



# BOOM TRUCK XCT60\_U

Less Flex, More Lift



60 USt



154 ft



137.8 ft



207.5 ft



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# WHERE IT COUNTS: THE BOOM

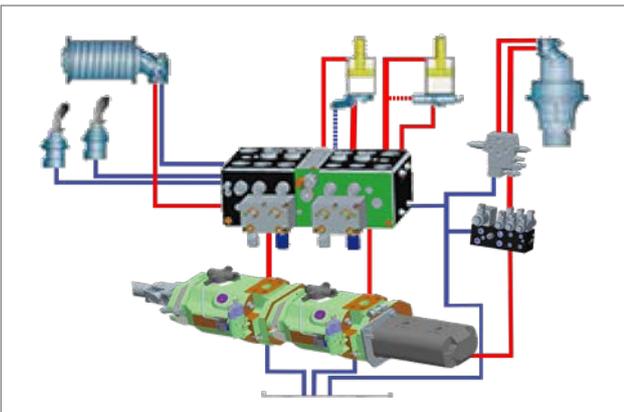
## THE LONGEST BOOM IN THE 60-TON CLASS.

- 39.4–154 ft full power five-section boom outreaches every 60-ton boom truck on the market.
- Optional fixed jib from 30.5–53.5 ft for extended reach when the job demands it.
- 0°, 15° and 30° jib offset angles.

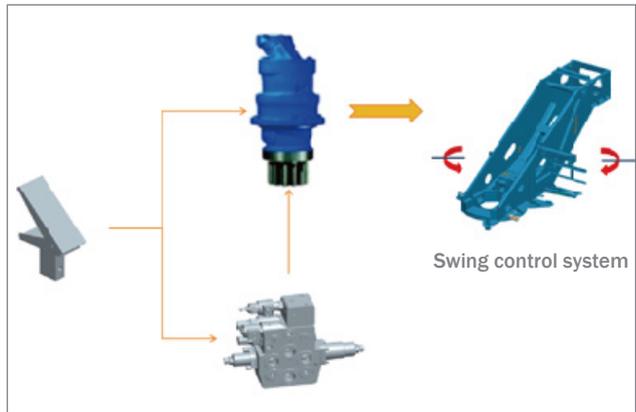


## PRECISE HYDRAULICS | EFFICIENT PERFORMANCE

- Energy-saving, load sense hydraulic system for boom and winch functions.
- High-power hydraulic oil independent cooling system, promoting the working efficiency and reliability.
- Separate pumps for winch, boom and swing for interaction free multi function operation. Flows can be combined for higher speeds when needed.
- Free and braked swing modes for precise swing control.



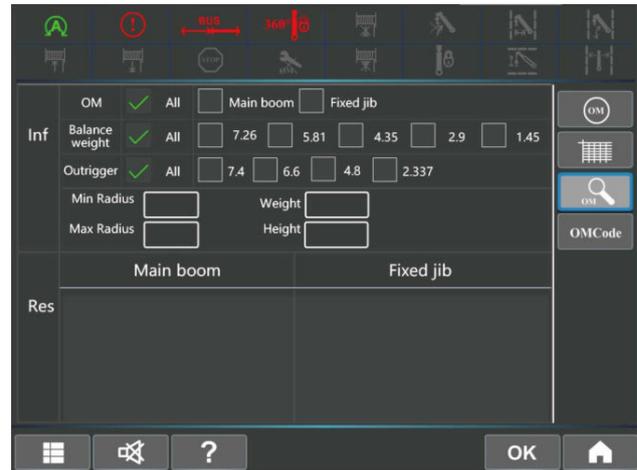
Precise hydraulic system



Foot pedal

## LOAD PLANNING

- LMI includes load chart lookup based on load, radius, and height.
- Simplified lift planning helps match crane configuration to load conditions.



## REMOTE CONTROL

- Outrigger wireless remote control.
- Wireless remote control for main winch and boom luffing. The power switch on the subframe eliminates the need to climb into the cab for crane setup.
- Optional upper wireless remote control for all craning functions.

## BOOM TIP CAMERA

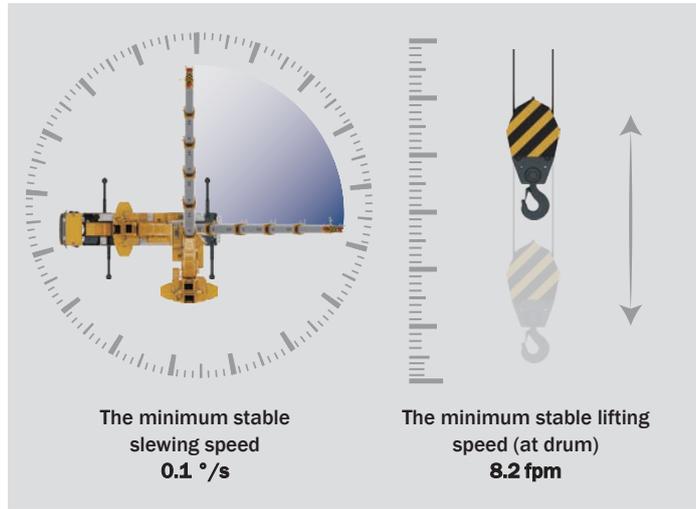
- Optional boom tip camera gives the operator a clear view of the load when line of sight is obstructed.



