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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
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.

- **Cone operation prevention device**
  During travel the cone 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
- 2. Actual load display
- 3. Rated overall load display
- 4. Boom angle display
- 5. Actual working radius display
- 6. Rated working radius display
- 7. Boom length display
- 8. Lifting height display
- 9. Hook hoops number selector button
- 10. Sub-boom select button
- 11. Static/travel mode select button
- 12. Boom angle upper limit setting button
- 13. Boom angle lower limit setting button
- 14. Working radius upper limit setting button
- 15. Lift above ground level upper limit setting button
- 16. Set up confirm button
- 17. Set up cancel button
- 18. Overwind detection display LED (red)
- 19. Single fall display LED (green)
- 20. 2 fall display LED (green)
- 21. 4 fall display LED (green)
- 22. Sub boom 1 select display LED (orange)
- 23. Sub boom 2 select display LED (orange)
- 24. Boom angle upper limit display LED (green)
- 25. Boom angle lower limit display LED (green)
- 26. Working radius upper limit display LED (green)
- 27. Lift above ground level upper limit display LED (green)
- 28. Travel mode select display LED (red)
- 29. Static mode select display LED (orange)

**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
**MAEDA CRAWLER CRANE**

### WORKING RADIUS

[Diagram showing working radius with height and length measurements]

- **Diagram Description**: The diagram illustrates the working radius and lifting height above the ground level for various lengths of the crane.

### LIFTING CAPACITIES

<table>
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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>
<th>12.81~15.56m</th>
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- **Notations**: 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 lifting equipment (80 kg for 4.9 ton hook) such as the hook, from the values shown in the table.

### DIMENSIONS

- **Diagram showing dimensions of the crane**

### SPECIFICATIONS

- **Operating weight**: 9600 kg
- **Maximum Lifting Load\ Working Radii**: 4.91X2.1m
- **Maximum Working Radius**: 14.45m
- **Maximum Lifting Height**: 16.35m
- **Wire Rope**: 6Xfi (29) IWRC · class B φ10mm x 115m
- **Number of Line**: 4
- **Hook Hoisting Speed**: 21.5m/min (Lo), 32.5m/min (Hi)
- **Hook Retraction**: Automatic
- **Boom Length**: 4.56m ~ 15.56m
- **Number of Boom Stage**: 5
- **Boom Telescope**: Hydraulic + Mechanical (Wire Rope)
- **Boom Telescoping Stroke**: 11.0m
- **Boom Telescoping Time**: 27 sec
- **Boom Dipping 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**: 40.5KW (55PS) / 1750rpm
- **Traveling speed**: 2.2km/h (Lo), 3.2km/h (Hi)