



|                                |                                           |
|--------------------------------|-------------------------------------------|
| <b>Engine</b>                  | Cummins L9                                |
| <b>Rated Power</b>             | 210 kW (282 hp / 286 ps) @ 2,100 rpm      |
| <b>Operating Weight</b>        | 23,800 kg (52,470 lbs)                    |
| <b>Standard Bucket Size</b>    | 4.2 m <sup>3</sup> (5.5 yd <sup>3</sup> ) |
| <b>Standard Breakout Force</b> | 188 kN (42,264 lbf)                       |
| <b>Standard Dump Clearance</b> | 3,275 mm (10' 9")                         |

# 870T WHEEL LOADER

TOUGH WORLD. TOUGH EQUIPMENT.

# 870T SPECIFICATIONS >>>

## ENGINE

|                     |                                       |
|---------------------|---------------------------------------|
| Emission Regulation | Stage V                               |
| Manufacturer        | Cummins                               |
| Model               | L9                                    |
| Rated Power         | 210 kW (282 hp / 286 ps) @ 2,100 rpm  |
| Peak Torque         | 1,525 N·m (1,125 lbf·ft) @ 2,100 rpm  |
| Displacement        | 8.9 L (2.4 gal)                       |
| Number of Cylinder  | 6                                     |
| Aspiration          | Turbocharged & Air-to-air intercooled |

## TRANSMISSION

|                           |                              |
|---------------------------|------------------------------|
| Transmission Type         | Countershaft, powershift     |
| Torque Converter          | Single stage, three elements |
| Maximum Travel Speed, fwd | 38 km/h (23.6 mph)           |
| Maximum Travel Speed, rev | 25.4 km/h (15.8 mph)         |
| Number of Speed, fwd      | 4                            |
| Number of Speed, Rev      | 3                            |

## AXLES

|                         |              |
|-------------------------|--------------|
| Differential Front Type | Limited slip |
| Differential Rear Type  | Limited slip |
| Axle Oscillation        | ±10°         |

## STEERING

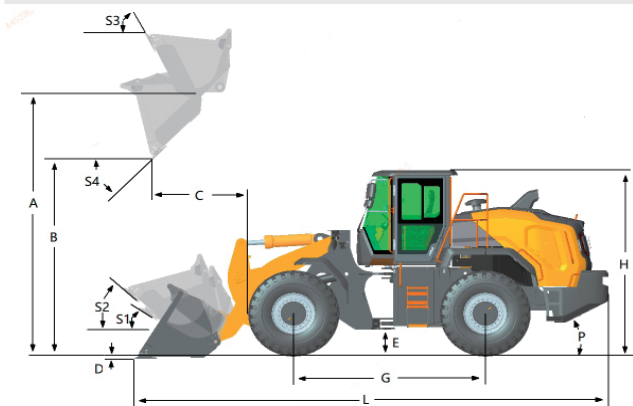
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|--------------------------|--------------------|
| Steering Configuration   | Articulated        |
| Steering Relief Pressure | 25 MPa (3,625 psi) |

## BRAKES

|                         |                           |
|-------------------------|---------------------------|
| Service Brake Type      | Wet discs brake           |
| Service Brake Actuation | Fully hydraulic           |
| Parking Brake Type      | Drum                      |
| Parking Brake Actuation | Electro-hydraulic release |

## HYDRAULIC SYSTEM

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Main Pump Type           | Gear + Piston                                                           |
| Main Relief Pressure     | Bucket tilt joint: 28 MPa (4,061 psi)<br>Boom joint: 30 MPa (4,351 psi) |
| Raise                    | 5.8 s                                                                   |
| Dump Time                | 1.3 s                                                                   |
| Float Down Time          | 3.5 s                                                                   |
| Fastest Total Cycle Time | 10.6 s                                                                  |