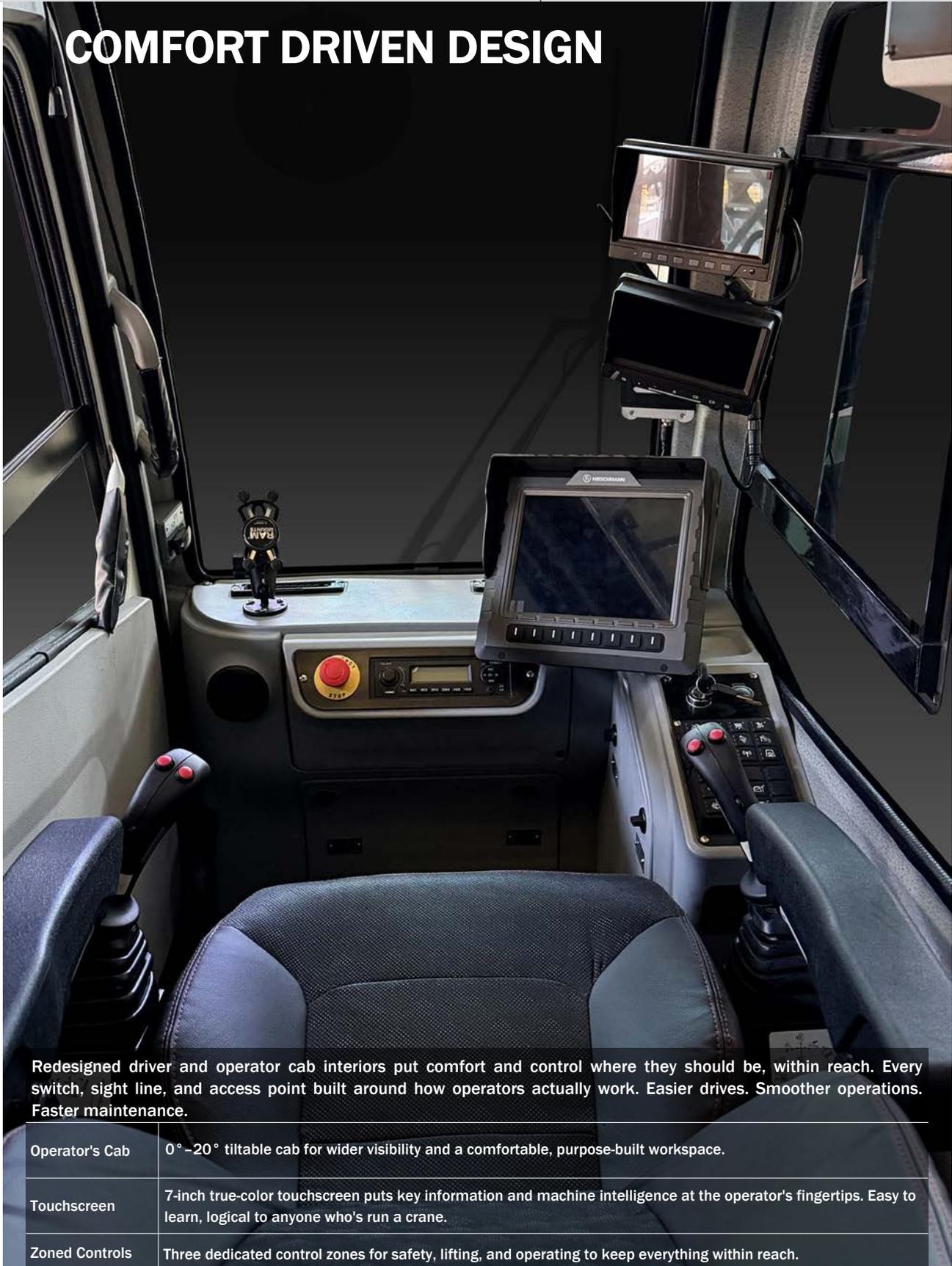
# HIGH WORKING EFFICIENCY, BETTER STABILITY

## PRECISE LIFTING OPERATION

- Dual load sense variable displacement pumps.
- Minimum stable winch speed 8.2 fpm, and minimum stable slewing speed  $0.1^\circ/\text{s}$ .
- Hydraulic pilot operated controls for accurate and precise control.
- All this to optimize fine control along with providing strong and fast performance.



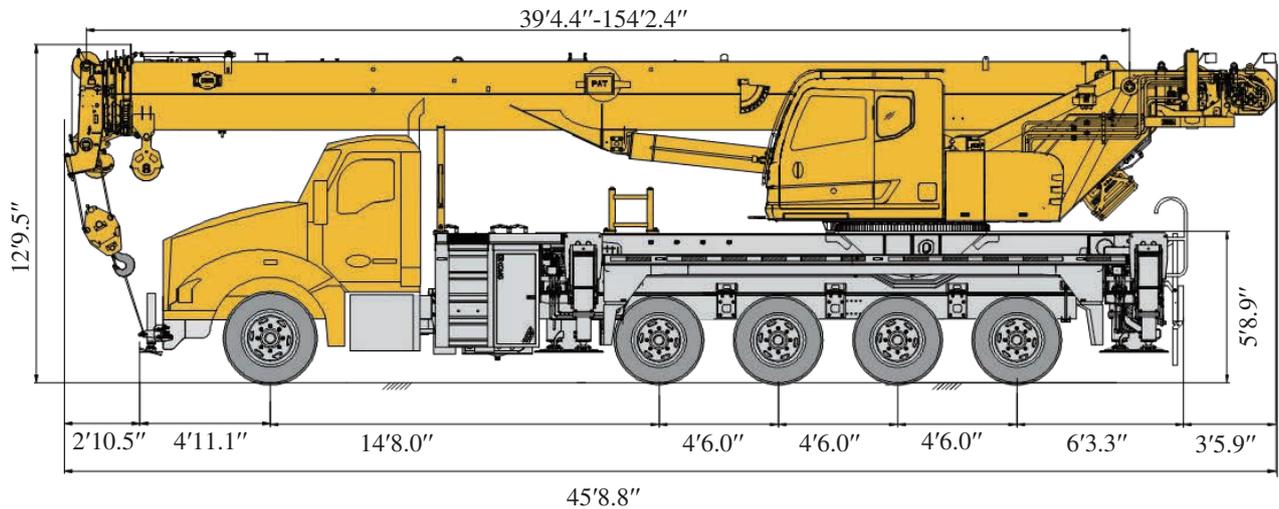
# COMFORT DRIVEN DESIGN



Redesigned driver and operator cab interiors put comfort and control where they should be, within reach. Every switch, sight line, and access point built around how operators actually work. Easier drives. Smoother operations. Faster maintenance.

|                |   |
|----------------|---|
| Operator's Cab | 0°–20° tiltable cab for wider visibility and a comfortable, purpose-built workspace.  |
| Touchscreen    | 7-inch true-color touchscreen puts key information and machine intelligence at the operator's fingertips. Easy to learn, logical to anyone who's run a crane. |
| Zoned Controls | Three dedicated control zones for safety, lifting, and operating to keep everything within reach.   |

