



| LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED | | | | | | | | | | JIB LOAD RATINGS WITH OUTRIGGERS AND STABILIZERS EXTENDED | | | | | | | | | | | | | | | | | | | |
|--|------------|-------------------------|----|-------|----|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---|-------------|----------------|-------------|---------|--|--|--|---------|--|--|--|---------|--|--|--|--------------------------------------|--|--|--|
| LMI CODE #1 | | | | | | | | | | FIXED JIB | | TELESCOPIC JIB | | | | | | | | | | | | | | | | | |
| OPERATING RADIUS IN FEET | BOOM ANGLE | BOOM LENGTH AND WEIGHTS | | | | | | | | LMI CODE #2 | LMI CODE #3 | LMI CODE #4 | LMI CODE #4 | | | | | | | | | | | | | | | | |
| | | A | B | C | D | JIB LENGTH FOR ALL BOOM LENGTHS | JIB LENGTH FOR ALL BOOM LENGTHS | JIB LENGTH FOR ALL BOOM LENGTHS | JIB LENGTH FOR ALL BOOM LENGTHS | | | | | | | | | | | | | | | | | | | | |
| 5 | 80 | 60000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 75 | 39690 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 71 | 33510 | 79 | 22500 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 67 | 29120 | 77 | 22500 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 60 | 24440 | 73 | 21710 | 79 | 20590 | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 48 | 19280 | 67 | 16910 | 74 | 15830 | 78 | 14420 | 81 | 10500 | 20 | | | | | | | | | | | | | | | | | | |
| 25 | 33 | 15480 | 61 | 13850 | 70 | 12840 | 75 | 12180 | 78 | 9650 | 25 | 81 | 5300 | | | | | | | | | | | | | | | | |
| 30 | | | 54 | 11700 | 65 | 10770 | 72 | 10140 | 76 | 8670 | 30 | 79 | 5300 | | | | | | | | | | | | | | | | |
| 35 | | | 47 | 9770 | 60 | 9240 | 68 | 8640 | 73 | 7670 | 35 | 77 | 4990 | | | | | | | | | | | | | | | | |
| 40 | | | 38 | 7510 | 55 | 7720 | 64 | 7490 | 70 | 6490 | 40 | 75 | 4580 | | | | | | | | | | | | | | | | |
| 45 | | | 27 | 5910 | 50 | 6110 | 60 | 6220 | 66 | 5590 | 45 | 72 | 4190 | | | | | | | | | | | | | | | | |
| 50 | | | | | 43 | 4920 | 56 | 5030 | 63 | 4860 | 50 | 70 | 3830 | | | | | | | | | | | | | | | | |
| 55 | | | | | 36 | 3990 | 51 | 4100 | 60 | 4160 | 55 | 68 | 3480 | | | | | | | | | | | | | | | | |
| 60 | | | | | 28 | 3250 | 47 | 3360 | 56 | 3420 | 60 | 65 | 3020 | | | | | | | | | | | | | | | | |
| 65 | | | | | 15 | 2630 | 41 | 2760 | 53 | 2820 | 65 | 63 | 2630 | | | | | | | | | | | | | | | | |
| 70 | | | | | | | 36 | 2250 | 49 | 2320 | 70 | 60 | 2310 | | | | | | | | | | | | | | | | |
| 75 | | | | | | | 29 | 1820 | 45 | 1890 | 75 | 57 | 2010 | | | | | | | | | | | | | | | | |
| 80 | | | | | | | 19 | 1450 | 40 | 1530 | 80 | 54 | 1640 | | | | | | | | | | | | | | | | |
| 85 | | | | | | | | | 36 | 1210 | 85 | 51 | 1320 | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | 29 | 930 | 90 | 48 | 1050 | | | | | | | | | | | | | | | | |
| 95 | | | | | | | | | 22 | 690 | 95 | 45 | 800 | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | 100 | 42 | 580 | | | | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | 105 | | | | | | | | | | | | | | | | | | |
| 490 LBS | | | | | | | | | | 290 LBS | | | | 220 LBS | | | | 180 LBS | | | | 150 LBS | | | | DEDUCTIONS FOR STOWED FIXED JIB | | | |
| 730 LBS | | | | | | | | | | 440 LBS | | | | 330 LBS | | | | 260 LBS | | | | 220 LBS | | | | DEDUCTIONS FOR STOWED TELESCOPIC JIB | | | |

| SETTING CRANE CONFIGURATION | | SETTING CRANE WITH PERSONNEL LIFTING PLATFORM | |
|---------------------------------|--|--|---|
| #1 --- MAIN BOOM | #5 --- PERSONNEL LIFTING PLATFORM ON MAIN BOOM | #6 --- PERSONNEL LIFTING PLATFORM ON FIXED JIB | #7 --- PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB-RETRACTED |
| #2 --- FIXED JIB | #8 --- PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB-EXTENDED | | |
| #3 --- TELESCOPIC JIB-RETRACTED | | | |
| #4 --- TELESCOPIC JIB-EXTENDED | | | |

| ALLOWABLE LINE PULL | | | | | | | WARNING |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 1 PART | 2 PART | 3 PART | 4 PART | 5 PART | 6 PART | 7 PART | |
| | | | | | | | <p>ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE.</p> <p>REFER TO THE OWNER'S MANUAL.</p> <p>KEEP AT LEAST 3 WRAPS OF LOAD LINE ON THE DRUM AT ALL TIMES.</p> |
| 8500 LBS | 17000 LBS | 25500 LBS | 34000 LBS | 42500 LBS | 51000 LBS | 60000 LBS | |
| 7400 LBS | 14800 LBS | 22200 LBS | 29600 LBS | 37000 LBS | 44400 LBS | 51800 LBS | <p>9/16" 6X25 IWRC (3.5:1 SF) - 29750 LBS MIN BREAKING STRENGTH</p> <p>9/16" ROT RESISTANT (5.0:1 SF) - 37000 LBS MIN BREAKING STRENGTH</p> |

| DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX | |
|---|----------------------------------|
| AUXILIARY BLOCK | 50 LBS |
| AUXILIARY SHEAVE | 50 LBS |
| OVERHAUL BALL | SEE OVERHAUL BALL MFR. NAMEPLATE |
| LOAD BLOCK | SEE BLOCK MFR. NAMEPLATE |
| HOSE REEL | 140 LBS |
| SWING AROUND JIB | SEE LOAD CHART |

WARNING
LIFTING OFF THE MAIN BOOM POINT WHILE THE JIB IS ERECTED IS NOT INTENDED OR APPROVED.

- WARNING**
- THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANE.
 - POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN OWNER'S MANUAL.
 - 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.
 - 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.
 - BOOM MUST BE FULLY RETRACTED WHEN JIB IS ERECTED, BEFORE LOWERING BOOM THRU THIS AREA.
 - FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
 - 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.
 - 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.
 - 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.
 - 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. BOOM MUST BE FULLY RETRACTED AGAINST BOOM STOPS AT ALL TIMES WHEN LIFTING MINIMUM BOOM LENGTH CAPACITY LOADS.
- INFORMATION**
- DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, AND LOAD-BLOCKS (SEE DEDUCTION CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
 - CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS AND STABILIZERS EXTENDED AND SET WITH MACHINE LEVELED.
 - 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**
- OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
 - LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY α , IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

MODELS
30102C & 30102T
CRANE MEETS ANSI B30.5 REQUIREMENTS

180° FULL CAPACITY WORK AREA

AREA OF OPERATION

7300096-001 NR