## LOADER ARM PERFORMANCE WITH STANDARD BUCKET 4.2 m³ (5.5 yd³)

|                                                  |                        |
|--------------------------------------------------|------------------------|
| Tipping Load - Straight (ISO 14397-1:2007)       | 17,500 kg (38,581 lbs) |
| Tipping Load - Full Turn (ISO 14397-1:2007)      | 15,500 kg (34,172 lbs) |
| Bucket Breakout Force                            | 188 kN (42,264 lbf)    |
| A Maximum Hinge Pin Height                       | 4,541 mm (14'11")      |
| B Dump Clearance at Full Height Discharge        | 3,275 mm (10'9")       |
| C Dump Reach at Full Height Discharge            | 1,200 mm (3'11")       |
| D Maximum Digging Depth, Bucket Level            | 95 mm (3")             |
| S <sub>1</sub> Rollback at Ground Level          | 44°                    |
| S <sub>2</sub> Bucket Rollback at Carry          | 46.2°                  |
| S <sub>3</sub> Bucket Rollback at Maximum Height | 60.5°                  |
| S <sub>4</sub> Maximum Dump Angle at Full Height | 45°                    |

## BUCKET PERFORMANCE

|                  |                      |
|------------------|----------------------|
| Reference Bucket | 3~7 m³ (3.9~9.2 yd³) |
|------------------|----------------------|

## DIMENSIONS

|                                                |                   |
|------------------------------------------------|-------------------|
| E Ground Clearance                             | 450 mm (1'6")     |
| G Wheelbase                                    | 3,550 mm (11'8")  |
| H Cab Height                                   | 3,460 mm (11'4")  |
| J Wheel Tread                                  | 2,280 mm (7'6")   |
| K Width over Tires                             | 2,980 mm (9'9")   |
| L Length with Bucket Down                      | 9,100 mm (29'10") |
| M Turn Angle, Either Side                      | 38 °              |
| P Rear Angle of Departure                      | 29 °              |
| R <sub>1</sub> Turning Radius, Bucket Carry    | 7,350 mm (24'1")  |
| R <sub>2</sub> Turning Radius, Outside of Tire | 6,375 mm (20'11") |
| W Width over Bucket                            | 3,210 mm (10'6")  |

## TIRES

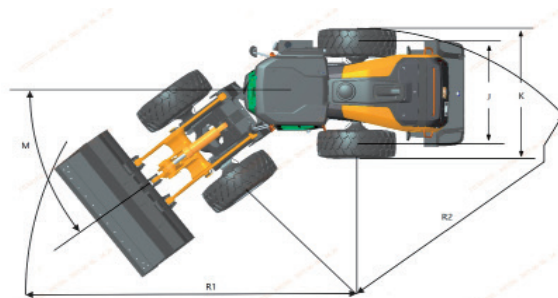
|           |               |
|-----------|---------------|
| Tire Size | 26.5R25 ★ L-3 |
|-----------|---------------|

## OPERATING WEIGHTS

|                  |                        |
|------------------|------------------------|
| Operating Weight | 23,800 kg (52,470 lbs) |
|------------------|------------------------|

## SERVICE CAPACITY

|                     |                            |
|---------------------|----------------------------|
| Fuel Tank           | 330 L (87.2 gal)           |
| Engine Oil          | 26 L (6.9 gal)             |
| After treatment DEF | 45 L (11.9 gal)            |
| Cooling System      | 35 L (9.2 gal)             |
| Hydraulic System    | 295 L (77.9 gal)           |
| Transmission        | 35 L (9.2 gal)             |
| Axles, Front/Rear   | 52 /50 L (13.7 / 13.2 gal) |



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Specifications and designs are subject to change without notice. Machines shown may include optional equipment. Liugong standard and optional equipment may vary from region to region. Please consult your Liugong dealer for information specific to your area. Engine power kW is converted to horsepower (1 kW=1.3596 ps and 1 kW=1.3410 hp) in this file.

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