# DIMENSIONS

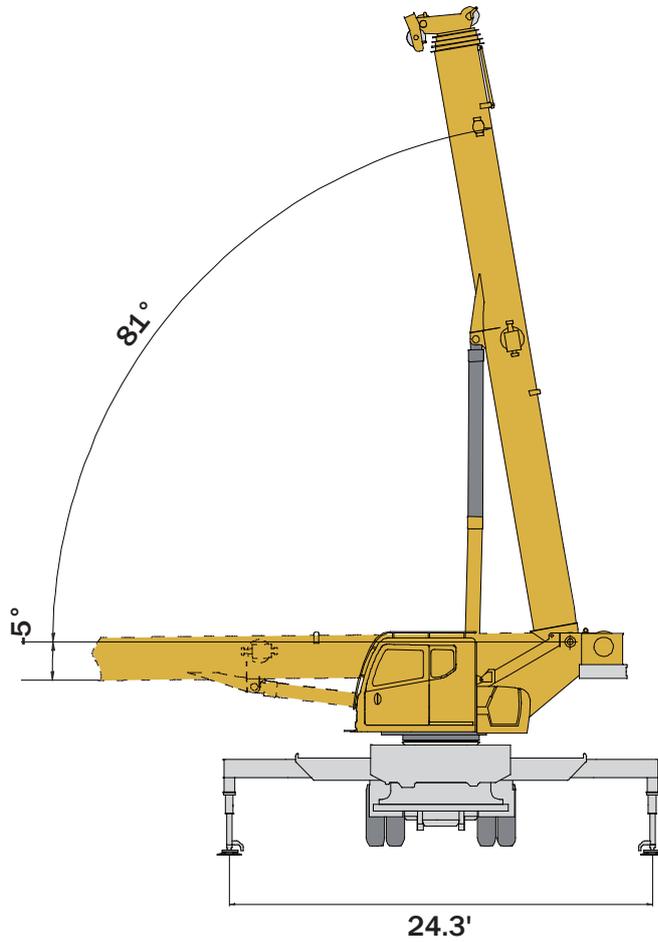


| CHASSIS DATA | STEER AXLE GROSS WEIGHT RATING | PUSHER AXLE GROSS WEIGHT RATING | TRIDEM GROSS WEIGHT RATING |
|--------------|--------------------------------|---------------------------------|----------------------------|
| Weight       | 20000 lb                       | 13220 lb                        | 69000 lb                   |

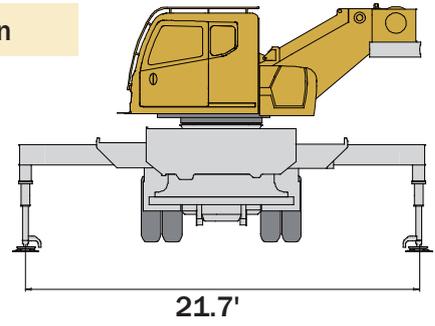


| HOOK BLOCK | NO. OF SHEAVES | PARTS OF LINE | WEIGHT  | REMARKS     |
|------------|----------------|---------------|---------|-------------|
| 60 USt     | 6              | 12            | 1232 lb | Single hook |
| 40 USt     | 4              | 8             | 794 lb  | Single hook |
| 27.5 USt   | 3              | 6             | 598 lb  | Single hook |
| 15 USt     | 1              | 3             | 400 lb  | Single hook |
| 5.5 USt    | —              | 1             | 220 lb  | Single hook |

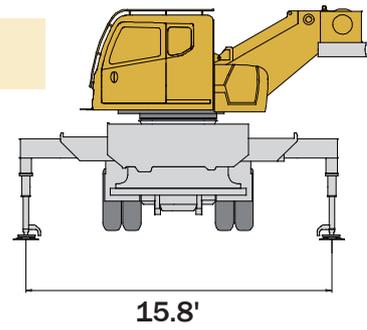
Fully Extended Outriggers



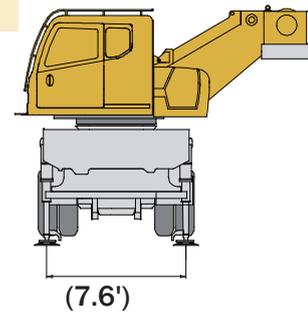
21.7' Span



15.8' Span



7.6' Span



# WORKING SPEEDS

|   |  Max |  F |
|--|---|---|
|   | 0-394 fpm single line 4th layer   | 11,023 lb   |
|   | 0-394 fpm single line 4th layer   | 11,023 lb   |
|   | 0-1.2 rpm   |   |
|   | Approximately 40s for boom luffing from -5° to 81°                                    |   |
|  | Approximately 80s for boom extending from 39.4 ft to 154 ft                           |   |

| <b>INTERMEDIATE FRAME</b> |  |
|---------------------------|--|
| <b>Subframe</b>           | Designed and manufactured by XCMG. Made of high strength steel with an inverted trapezoid cross section. All walking surfaces are anti-slip.   |
| <b>Outriggers</b>         | H-type, out and down outriggers with 5th jack at front bumper. Outrigger control via standard wireless remote control and backup manual valve. Outrigger pads stored under outriggers. Level indicator provided on each side and at rear of crane as well as in the LMI.<br>Span: 21.3 ft×24.3 ft<br>21.3 ft×21.7 ft<br>21.3 ft×15.8 ft<br>21.3 ft×7.6 ft  |
| <b>SUPERSTRUCTURE</b>     |  |
| <b>Subframe</b>           | Designed and manufactured by XCMG, made of high-strength steel.  |
| <b>Hydraulic System</b>   | Variable displacement pumps are used for winching, luffing, and telescoping; a gear pump is used for slewing and outriggers. Separate gear pump used for HVAC. Load-sensing proportional multi-way directional control valve controlled by pilot hydraulic oil. Includes a standard hydraulic oil cooler to control oil temperature in the most demanding applications.<br>Effective volume of oil tank: 158.5 GAL.  |
| <b>Control System</b>     | Hydraulic pilot joysticks. Standard LMI display includes crane set up, lift parameters, load charts, lift planning, virtual wall, and fault diagnosis.   |
| <b>Main Winch System</b>  | Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake. Including load hold balance valve and a grooved drum and standard rotation-resistant lift rope.  |
| <b>Operator's Cab</b>     | New cab design with more room. Fully-enclosed steel structure with large windows and is tiltable. Safety glass is used for all windows and sun shades are fitted. Wipers are fitted for the windshield and roof window. Standard controls and indicators are ergonomically arranged in the cab. The cab features a new ergonomic seat design with adjustable backrest and armrests that include joysticks. A sliding door and an electric control pull-out step to facilitate easy and safe access to the cab. |
| <b>Slewing System</b>     | Pilot hydraulic controls a directional valve with built in brake and free swing functions. The system is driven by a piston hydraulic motor through a planetary gear reducer, with a normally closed brake.  |
| <b>Operational Aids</b>   | Hydraulic balance valve on outrigger jacks, boom hoist and extension cylinders and winch motors. Hydraulic relief valves on all functions, LMI, 3rd wrap limiter, and anti-two block at boom head.   |
| <b>LMI</b>                | The LMI is installed in the control box with its display mounted in the operator's cab. When the load moment approaches overload value, it will send out visual and audible alarms, and automatically stops dangerous movements before overloading. Overload memory function (black box) and fault self-diagnosis functions are built into the system.   |
| <b>Counterweight</b>      | Total weight is 16,000 lb, 12,800 lb are self installing/removing.   |
| <b>Hook Block</b>         | Hook block 27.5 USt, 5.5 USt   |

