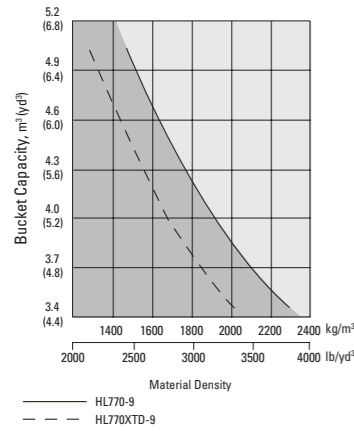


BUCKET SELECTION GUIDE



SUPPLEMENTAL SPECIFICATIONS

| Description | Change in operating weight kg(lb) | Change in static tipping load-straight kg(lb) | Change in static tipping load-40° turn kg(lb) |
|-----------------|-----------------------------------|---|---|
| 23.5-25 20PR L3 | -472 (-1041) | -350 (-770) | -310 (-680) |
| 26.5-25 28PR L3 | -4 (-9) | -3 (-7) | -2 (-4) |
| 26.5-25 32PR L3 | +164 (+362) | +120 (+265) | +110 (+240) |
| 26.5 R25 XHA* | +108 (+238) | +80 (+175) | +70 (+155) |

STANDARD EQUIPMENT

| | | | | |
|---|---|---|--|--|
| <p>Electrical system Alternator, 70A Alarms, audible and visual - air filter clogging - transmission error - alternator voltage - brake oil pressure - engine oil pressure - parking brake - fuel level - hydraulic oil temperature - coolant temperature - service brake oil pressure Alarm, back-up Batteries, 1000 CCA, 12V, (2) Gauges - engine coolant temperature - fuel level - hydraulic oil temperature - speedometer - transmission oil temperature - voltmeter Horn, electric Indicator lights - clutch cut-off - high beam - turn signal - work light LCD Display - clock and fault code - operating hour counter - engine rpm</p> | <p>- transmission gear range indicator - job time and distance - temperature(coolant, hydraulic oil, t/m oil) Lighting system - 2 LED dome lights - 2 stop and tail lights - 4 turn signals - brake lights(counterweight) - 2 head lights on front tower - 2 working lights on front roof - 2 working lights on grill Switches - clutch cut-off - hazard - Ignition key, start/stop switch - main light (illumination and head light) - parking - rear wiper & washer - work light - battery master switch - pilot cut-off Starter, electric Starting and charging system(24-volt)</p> <p>Cab Cab, ROPS/FOPS (sound suppressed and pressurized) with : - cigar lighter & ashtray</p> | <p>- coat hook Automatic climate control - air conditioner & heater - defroster - intermittent wiper and washer, front and rear Personal storage space - console box - holder, can and cup Rear view mirrors (2 inside) Rear view mirrors (2 outside) 2" retractable seat belt & adjustable suspension seat with armrests Steering column, tilt and telescopic Steering wheel with knob Sunvisor(front window) Tinted safety glass Two door cab Magazine pocket Pedals - one accelerator pedal - one brake pedal Radio/USB player Rubber floor mat Wrist rest</p> <p>Engine Antifreeze Engine, Cummins QSL - Low Emission Diesel, Tier3 Engine enclosure, lockable</p> | <p>Engine fuel priming pump(Electric) 3 operating mode (power / standard / econo) Fan guard Fuel/water separator Fuel warmer Muffler, under hood with large exhaust stack Rain cap, engine air intake Radiator Starting aid (air intake heater) Water sensor on fuel filter</p> <p>Power Train Brakes : Service, enclosed wet-disc Differentials, limited slip(front/rear) Parking brake Torque converter Transmission, computer-controlled, electronic soft shift, auto-shift and kick-shift features included Transmission oil cooler</p> <p>Hydraulics Boom kickout, automatic Bucket positioner, automatic Diagnostic pressure taps Hydraulic oil cooler Hydraulic system, - 2 spool, single lever, pilot control for boom and bucket actuation Steering, load-sensing</p> | <p>Remote cooling fan, hydraulically-driven, temperature sensing type</p> <p>Others Articulation locking bar Coolant level sight gauge Counterweight Door and cab locks, one key Doors, service access(locking) Drawbar with pin Engine oil level dipstick gauge Ergonomically located and slip resistant, left & right - handrails - ladders - platforms - steps Fenders(front) Guard, bucket cylinder rod Hydraulic oil level sight gauge License plate bracket Lift and tie-down hooks Loader linkage, sealed Z-Bar design Steering stops, cushioned Tires(26.5-25, 20PR,L3) Transmission oil site level Vandalism protection caplocks</p> |
|---|---|---|--|--|

