |
| HOSE REEL — — — — — —     | — — — — — 160 LBS                    |
| SWING AROUND JIB          | SEE LOAD CHART                       |

7300086-017 NR PAGE 8 OF 10

#### LMI OPERATING CODES

| SETTING CRANE CONFIGURATION   | OUTRIGGER CONFIGURATION   |
|---|---|
| #1— MAIN BOOM — — — — — — — — — — — — — — — — — —                               | <ul><li>FULLY EXTENDED</li><li>FULLY EXTENDED</li><li>FULLY EXTENDED</li><li>FULLY EXTENDED</li></ul> |
| #5—— PERSONNEL LIFTING PLATFORM ON MAIN BOOM——————————————————————————————————— | — FULLY EXTENDED  |
| #9— MAIN BOOM — — — — — — — — — — — — — — — — — —                               | <ul><li>INTERMEDIATE</li><li>INTERMEDIATE</li><li>INTERMEDIATE</li><li>INTERMEDIATE</li></ul>         |
| #13 — MAIN BOOM — — — — — — — — — — — — — — — — — —                             | — FULLY RETRACTED   |

### **WARNING**

- 1. THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANE.
- 2. POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN OWNER'S MANUAL.
- 3. LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO ACCOUNT FOR DEFLECTIONS. DO NOT EXCEED THE OPERATING RADIUS FOR RATED LOADS.
- 4. THE OPERATING RADIUS SHOWN IN THE JIB RATING CHART IS FOR FULLY EXTENDED BOOM ONLY. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY LOADED BOOM ANGLE TO DETERMINE LOAD RATING OF JIB.
- 5. FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
- 6. FOR BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT SHORTER OR LONGER BOOM LENGTH, WHICHEVER IS LESS. FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
- 7. CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.

7300086-017 NR PAGE 9 OF 10

## **WARNING (CONTINUED)**

- 8. PRACTICAL WORKING LOADS DEPEND ON SUPPORTING SURFACE, WIND, AND OTHER FACTORS AFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
- 9. THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE, AND BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART.
- 10. LIFTING OFF THE MAIN BOOM POINT WHILE THE SWING AROUND JIB IS ERECTED IS NOT INTENDED OR APPROVED.

### **INFORMATION**

- 1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, AND LOADBLOCKS (SEE DEDUCTION CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
- 2. LOAD RATINGS ABOVE THE HEAVY LINE ARE STRUCTURALLY LIMITED CAPACITIES. LOAD RATINGS BELOW THE HEAVY LINE ARE STABILITY LIMITED CAPACITIES AND DO NOT EXCEED 85% OF TIPPING.

#### **DEFINITIONS**

- 1. OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
- 2. LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY  $\angle$ , IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

7300086-017 NR PAGE 10 OF 10