# TECHNICAL SPECIFICATIONS



## BOOM SYSTEM

|                         |  |
|-------------------------|--|
| <b>Boom</b>             | 5-section, U-shape cross section welded structure. A dual-cylinder and cable telescoping system. The two double-acting cylinders are controlled separately to give 2 mode operation and are fitted with load holding valves.<br>Boom length: 39.4~154 ft<br>Boom angle: -5°~81°. |
| <b>Auxiliary sheave</b> | Fitted at boom head, used for 8 parts of line and single line operation. Its lifting performance is the same as that for boom, but the maximum lifting load cannot exceed 11,023 lb.   |

## OPTIONAL EQUIPMENT

|                               |   |
|-------------------------------|---|
| <b>Auxiliary Winch System</b> | Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake. It is equipped with a counterbalance valve, grooved drum and rotation resistant rope. |
| <b>Control System</b>         | Main winch and boom elevation wireless remote control.  |
| <b>Fixed Jib</b>              | The jib consists of a connecting bracket, a mechanical link and two lattice sections.<br>Three offset angles of 0°, 15° and 30° are available.<br>Jib length: 30.5 ft and 53.5 ft   |
| <b>Hook Block</b>             | Hook block 60 USt, 40 USt, 15 USt.  |
| <b>Boom Tip Camera</b>        | Camera on boom head, with screen in operator's cab.   |
| <b>Slewing Lock</b>           | 360° slewing lock.  |

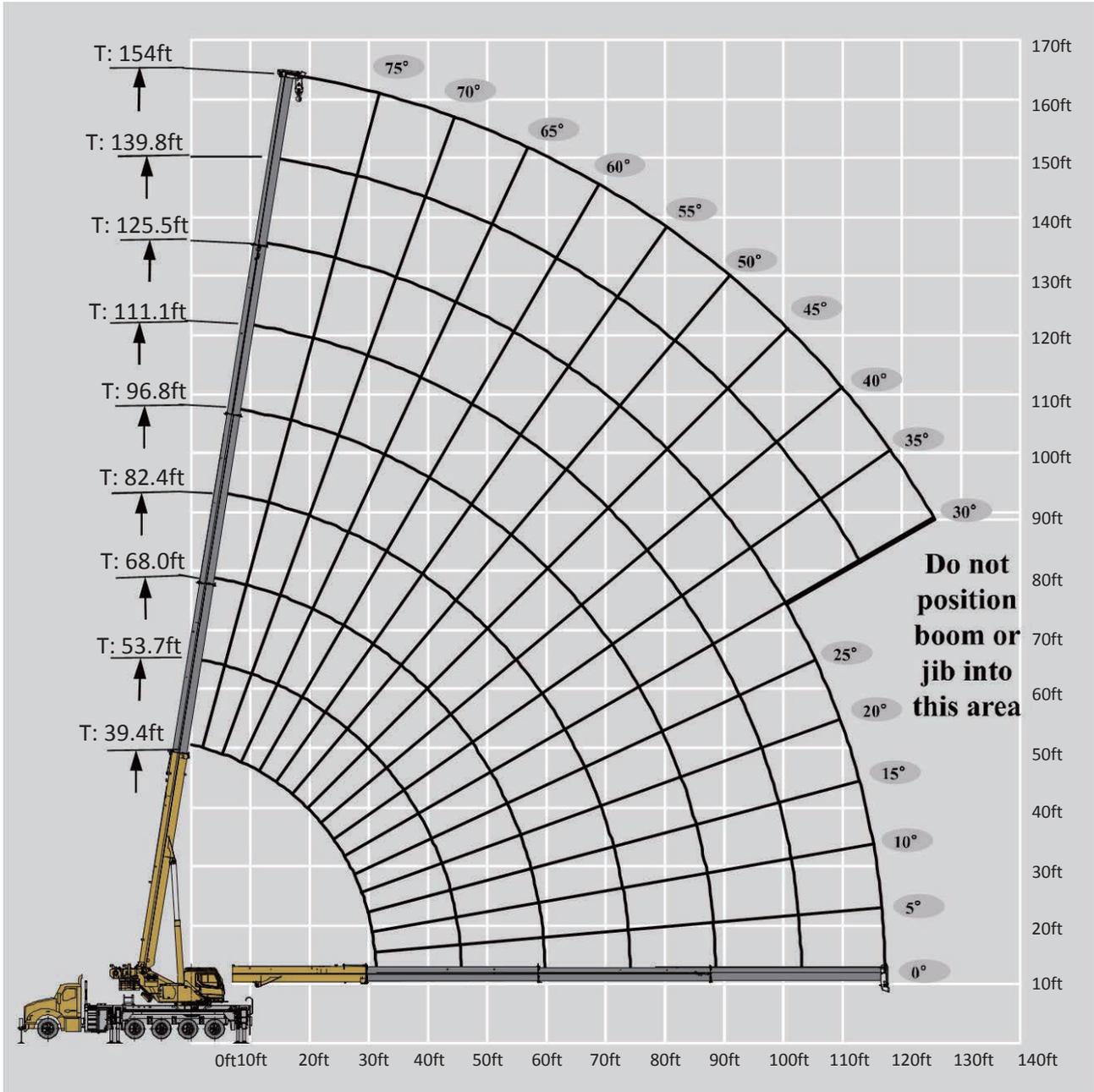
Other items of equipment available on request.

| BOOM              | BOOM + ONE JIB SECTION  | BOOM + TWO JIB SECTIONS |
|-------------------|-------------------------|-------------------------|
| T: 39.4 ft~154 ft | T: 154 ft<br>J: 30.5 ft | T: 154 ft<br>J: 53.5 ft |