OPTIONAL EQUIPMENT

| | | | | |
|--|--|--|--|--|
| <p>24-volt to 12-volt DC converter 3 Spool Climate control - air conditioner only - heater only Beacon light, rotating Auxiliary, 2 working lights on front roof (Xenon working lights) Auxiliary, 2 working lights on rear roof Cutting edge, bolt-on type Dual brake pedal</p> | <p>Secondary steering system Fenders(rear-mudguard) Fire extinguisher High lift arrangement with additional counterweight, 490kg (1,080 lb) Hydraulic control, 2 lever Hydraulic control, 3 lever 3rd spool for auxiliary function Joystick with travel switch (FNR) Mud guard</p> | <p>Operator suit Pallet forks Heated rear view mirrors (2 outside) Reversible cooling fan Ride control system Seat - 2" static seat belt & adjustable mechanical suspension (vinyl) - 3" static seat belt & adjustable mechanical suspension</p> | <p>- 2" retractable seat belt & adjustable air suspension (heated) Tires : - 23.5 - 25, 20PR, L3 - 26.5 - 25, 28PR, L3 - 26.5 - 25, 32PR, L3 - 26.5 - 25, 20PR, L5 - 26.5 R25 XHA* Tool kit Tooth, 1 piece, bolt-on type Tooth, 2 pieces, bolt-on type</p> | <p>Wheel chock Pre-cleaner, engine air intake Joystick-steering Roll screen (rear window) License plate & lamp Hi-Mate(Remote Management System) Rearview camera</p> |
|--|--|--|--|--|

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards. All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

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2010.03 Rev 0

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We build a better future

HL770-9

With Tier 3 Engine installed



*Photo may include optional equipment.

HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

Pride at Work

Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!



*Photo may include optional equipment.

HL770-9

Machine Walk-Around

Reliable Main Components

Engine Technology

Proven, reliable, fuel efficient, low noise Cummins Tier-III QSL engine.
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion.
HPCR(High Pressure Common Rail) fuel system / Self-diagnostic system.
3 engine modes, P (Power), S (Standard), E (Econo) for full power or reduced fuel consumption according to operator preference.

Full Automatic Transmission

4 step(Manual / Light / Normal / Heavy) shift mode by working condition
Protective transmission at low temperature(Automatic warm-up system)
Self-diagnostic & Memory of malfunction history
Minimum travel shift shock by applying proportional controlling modulation valve / Self adjusting Clutch gap
Kick-down button & FNR switch for operating comfort

Axle

Limited slip differentials (front & rear) for easy driving on variable ground condition
Self-adjusting & wheel speed brake

Improved Durability

Load sensing hydraulic system with variable displacement piston pump and closed-center MCV (main control valve).
Long-life cooling system, designed for additional durability, resistant to thermal shock, impulse and vibration.
Redesigned steering cylinder lug and bucket link, now cast steel for additional strength and reliability.

Enhanced Operator Comfort

Improved Visibility

Larger operator's cab for additional comfort.
Redesigned cab with rounded front glass and larger door glass for a larger field of view.

Improved Convenience

Increased cooling & heating capacity with fully automatic climate control system.
Tilting & telescopic steering column.
Adjustable wrist rest for reduced operating stress.
Multiple storage compartments.
AM/FM Radio with MP3 interface and USB input.
Improved ladder with 20 Degree incline and large, deep tread, aluminum cast steps for safer access and exit from the cab.

