Load Rating Chart



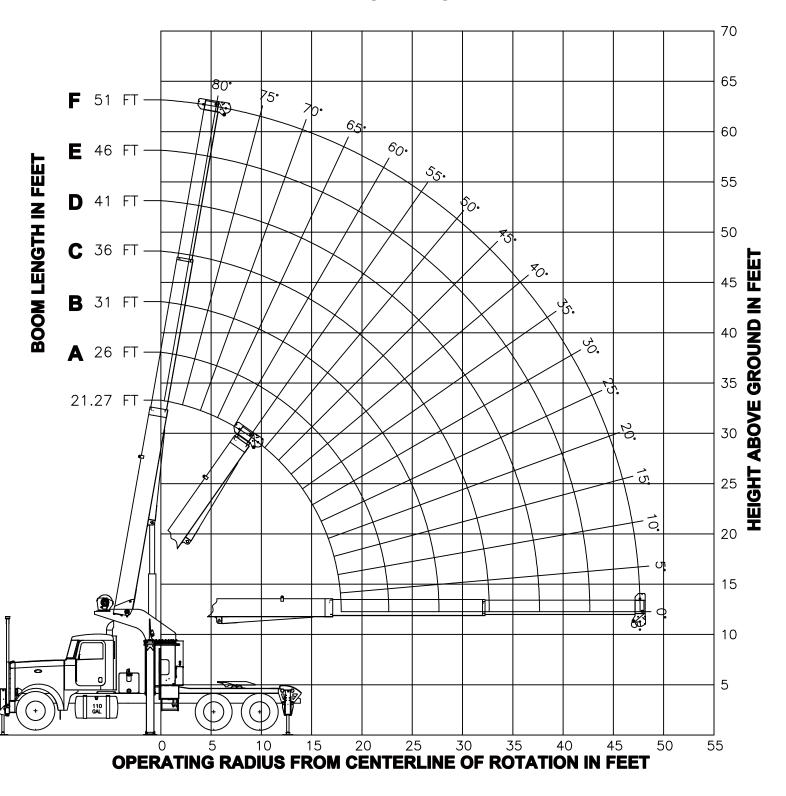
Model 3051T



@ Manitex

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

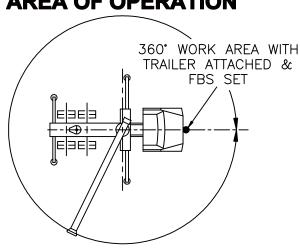


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MAIN BOOM LMI CODE 1

| SOLO | 21.2 | 21.27 FT | | 26 FT (A) | | 31 FT (B) | | 36 FT (C) | | 41 FT (D) | | 46 FT (E) | | 51 FT (F) | |
|---------------------|----------------------------------|---------------------------|----------------------------------|-------------------------------------|----------------------------------|---------------------------|----------------------------------|---------------------------|----------------------------------|---------------------------|----------------------------------|---------------------------|----------------------------------|---------------------------|---------------------|
| LOAD RADIUS (FT) | LOADED BOOM ANGLE (DEG) | LOAD CAPACITY (LBS) | LOADED BOOM ANGLE (DEG) | CODE 1 LOAD CAPACITY (LBS) | LOADED BOOM ANGLE (DEG) | LOAD CAPACITY (LBS) | LOAD RADIUS (FT) |
| 5 | 70 | 60000 | | | | | | | | | | | | | 5 |
| 8 | 60.5 | 43700 | 66.5 | 41700 | 71 | 40100 | 74 | 38900 | 76.5 | 38000 | | | | | 8 |
| 10 | 54 | 38200 | 61.5 | 36400 | 67 | 35200 | 70.5 | 34100 | 73.5 | 33200 | 75.5 | 32200 | 77 | 28520 | 10 |
| 12 | 47 | 34300 | 56.5 | 32700 | 62.5 | 31200 | 67 | 30100 | 70.5 | 29250 | 73 | 28540 | 75 | 25800 | 12 |
| 14 | 38.5 | 30700 | 50.5 | 29440 | 58.5 | 28160 | 63.5 | 27110 | 67.5 | 26640 | 70.5 | 25940 | 72.5 | 23780 | 14 |
| 16 | 27.5 | 27160 | 44.5 | 26760 | 53.5 | 25990 | 60 | 25010 | 64 | 24190 | 67.5 | 23520 | 70.5 | 21820 | 16 |
| 18 | | | 37.5 | 24640 | 49 | 23840 | 56 | 22960 | 61 | 22200 | 65 | 21550 | 68 | 20190 | 18 |
| 20 | | | 28.5 | 22260 | 43.5 | 21980 | 52 | 21230 | 57.5 | 20530 | 62 | 19910 | 65.5 | 18520 | 20 |
| 25 | | | | | 26.5 | 17760 | 40.5 | 17770 | 48.5 | 17570 | 54.5 | 17070 | 58.5 | 15410 | 25 |
| 30 | | | | | | | 24.5 | 13170 | 38 | 13260 | 46 | 13310 | 51.5 | 12950 | 30 |
| 35 | | | | | | | | | 23 | 10240 | 36 | 10310 | 44 | 10350 | 35 |
| 40 | | | | | | | | | | | 22 | 8270 | 34.5 | 8320 | 40 |
| 45 | | | | | | | | | | | | | 21 | 6860 | 45 |
| 50 | | | | · | | | | | | | | | | | 50 |