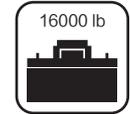
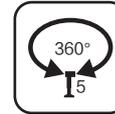
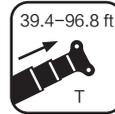


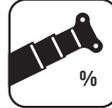
# WORKING RANGE DIAGRAM

## BOOM



**T 39.4~96.8 ft**  
**ASME B30.5 85% Units:lb**

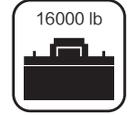
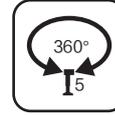


|    | 39.4ft  | 53.7ft | 53.7ft | 68ft   | 68ft   | 68ft   | 82.4ft | 82.4ft | 82.4ft | 96.8ft | 96.8ft |    |
|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| 5.0   | 120,000 |        |        |        |        |        |        |        |        |        |        | 5.0   |
| 6.6   | 110,220 |        |        |        |        |        |        |        |        |        |        | 6.6   |
| 8.2   | 101,410 |        |        |        |        |        |        |        |        |        |        | 8.2   |
| 9.8   | 92,590  |        |        |        |        |        |        |        |        |        |        | 9.8   |
| 11.5  | 88,180  | 52,910 | 70,540 |        |        |        |        |        |        |        |        | 11.5  |
| 13.1  | 77,160  | 52,910 | 68,780 | 50,040 | 50,700 | 45,850 |        |        |        |        |        | 13.1  |
| 14.8  | 70,540  | 52,910 | 63,710 | 50,040 | 50,700 | 45,850 | 45,850 | 42,320 | 43,870 |        |        | 14.8  |
| 16.4  | 69,220  | 52,910 | 58,640 | 50,040 | 50,700 | 45,190 | 45,850 | 40,560 | 41,000 |        |        | 16.4  |
| 19.7  | 59,520  | 52,910 | 50,920 | 46,510 | 50,700 | 39,680 | 43,200 | 37,250 | 35,930 | 39,020 | 26,450 | 19.7  |
| 23.0  | 46,510  | 52,910 | 45,410 | 40,780 | 50,700 | 34,610 | 37,910 | 34,390 | 31,960 | 34,830 | 23,580 | 23.0  |
| 26.2  |         | 47,170 | 40,340 | 36,370 | 48,050 | 30,860 | 33,730 | 31,960 | 28,210 | 31,960 | 21,820 | 26.2  |
| 29.5  |         | 38,800 | 35,710 | 33,280 | 39,680 | 27,990 | 30,860 | 30,200 | 25,350 | 29,100 | 20,060 | 29.5  |
| 32.8  |         | 32,620 | 29,760 | 30,420 | 33,500 | 25,130 | 27,990 | 28,430 | 22,920 | 26,230 | 18,730 | 32.8  |
| 39.4  |         |        |        | 22,920 | 25,130 | 20,720 | 23,580 | 24,470 | 18,950 | 22,260 | 16,310 | 39.4  |
| 45.9  |         |        |        | 17,630 | 19,620 | 15,430 | 18,510 | 20,060 | 15,870 | 18,730 | 14,550 | 45.9  |
| 52.5  |         |        |        |        |        |        | 14,770 | 16,310 | 13,000 | 15,210 | 12,560 | 52.5  |
| 59.1  |         |        |        |        |        |        | 11,900 | 13,440 | 10,140 | 12,340 | 11,240 | 59.1  |
| 65.6  |         |        |        |        |        |        |        |        |        | 10,140 | 10,140 | 65.6  |
| 72.2  |         |        |        |        |        |        |        |        |        | 8,370  | 9,470  | 72.2  |
| Boom angle<br>0°  | 23,140  | 13,440 | 11,680 | 7,490  | 8,810  | 6,170  | 5,290  | 6,170  | 3,960  | 3,740  | 4,620  |   |
|  | 0       | 0%     | 50%    | 50%    | 0      | 100%   | 50%    | 0      | 100%   | 50%    | 0      |  |
|   | 0       | 16.70% | 0%     | 16.70% | 33.30% | 0      | 33.30% | 50%    | 16.70% | 50%    | 66.70% |   |
|   | 0       | 16.70% | 0%     | 16.70% | 33.30% | 0      | 33.30% | 50%    | 16.70% | 50%    | 66.70% |   |
|   | 0       | 16.70% | 0%     | 16.70% | 33.30% | 0      | 33.30% | 50%    | 16.70% | 50%    | 66.70% |   |