Advanced 5.7" Color Monitor

Easy-to-read new color LCD display.
Auto boom kick out and bucket positioner - fully adjustable from within the cab.
Integrated load weight system, viewable through the monitor, for improved work efficiency and overload prevention.
Self diagnostic & monitoring system with active display of engine, hydraulic system, transmission and electrical component information.
Color, rear-view, back-up camera for improved safety and convenience.
RMS(Remote Management System) works through GPS/satellite technology to provide better customer service and support.

Serviceability

Reversible, swing-out, cooling fan for easy service and improved cooler maintenance.
Ground level access to critical service points, filters and sight gauges for easy maintenance.
Long life hydraulic filter and oil for reduced operating costs.

Preference

Operating a 9 series wheel loader is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.



*Photo may include optional equipment.



Wide and Convenient Cab

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. The front windshield is rounded and 17% wider than the previous 7A series. Special attention was given to a clean, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of cab ergonomics puts the operator in the perfect position to work safely and securely. The 9 series cab's fully automatic climate control system features 11 air vents and increased cooling and heating capacity for optimum temperature control. The defroster vents located on the front and rear windows and a PTC (electric pre-heater) make working in cold weather more hospitable.

Operator Comfort

In the 9 series cabin you can easily adjust the steering column and wrist rest to best suit your preferred comfort level. Pilot-operated joystick controls are easy and comfortable to operate. An FNR (Forward/Neutral/Reverse) switch on the control lever facilitates easy selection of travel direction. Roller style sun screens on the front window and rear window allow the operator to reduce glare and improve visibility. Heated side mirrors feature built-in hot wires for quick defrosting during cold weather conditions.



Tilting / telescopic steering column

Reduced Stress

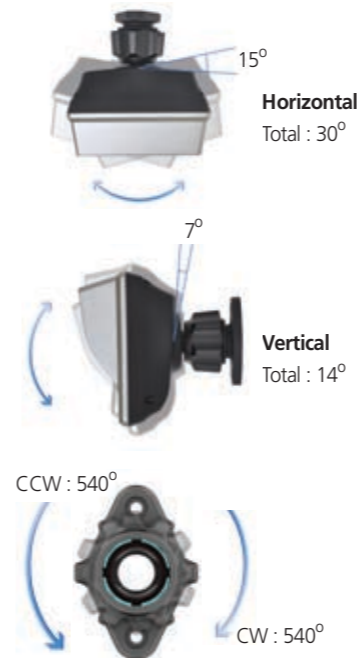
Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series cabin offers lots of amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with AM/FM stereo with MP3 interface and USB input, plus remotely located controls is perfect for listening to music favorites.

Advanced Color Monitor



The advanced new monitor with 5.7 inch wide color LCD screen allows the operator to easily and efficiently control the machine. The operator can adjust boom kick-out and bucket position via switches overhead while monitoring the adjustment settings through the monitor. An integrated load weight system that contributes to improved work efficiency, can also be viewed through the monitor. Self diagnostics, color rear-view camera maintenance check lists and start-up machine security, were integrated into the monitor to make the machine more versatile and the operator more productive. The new monitor display unit is mounted on an adjustable swivel mount to reduce glare and position according to operator preference.

Monitor Tilt Range



Precision & Performance

Innovative hydraulic system technologies make the 9 series excavator fast, smooth and easy to control. 9 series is designed for maximum performance to keep the operator working productively.



Improved Durability & Reliability



An enhanced axle improves driving over variable ground conditions. Self adjusting brakes that automatically regulate disc clearance, reduce service time and improve brake reliability and performance. The new load sensing hydraulic system with a variable volume piston pump and closed center main control valve, provide efficient hydraulic power and additional energy savings. Service and clean-out are easier on the 9 series, now equipped with a completely redesigned, parallel-mounted, cooler configuration and non louvered fins to prevent clogging. All coolers are designed with aluminum bar plate configuration and undergo strict factory tests for thermal shock, impulse and vibration to assure long term durability. Top mounted non-louvered aluminum air condenser and variable displacement A/C compressor are designed for maximum cooling capacity, energy savings and easy clean-out. Additionally, the redesigned steering cylinder lug and bucket link, are now cast steel for additional strength and reliability.

