



#### LMI OPERATING CODES

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

#### ALLOWABLE LINE PULL

| 1 PART LINE | 2 PART LINE | 3 PART LINE | 4 PART LINE | 5 PART LINE | 6 PART LINE |
|-------------|-------------|-------------|-------------|-------------|-------------|
|             |             |             |             |             |             |
| 3,86 t      | 7,71 t      | 11,57 t     | 15,42 t     | 19,28 t     | 19,96 t     |
| 3,36 t      | 6,71 t      | 10,07 t     | 13,43 t     | 16,78 t     | 19,96 t     |

**WARNING**

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.

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

|                  |     |                                  |
|------------------|-----|----------------------------------|
| AUXILIARY BLOCK  | --- | 23 Kg                            |
| OVERHAUL BALL    | --- | SEE OVERHAUL BALL MFR. NAMEPLATE |
| LOAD BLOCK       | --- | SEE BLOCK MFR. NAMEPLATE         |
| HOSE REEL        | --- | 73 Kg                            |
| SWING AROUND JIB | --- | SEE LOAD CHART                   |

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

#### LOAD RATINGS IN t WITH OUTRIGGERS AND STABILIZERS EXTENDED

LMI CODE #1

| BOOM LENGTH (m) | BOOM ANGLE |        |        |        |
|-----------------|------------|--------|--------|--------|
|                 | 7,4 m      | 12,8 m | 16,8 m | 20,7 m |
| 1,5             | 78         | 19,95  |        |        |
| 2,4             | 70         | 15,94  |        |        |
| 3,0             | 65         | 13,47  | 76     | 6,57   |
| 3,7             | 60         | 11,17  | 74     | 6,57   |
| 4,3             | 54         | 9,46   | 71     | 6,57   |
| 5,2             | 44         | 7,63   | 66     | 6,57   |
| 6,1             | 32         | 6,32   | 62     | 6,47   |
| 7,6             |            | 5,4    | 54     | 4,98   |
| 9,1             |            | 4,4    | 44     | 3,98   |
| 10,7            |            | 3,2    | 32     | 3,25   |
| 12,2            |            | 2,54   | 13     | 2,54   |
| 13,7            |            |        |        | 35     |
| 15,2            |            |        |        | 24     |
| 16,8            |            |        |        |        |
| 18,3            |            |        |        |        |
| 19,8            |            |        |        |        |
| 21,3            |            |        |        |        |
| 22,9            |            |        |        |        |
| 24,4            |            |        |        |        |
| 25,9            |            |        |        |        |
| 27,4            |            |        |        |        |
| 29,0            |            |        |        |        |
| 30,5            |            |        |        |        |
| 32,0            |            |        |        |        |
| 33,5            |            |        |        |        |
| 35,1            |            |        |        |        |

All load ratings in tonnes (t)

- 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 THROUGH 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 LONGER BOOM LENGTH. 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 LOADBLOCKS (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  $\alpha$ , IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

**MODELS**  
**2281C & 2281T**

CRANE MEETS ANSI B30.5 REQUIREMENTS

7300087-004-MET NR

