Load Rating Chart

Model 50155SHL

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.
## LMI OPERATING CODES

<table>
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<tr>
<th>CODE</th>
<th>CRANE CONFIGURATION</th>
<th>OUTRIGGER CONFIGURATION</th>
<th>AREA OF OPERATION</th>
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<td>#7</td>
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### 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 THE LOAD 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 RADI, NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.

7. CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELLED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.

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 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.

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 IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.
### ALLOWABLE LINE PULL

<table>
<thead>
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**WARNING**

ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE.

REFER TO THE OWNER’S MANUAL.

KEEP AT LEAST 3 WRAPS OF LOAD LINE ON THE DRUM AT ALL TIMES.

5/8" XLT4 LOW-TORQUE (3.5:1 SF) - 35000 LBS MIN BREAKING STRENGTH

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### AREA OF OPERATION

![Diagram showing area of operation]

THE FRONT BUMPER STABILIZER (IF SO EQUIPPED) MUST BE SET IN ACCORDANCE TO THE OPERATORS MANUAL BEFORE WORKING IN THE "FULL 360°" AREA.

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

- **AUXILIARY BLOCK**
  - 50 LBS
- **ROOSTER SHEAVE**
  - 70 LBS
- LIFTING FROM MAIN BOOM WITH JIB STOWED OR ERECTED
  - SEE LOAD CHART
- **OVERHAUL BALL**
  - SEE MANUFACTURER NAMEPLATE
- **LOAD BLOCK**
  - SEE MANUFACTURER NAMEPLATE
# Main Boom Lifting Capacities

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<th>Code 3</th>
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Deductions for Jib From Main Boom Capacities
USE THIS CHART ONLY WHEN ALL OUTRIGGER BEAMS ARE FULLY EXTENDED

PINS MUST BE DISENGAGED FOR THIS OUTRIGGER CONFIGURATION

OUTRIGGER BEAMS MUST BE EXTENDED TO MARK

MARK INDICATES BEAM IS FULLY EXTENDED

279.00 REF (23°-3°F REF)

MAIN BOOM LIFTING CAPACITIES

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<th>Loaded Boom Angle (Deg)</th>
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STOWED JIB 340 LBS
ERECTED JIB 2050 LBS

DEDUCTIONS FOR JIB FROM MAIN BOOM CAPACITIES

7300106-021 NR PAGE 7 OF 9
USE THIS CHART ONLY WHEN ALL OUTRIGGER BEAMS ARE IN THE MID POSITION

PINS MUST BE ENGAGED FOR THIS OUTRIGGER CONFIGURATION

OUTRIGGER BEAMS MUST BE EXTENDED TO MARK

MARK INDICATES BEAM IS FULLY EXTENDED

184.38 REF (15'-4 3/8" REF)

MAIN BOOM LIFTING CAPACITIES

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STOWED: 960 590 500 430 390 340 310 280 260 240

DEDUCTIONS FOR JIB FROM MAIN BOOM CAPACITIES (LBS)
USE THIS CHART ONLY WHEN ALL OUTRIGGER BEAMS ARE FULLY EXTENDED

PINS MUST BE DISENGAGED FOR THIS OUTRIGGER CONFIGURATION

OUTRIGGER BEAMS MUST BE EXTENDED TO MARK

MARK INDICATES BEAM IS FULLY EXTENDED

279.00 REF (23'-3" REF)

39 FT FIXED JIB LIFTING CAPACITIES

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