# LOAD CHARTS

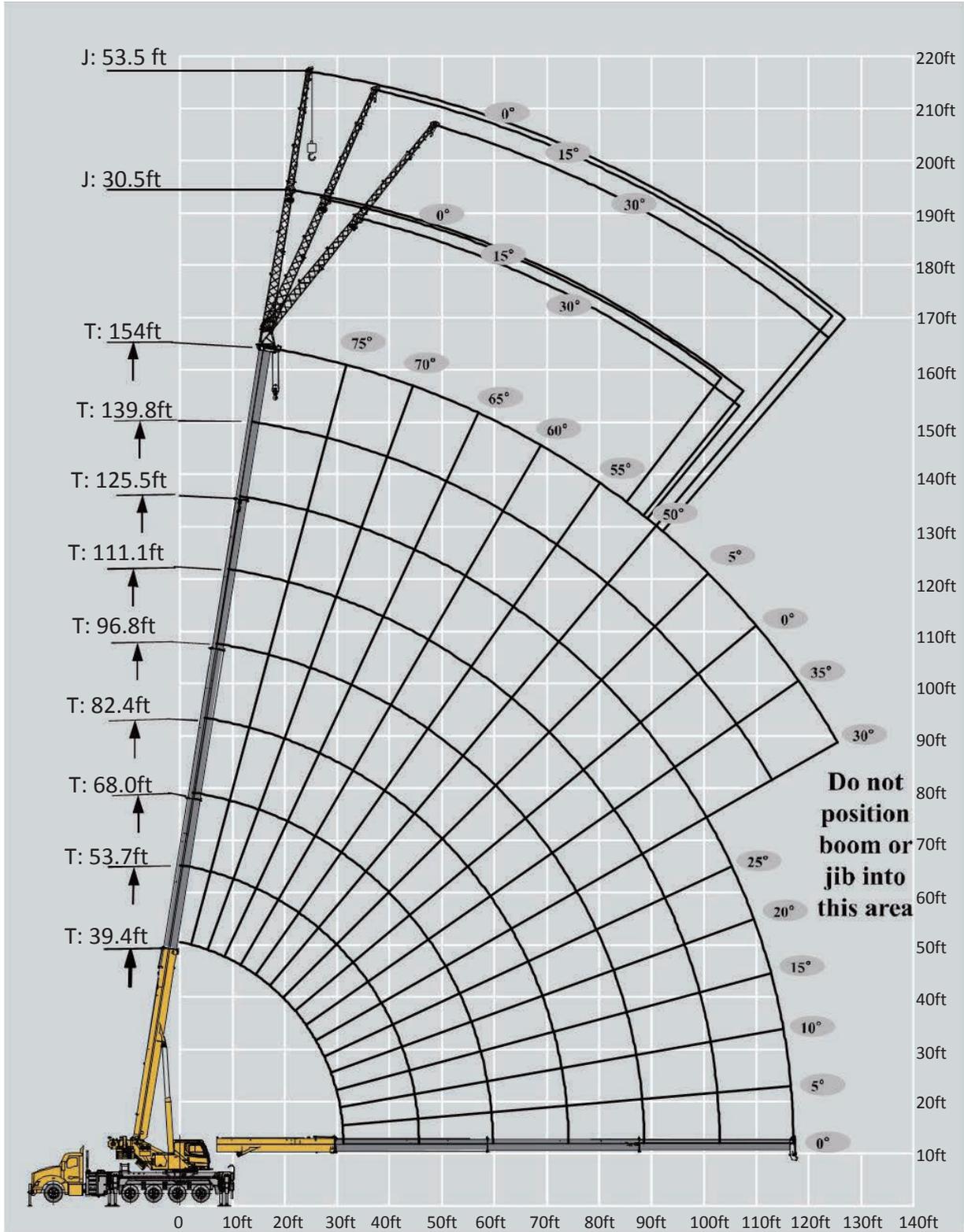
**T 96.8~154 ft**

**ASME B30.5 85% Units:lb**



|                  | 96.8ft | 111.1ft | 111.1ft | 111.1ft | 125.5ft | 125.5ft | 125.5ft | 139.8ft | 139.8ft | 154ft  |       |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|-------|
| 19.7             | 32,840 |         |         |         |         |         |         |         |         |        | 19.7  |
| 23.0             | 28,880 |         |         |         |         |         |         |         |         |        | 23.0  |
| 26.2             | 26,010 | 22,700  | 18,950  | 23,360  |         |         |         |         |         |        | 26.2  |
| 29.5             | 23,800 | 21,380  | 17,630  | 21,600  | 17,850  | 15,650  | 18,510  |         |         |        | 29.5  |
| 32.8             | 22,040 | 20,280  | 16,530  | 19,840  | 16,970  | 14,320  | 17,190  | 14,320  | 14,770  | 11,460 | 32.8  |
| 39.4             | 18,070 | 17,850  | 14,320  | 16,970  | 15,210  | 13,000  | 14,770  | 13,000  | 13,000  | 11,020 | 39.4  |
| 45.9             | 15,210 | 15,650  | 12,780  | 14,100  | 13,440  | 11,240  | 13,220  | 11,680  | 11,680  | 9,920  | 45.9  |
| 52.5             | 13,000 | 14,100  | 11,240  | 12,120  | 12,340  | 10,140  | 11,900  | 10,580  | 10,360  | 9,030  | 52.5  |
| 59.1             | 11,020 | 12,780  | 9,920   | 10,800  | 10,580  | 9,030   | 10,140  | 9,470   | 9,250   | 8,150  | 59.1  |
| 65.6             | 8,810  | 10,580  | 8,810   | 9,250   | 9,700   | 8,150   | 8,810   | 8,150   | 7,930   | 7,270  | 65.6  |
| 72.2             | 7,050  | 8,810   | 8,150   | 7,710   | 8,590   | 7,490   | 7,490   | 7,490   | 7,270   | 6,390  | 72.2  |
| 78.7             |        | 7,270   | 7,270   | 6,170   | 7,710   | 6,830   | 6,610   | 6,830   | 6,390   | 5,730  | 78.7  |
| 85.3             |        | 6,170   | 6,610   | 5,070   | 6,390   | 6,170   | 5,510   | 6,170   | 5,730   | 4,850  | 85.3  |
| 91.9             |        |         |         |         | 5,510   | 5,510   | 4,400   | 5,510   | 4,620   | 4,620  | 91.9  |
| 98.4             |        |         |         |         | 4,620   | 5,290   | 3,520   | 4,850   | 3,740   | 3,960  | 98.4  |
| 105.0            |        |         |         |         |         |         |         | 3,960   | 3,080   | 3,300  | 105.0 |
| 111.5            |        |         |         |         |         |         |         | 3,300   | 2,420   | 2,640  | 111.5 |
| 118.1            |        |         |         |         |         |         |         | 2,640   | 1,760   | 1,980  | 118.1 |
| 124.7            |        |         |         |         |         |         |         |         |         | 1,540  | 124.7 |
| 131.2            |        |         |         |         |         |         |         |         |         | 1,100  | 131.2 |
| Boom angle<br>0° | 2,640  | 2,640   | 3,300   | 1,760   | 1,760   | 2,200   | 1,100   |         |         |        |       |
|                  | 100%   | 50%     | 0       | 100%    | 50%     | 0       | 100%    | 50%     | 100%    | 100%   |       |
|                  | 33.30% | 66.70%  | 83.30%  | 50%     | 83.30%  | 100%    | 66.70%  | 100%    | 83.30%  | 100%   |       |
|                  | 33.30% | 66.70%  | 83.30%  | 50%     | 83.30%  | 100%    | 66.70%  | 100%    | 83.30%  | 100%   |       |

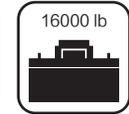
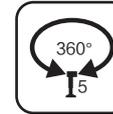
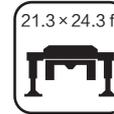
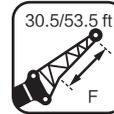
# BOOM



