MAEDA CRAWLER CRANE
LC755-3

Maximum Capacity x Working Radius  4.9 t × 2.1 m
Maximum Lifting Height  16.35 m
Maximum Working Radius  14.45 m
Tail Swing  1.4 m

MAEDA
Moving to the Next Level

With longer reach, improved safety and more operator comfort, the LC755-3 combines all the best features of the most advanced cranes.

**Improved Basic Crane Performance**

- **Five Stage Boom** — The Longest in its Class
  
  Maximum lifting height: **16.35 m**

- **Short Tail Swing**
  
  Tail swing radius: **1.4 m**

- **Two-Speed Hi/Lo Winch**
  
  The LC755-3 features a wet disk winch, which is highly reliable, quiet and designed for continuous operation. For maximum efficiency, two speeds are available; use Hi-speed when not lifting a load and select Lo-speed for controlled, powerful lifting.

- **Automatic Hook Stowage**
  
  The hook is automatically stowed at the touch of a button. In addition, the hook can be used for both two and four fall operations.

- **Derrick Cylinder Guard**
  
  This guard protects the derrick cylinder against damage from swinging loads, etc.

- **Built in Boom Length Cable**
  
  The boom length cable is built in to the boom and is thus protected from damage.

- **One Touch Wide Opening Engine Cover**
  
  The engine cover opens fully, giving much better access for maintenance, etc.
People-friendly

- **Clean and Quiet**
  Designed to meet all the relevant exhaust and noise requirements in each of the world's major markets.

- **Vertical Exhaust System**
  Routes exhaust gases away from the operator.

- **Comfortable Operator Environment**
  - Top window allows easy monitoring of operations.
  - Sliding seat allows operator to select optimum position.
  - Simple levers require little effort.
  - Cab cooler (option) for operator comfort during warm weather.
  - PPC control levers make all operations easy.
  - Key stop allows the operator to switch off the engine easily.

- **Carefully Engineered for Safety**
  - Rounded sliding door (RSS) prevents damage when slewing with an open door.
  - Rear view mirrors positioned to eliminate blind spots, allowing the operator to see the rear of the machine and avoid collisions.
  - Safety lever locks the hydraulic system to prevent accidental operation.
  - Seat belt keeps the operator safely seated.
  - Head guard protects the operator from falling objects.
  - Lifting control levers make getting into and out of the cab easy.

- **Short-Pitch Rubber Tracks**
  Rubber tracks minimize vibration and noise and protect road surfaces. Specially designed rollers minimise the risk that tracks will become detached.

- **Two-Speed Travel**
  The operator can select Hi-speed when positioning himself around the site, then switch to Lo-speed when operating the crane. The machine automatically selects Lo-speed when traveling with loads of 0.5t or more.

  **Hi-speed: 3.2km/h**  **Lo-speed: 2.2km/h**

- **Safety Guard**
  A front half guard protects the cab front glass from damage if a load or hook swings into it. Working lights are fitted as standard.

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**Thoroughly Designed for Safety**

- **Moment Limiter**
  The moment limiter automatically stops hoist, boom extension and boom lowering functions if an overload situation is reached. The operator can also set a boom working envelope from the cab using the large computerised monitor.
  - Rated working radius display
  - Maximum and minimum boom angles, maximum working radius and maximum height can all be set.
  - Pick & carry mode shift
  - Travel lever operation can be set for automatic speed reduction. (In addition, modes can be changed using the selection switch on the monitor panel.)
  - Automatic boom loading speed reduction
  The loading speed decreases automatically as the boom extends.

- **Tilt Alarm**
  If during travel the crane tilts at an angle of more than 15°, an alarm buzzer sounds automatically.

- **Crane operation prevention device**
  During travel the crane will not operate even if the operating levers are moved.

- **Overhoist Cut-Out**

- **Wire Rope Latch**

- **Automatic Winch Brake**

- **Hydraulic Lock on Extension and Hoist Cylinders**

- **Pick & Carry Safety Device**

- **Rope Over-Lowering Device**

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**Moment Limiter Display**

| 1. Load ratio display | 18. Overwind detection display LED (red) |
| 2. Actual load display | 19. Single fall display LED (green) |
| 3. Rated overall load display | 20. 2 fall display LED (green) |
| 4. Boom angle display | 21. 4 fall display LED (green) |
| 5. Actual working radius display | 22. Sub boom 1 select display LED (orange) |
| 6. Rated working radius display | 23. Sub boom 2 select display LED (orange) |
| 7. Boom length display | 24. Boom angle upper limit display LED (green) |
| 8. Lifting height display | 25. Boom angle lower limit display LED (green) |
| 9. Hook horns number selector button | 26. Working radius upper limit display LED (green) |
| 10. Sub boom select button | 27. Lift above ground level upper limit display LED (green) |
| 11. Static/travel mode select button | 28. Travel mode select display LED (red) |
| 12. Boom angle upper limit setting button | 29. Static mode select display LED (orange) |
| 15. Lift above ground level upper limit setting button | 32. ||
| 16. Set up confirm button | 33. ||
| 17. Set up cancel button | 34. ||

**Options**

- Road-liner (separate type rubber crawler)
- Steel shoes
- Sub-boom
- Two fall hookblock
- Single fall hookblock
- Cab cooler
- Swing alarm lamp
- External alarm lamp
**WORKING RADIUS**

![Diagram showing working radius and lifting height above ground level in meters.](image)

**LIFTING CAPACITIES**

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<th>Working Radius</th>
<th>4.56m</th>
<th>4.56~7.31m</th>
<th>7.31~10.06m</th>
<th>10.06~12.81m</th>
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*The rated load is the value not greater than 78% of the tipping load where the machine is placed on firm, level ground and the forward stability is 1.15 or above.

*The load which can actually be hoisted is obtained by subtracting the weight of the slinging equipment (80 kg for 4.9 ton hook) such as the hook, from the values shown in the table.

**DIMENSIONS**

![Dimension diagram of the crane.](image)

**SPECIFICATIONS**

- Operating weight: 9600 kg
- Maximum Lifting Load x Working Radius: 4.91 x 2.1 m
- Maximum Working Radius: 14.45 m
- Maximum Lifting Height: 16.35 m
- Wire Rope: 6XFi (29), IWRC, class B, ø10 mm x 115 m
- Number of Line: 4
- Hook Hoisting Speed: 21.5 m/min (Lo), 32.5 m/min (Hi)
- Hook Retraction: Automatic
- Boom Length: 4.56 m ~ 15.56 m
- Number of Boom Stage: 5
- Boom Telescope: Hydraulic + Mechanical (Wire Rope)
- Boom Telescoping Stroke: 11.0 m
- Boom Telescoping Time: 27 sec
- Boom Diring/Hoisting Angle/Speed: -2° ~ 80° / 14 sec
- Swing Angle/Speed: 360° / 2.0 rpm
- Safety Equipment: Moment Limiter, Overwind Prevention Device, Hydraulic Pressure Safety Valves, Automatic Winching Brake, Free Fall Interlock, Inclination Alarm, Wire Rope Latch
- Engine: Komatsu 4D102E
- Flywheel Horsepower: 40.5 kW (55 PS) / 1750 rpm
- Traveling Speed: 2.2 km/h (Lo), 3.2 km/h (Hi)