Variable Operating Modes



9 series wheel loaders are designed to allow the operator to customize the machine's engine power, automatic transmission shift timing and clutch cut-off activation based on the job condition and personal operator preference. Convenient rotary type switches allow for easy adjustment of engine power mode, transmission power shift mode, and clutch cut-off mode. Additionally, if equipped with the optional ride control system, the operator has the option to turn the system on or off with an overhead switch. The ride control system has a shock absorbing accumulator that cushions the boom, improves operator comfort and reduces material loss. The versatility of the 9 series operating modes contributes to improved productivity, enhanced operator comfort and reduced fuel consumption.



3 Mode Engine Power Selection
 P(Power) Mode : Heavy duty work
 S(Standard) Mode : General work
 E(Economy) Mode : Light duty work

4 Mode Transmission Power Shift System
 M(Manual) Mode
 Auto L(Light) Mode : Light duty & long distance carry
 Auto N(Normal) Mode : General excavating & loading
 Auto H(Heavy) Mode : Heavy duty excavating & loading

3 Mode Clutch Cut-Off System
 L(Low) Mode : Short distance & faster loading
 M(Medium) Mode : General loading
 H(High) Mode : Slope ground



Eco-friendly Cummins QSL Engine

The CUMMINS QSL electronic control engine combines full-authority electronic controls with the reliable performance. The combination of high pressure common rail system and advanced in-cylinder combustion technology results in increased power, improved transient response and reduced fuel consumption. And the QSL uses advanced electronics controls to meet the emission standards (EPA Tier3, EU StagIII-A)



Full Automatic Transmission

Fully automatic transmission designed for maximum durability, Minimum power loss, improved travel speed and low noise. Improved clutch control and minimized shifting shock when traveling, contribute to a smoother ride. Error messages and transmission fault history are recorded and accessible through the monitor.

*Photo may include optional equipment.

Profitable

9 series is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.



Hi-mate (Remote Management System)

Hi-mate, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries, reducing the need for multiple service calls. Hi-mate saves time and money for the owner and dealer by promoting preventative maintenance and reducing machine downtime.



Remote-mounted Cooling Fan

The remote mounted, hydraulically powered cooling fan regulates fan speed according to working temperatures for coolant, intake air, transmission oil and hydraulic oil. This new fan design contributes to reduced fuel consumption and machine noise. The fan is designed to auto reverse periodically or manually reverse to keep debris from accumulating on the coolers.



Easy Access

The engine fan is integrated into the rear door which swings open to over 45 degrees for easy access and regular maintenance. Conveniently located coolant and transmission oil site gauges make checking fluid levels fast and efficient. Ground-line access to fuel and oil filters grease fittings, fuses, machine computer components and wide open compartments makes service more convenient on the 9 series.



Full Fenders and Mud Guards (Option)

9 series wheel loaders can be equipped with optional full rear fenders and front and rear mud flaps to reduce material splatter to the cab and machine frame.



Hydraulic filter
(1,000 hr)



Hydraulic Oil
(5,000 hr)

Extended Life Components

The 9 series is designed for reduced lubrication intervals and extended component life. Long life hydraulic filters now have 1,000 hours service intervals and Hyundai certified hydraulic oil can last up to 5,000 hours before changing. Also, a new center pivot roller bearing design, now double tapered, requires less maintenance as well. Long life and extended wear components save the operator time and money.

*Photo may include optional equipment.