**T 154 ft**

**ASME B30.5 85%**

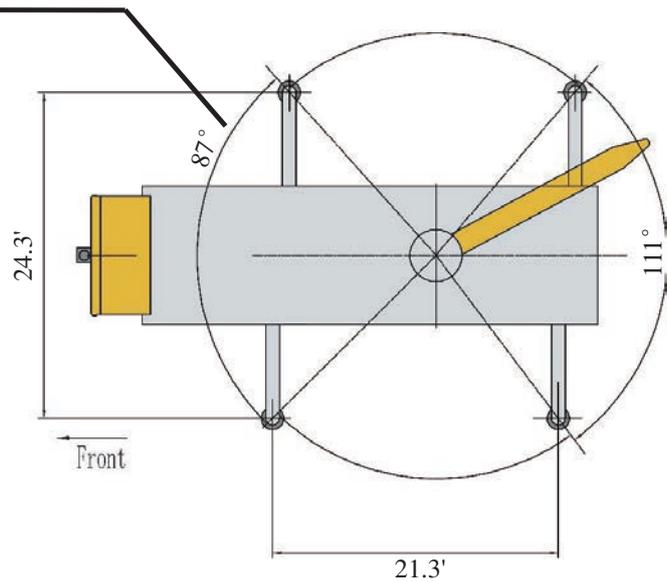
**Units:lb**



|  | 154 ft  |       |       | 154 ft  |       |       |  |
|---|---------|-------|-------|---------|-------|-------|---|
|   | 30.5 ft |       |       | 53.5 ft |       |       |   |
|   | 0°      | 15°   | 30°   | 0°      | 15°   | 30°   |   |
| 45.9  | 7,050   |       |       | 5,290   |       |       | 45.9  |
| 52.5  | 7,050   | 7,050 |       | 5,290   |       |       | 52.5  |
| 59.1  | 7,050   | 6,390 | 4,400 | 5,070   | 3,300 |       | 59.1  |
| 65.6  | 5,730   | 5,510 | 4,180 | 4,620   | 3,080 |       | 65.6  |
| 72.2  | 4,850   | 4,850 | 3,960 | 4,400   | 3,080 | 1,980 | 72.2  |
| 78.7  | 4,400   | 4,400 | 3,960 | 3,960   | 2,640 | 1,980 | 78.7  |
| 85.3  | 3,960   | 3,740 | 3,740 | 3,740   | 2,640 | 1,760 | 85.3  |
| 91.9  | 3,300   | 3,300 | 3,520 | 3,080   | 2,420 | 1,540 | 91.9  |
| 98.4  | 2,860   | 2,860 | 2,860 | 2,640   | 2,640 | 1,540 | 98.4  |
| 105.0   | 2,420   | 2,420 | 2,420 | 2,200   | 2,420 | 1,540 | 105.0   |
| 111.5   | 2,200   | 2,200 | 1,980 | 1,980   | 2,200 | 1,320 | 111.5   |
| 118.1   | 1,760   | 1,760 | 1,760 | 1,760   | 1,760 |       | 118.1   |
| 124.7   |         |       |       | 1,540   | 1,540 |       | 124.7   |
| 131.2   |         |       |       |         | 1,540 |       | 131.2   |
| 137.8   |         |       |       |         | 1,100 |       | 137.8   |

# WORKING AREAS

For full 360° rotation, the fifth jack must be set per the operator's manual and the machine must be level. Without the fifth jack properly set, the crane can only be operated with the boom over side or over rear.



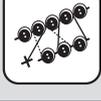
# REEVING DIAGRAM

| ALLOWABLE LINE PULL |                 |                 |                 |                 |                 |                 |                | WARNING  |
|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|--|
| 8 parts of line     | 7 parts of line | 6 parts of line | 5 parts of line | 4 parts of line | 3 parts of line | 2 parts of line | 1 part of line |  |
|                     |                 |                 |                 |                 |                 |                 |                | Refer to the owners manual   |
|                     |                 |                 |                 |                 |                 |                 |                | Incorrect reeving or incorrect input of parts of line may result in serious accidents. |
|                     |                 |                 |                 |                 |                 |                 |                | Keep at least three turns of rope left on the drum at all times                        |
| 82,252 lb           | 72,683 lb       | 62,913 lb       | 52,954 lb       | 42,787 lb       | 32,412 lb       | 21,826 lb       | 11,023 lb      | Min. breaking strength<br>56,217 lb  |

| CATEGORY   | ITEM   |                       | UNIT      | PARAMETER    |
|------------|--|-----------------------|-----------|--------------|
| Dimensions | Overall length   |                       | in        | 548.8        |
|            | Overall width  |                       | in        | 102          |
|            | Overall height   |                       | in        | 153.5        |
|            | Axle spacing   |                       | in        | 176+54+54+54 |
| Weights    | Maximum permissible total weight (equipped with 27.5 USt hook block, 5.5 USt hook (other hook blocks not included), jib, and 3200 lb fixed counterweight (other counterweight slabs not included); auxiliary winch not included) |                       | lb        | 79,366       |
|            | Axle load  | Axle 1                | lb        | 16,511       |
|            |  | Axle 2                | lb        | 13,220       |
|            |  | Axles 3-5 (in tandem) | lb        | 49,635       |
| Power      | Engine model   |                       | —         | MX-13        |
|            | Rated power/rpm  |                       | HP/rpm    | 455/1600     |
|            | Maximum output torque/rpm  |                       | lb-ft/rpm | 1650/900     |
| Travel     | Maximum travel speed   |                       | mph       | 65           |
|            | Minimum turning diameter   |                       | in        | 945          |
|            | Minimum turning diameter of boom head  |                       | in        | 1,024        |
|            | Minimum ground clearance   |                       | in        | 13.8         |
|            | Approach angle   |                       | °         | 16           |
|            | Departure angle  |                       | °         | 13           |

# TABLE OF MAIN TECHNICAL PARAMETERS

| CATEGORY                  | ITEM  |                           | UNIT       | PARAMETER |     |
|---------------------------|---|---------------------------|------------|-----------|-----|
| Main Performance          | Maximum rated lifting capacity                      |                           | USt        | 60        |     |
|                           | Minimum rated working radius                        |                           | ft         | 5         |     |
|                           | Slewing radius at turntable tail (at counterweight) |                           | ft         | 13.8      |     |
|                           | Maximum load moment                                 | Base boom section         | lb-ft      | 1,172,000 |     |
|                           |   | Fully-extended boom       | lb-ft      | 481,000   |     |
|                           |   | Fully-extended boom + Jib | lb-ft      | 416,000   |     |
|                           | Outrigger span (fully-extended)                     | Longitudinal              | ft         | 21.3      |     |
|                           |   | Lateral                   | ft         | 24.3      |     |
|                           | Lifting height                                      | Base boom section         | ft         | 42.6      |     |
|                           |   | Fully-extended boom       | ft         | 154       |     |
|                           |   | Fully-extended boom + Jib | ft         | 208       |     |
|                           | Boom length   | Base boom                 | ft         | 39.4      |     |
|                           |   | Fully-extended boom       | ft         | 154       |     |
| Fully-extended boom + Jib |   | ft                        | 207.5      |           |     |
| Jib offset angle          |   | °                         | 0, 15, 30  |           |     |
| Working Speeds            | Time for raising boom                               |                           | s          | 40        |     |
|                           | Time for fully extending boom                       |                           | s          | 80        |     |
|                           | Maximum slewing speed                               |                           | rpm        | 1.2       |     |
|                           | Time for extending and retracting outriggers        | Outrigger beams           | Extending  | s         | ≤40 |
|                           |   |                           | Retracting | s         | ≤40 |
|                           |   | Outrigger jacks           | Extending  | s         | ≤45 |
|                           |   |                           | Retracting | s         | ≤45 |
|                           | Lifting speed (single line, 4th layer, no load)     | Main winch system         | fpm        | 394       |     |