AREA OF OPERATION



| | WARNING | | | | | | |
|--------------------------------|---------------------|---------------------|---|---------------------|--------------------------------|---------------------|---|
| 1 PART LINE | 2 PART LINE | 3 PART LINE | 4 PART LINE | 5 PART LINE | 6 PART LINE | 7 PART LINE | |
| Coc Matter Co o OVERHAUL COLOR | SINGLE SHEAVE BLOCK | SINGLE SHEAVE BLOCK | CA OB CA OB CA OB OB CA OB OB CA OB OB CA | TRIPLE SHEAVE BLOCK | G o o company the sheave block | TRIPLE SHEAVE BLOCK | 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. |
| 8500 LBS | 17000 LBS | 25500 LBS | 34000 LBS | 42500 LBS | 51000 LBS | 60000 LBS | 9/16" 6X25 IWRC (3.5:1 SF) — 29750 LBS MIN BREAKING STRENGTH |
| 7700 15400 LBS LBS | | 23100 LBS | 30800 LBS | 38500 LBS | 46200 LBS | 53900 LBS | 9/16" ROT RESISTANT (5.0:1 SF) — 38500 LBS MIN BREAKING STRENGTH |

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| ı | DEDUCTIONS FROM RATED LOADS FO | OR LOAD HANDLING D | EVICES SUPPLIED BY MANITEX |
|------|--|--|---|
| | AUXILIARY BLOCK — — — — — AUXILIARY SHEAVE — — — — — — — — — LOAD BLOCK — — — — — — — — SWING AROUND JIB — — — — — | – — — — — — SEE OVERHAUL BA - — — SEE BLOG | 50 LBS LL MANUFACTURER NAMEPLATE |
| | LMI (| OPERATING CODES | |
| | G CRANE CONFIGURATION | | OUTRIGGER CONFIGURATION |
| #1- | MAIN BOOM | | — — — FULLY EXTENDED |
| WARN | IING THE OPERATOR MUST READ AND UN | IDEDCTAND THE OWNE | ID'S MANUAL DEFORE OREDATING |
| 2. | THIS CRANE. POSITIONING OR OPERATION OF CRA | ANE BEYOND AREAS S | HOWN ON THIS CHART IS NOT |
| 3. | | D BOOM LENGTHS GIV GLE BEFORE LOADING | 'E ONLY AN APPROXIMATION OF THE SHOULD BE GREATER TO ACCOUNT |
| 4. | THE OPERATING RADIUS SHOWN IN ONLY. WHEN BOOM IS NOT FULLY DETERMINE LOAD RATING OF JIB. | THE JIB RATING CHAF | RT IS FOR FULLY EXTENDED BOOM |
| | | | |

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.

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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.

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