|   |   |   |                          |
|---|---|---|--------------------------|
|    | Superstructure                                    |    | Boom                     |
|    | Rated Lifting Load                                |    | Boom Length              |
|    | Counterweight                                     |    | Working Radius           |
|    | Slewing Radius of Variable-position Counterweight |    | Lifting Height with Boom |
|    | Hook Block  |    | Boom Angle               |
|   | Parts of Line                                     |   | Extension                |
|  | Boom Length Combination                           |  | Independent Jib Head     |
|  | Wind Speed  |  | Simple Jib Head          |
|  | Configuration                                     |  | Fixed Jib                |
|  | Optional Equipment                                |  | Fixed Jib Length         |
|  | Wire Rope Length                                  |  | Fixed Jib Offset Angle   |
|  | Wire Rope Diameter                                |  | Luffing Jib              |

# DESCRIPTION OF SYMBOLS

|   |                          |   |                                     |
|---|--------------------------|---|-------------------------------------|
|    | Maximum Single Line Pull |    | Maximum Lifting Height              |
|    | Maximum Working Speed    |    | Maximum Working Radius              |
|    | Main Winch               |    | Super Lift                          |
|    | Auxiliary Winch          |    | Wind Power Jib                      |
|    | Chassis                  |    | Telescoping                         |
|   | Outrigger Span           |   | Slewing                             |
|  | Tires                    |  | 360° Slewing                        |
|  | Axle Load                |  | 360° Slewing with the 5th Jack Down |
|  | Gradeability             |  | Side and Rear Operation             |
|  | Travel Speed             |  | Operation Over Front                |
|  | Luffing                  |  | Operation Over Rear                 |
|  | EN 13000 Standard        |  | Luffing Jib Winch                   |

## ENGINEERED AND BUILT FOR QUALITY

- Every XCMG crane starts as a digital model and stays digitally controlled through every step of production. From robotic welding to automated painting, the manufacturing process is built to deliver consistent quality at every stage.



Smart Component Production



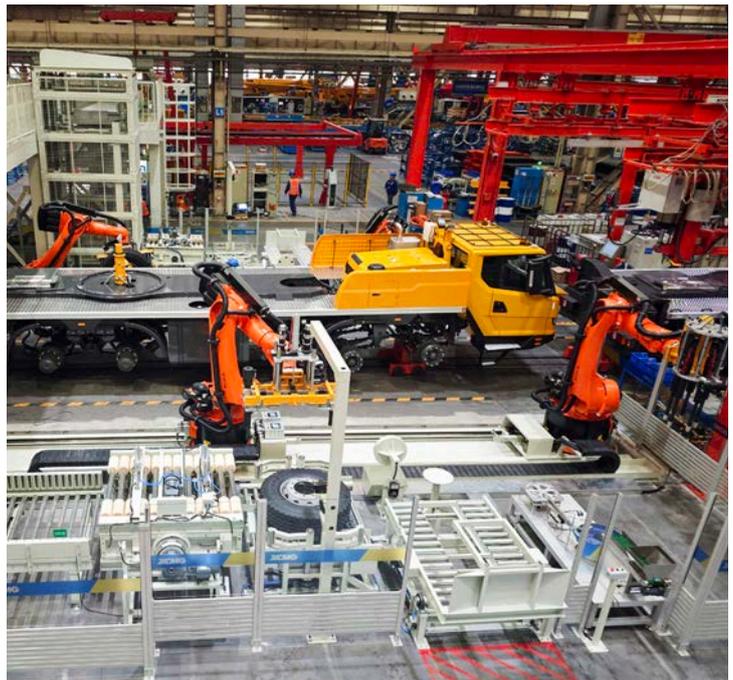
Automated painting to ensure consistent quality



Automated Production Line



Robotic Welding



Robotic Assembly

# CONSISTENT SAFE AND RELIABLE MACHINES

## TESTED AT EVERY LEVEL

- Each new technology and component is required to meet the most stringent design and quality protocols.
- Each complete machine undergoes rigorous run in and testing, components are subject to ongoing testing.

## OVER 2,000 COMPONENTS FROM 123 MANUFACTURERS UNDERGOING LIFE CYCLE TESTING



HMI Display: Low-Temperature Performance Test Under -40°C



Length Measurement Sensor: 48-Hour Rain Test



Panel Buttons: Cycled 12 Million Times



Hydraulic Pump: Low-Temperature Performance Test Under -40°C



Telescoping Mechanism: Smoothness Test



Telescoping Mechanism: Smoothness Test

## 178 POST PRODUCTION FULL-SCALE TESTS ON THE COMPLETE MACHINE



Dynamic & Static Lifting



Terrain Testing



Climbing & Hill Holding

# NOTES FOR LIFTING

- ❖ The total rated loads given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground with the tires free of the ground. The weights of the hookblock, rigging and the rope between the boom tip and block must be deducted as well as optional items such as the auxiliary sheave and jib.
- ❖ The working radius shown in the rated load charts is the radius when the load is lifted off the ground, and it is the actual value including loaded boom deflection. The operator will need to take boom deflection into consideration before beginning a lifting operation.
- ❖ A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14m/s (46.2ft/s), and wind pressure is below 124Pa (2.59lb/ft<sup>2</sup>).
- ❖ Before beginning lifting operation, the operator should know the weight of the load to be lifted and the crane's working range, and then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Use the lower value from the chart when the boom length or working radius is between the range of values.
- ❖ Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried. Otherwise, the crane may overturn.
- ❖ The boom should be extended according to the telescoping codes shown on the load charts.



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