Specifications & Dimensions

ENGINE

| | | | |
|-------------------------|---|--------------------------|-------------------------------|
| Maker/Model | CUMMINS QSL | Bore x Stroke | 114 mm (4.5") x 145 mm (5.7") |
| Type | 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine | Displacement | 8.9 l (543 cu in) |
| Gross power | 280HP(209 kW) / 2,000rpm | Compression ratio | 17.8 : 1 |
| Net power | 277HP(207 kW) / 2,000rpm | Air cleaner | Dry, dual elements |
| Maximum torque | 148kg.m(1,070 lb.ft) / 1,400rpm | Alternator | 24V, 70 Amp |
| No. of cylinders | 6 | Battery | 2 x 12V, 160 Ah. |
| | | Starting motor | 24V, 7.5 kW |

※No derating for continuous operating required up to 3,048m (10,000ft). This engine meets the EPA(Tier III) / EU(Stage III-A) Emission regulation.

TRANSMISSION

| | | | |
|------------------------------|---------------------------------------|---------------------|-------------------|
| Torque converter type | 3-elements, single-stage single-phase | Travel speed | km/h (mph) |
| Tire | 26.5-25, L3 | Forward | |
| | | 1st | 6.9(4.3) |
| | | 2nd | 12.3(7.6) |
| | | 3rd | 26.9(16.7) |
| | | 4th | 41.0(25.5) |
| | | Reverse | |
| | | 1st | 6.9(4.3) |
| | | 2nd | 12.3(7.6) |
| | | 3rd | 26.9(16.7) |

※Full automatic power shift, countershaft type with soft-shift in range and direction. Properly matched torque converter to engine and transmission for excellent working ability

AXLES

| | | | |
|------------------------------|--|------------------------|----------------------------------|
| Drive system | Four-wheel drive system | Hub reduction | Planetary reduction at wheel end |
| Mount | Rigid front axle and oscillating rear axle | Differential | Limited Slip |
| Rear axle oscillation | ± 13° (total 26°) | Reduction ratio | 23.334 |

HYDRAULIC SYSTEM

| | | | |
|------------------------|--|------------------------|---|
| Type | Load sensing hydraulic system | Bucket Controls | Type Pilot operated lift and tilt circuit, single-lever(joystick) control standard. |
| Pump | Variable axial piston pump, 342 liters/min (90.3 gal/min)@governed rpm | Lift Circuit | The valve has four functions ; raise, hold, lower and float. Can adjust automatic kickout from horizontal to full lift. |
| Control valve | 2 Spool (Bucket, Boom) 3 Spool (Bucket, Boom, Aux) Pilot pressure controled type | Tilt Circuit | The valve has three functions ; tilt back, hold and dump. Can adjust automatic bucket positioner to desired load angle. |
| System pressure | 280 kgf/cm ² (3,982 psi) | Cylinder | Type : Double acting No. of cylinders-bore x stroke; Lift 2-160 mm(6.2") x 765 mm(30.1") Tilt 1-180 mm(7.0") x 570 mm(22.4") |
| | | Cycle Time | Raise : 5.4 sec Dump : 1.3 sec Lower : 2.8 sec Total : 9.5 sec |

BRAKES

| | |
|------------------------|---|
| Service Brakes | Hydraulically actuated, wet disc brakes actuate all 4 wheels independent axle-by-axle system. Self adjusting & wheel speed brake. |
| Parking Brake | Spring-applied, hydraulically released brake in Front Axle |
| Emergency Brake | When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies. |

STEERING SYSTEM

| | |
|-----------------------------|---|
| Type | Load sensing hydrostatic articulated steering |
| Pump | Piston pump, 220 liters/min (58.1 gal/min) |
| Relief Valve Setting | 210 kg/cm ² (2,990 psi) |
| Cylinder | Type Bore x Stroke Double acting 95mm(3.7") x 480mm(18.9") |
| Steering Angle | 40°(each direction) |

Features
- Center-point frame articulation.
- Tilt and telescopic steering column.

SERVICE REFILL CAPACITIES

| | |
|-----------------------|--------------------------|
| Fuel tank | 457 liters (120.7 USgal) |
| Cooling system | 56 liters (14.8 USgal) |
| Crankcase | 23 liters (6.1 USgal) |
| Transmission | 43 liters (11.4 USgal) |

| | |
|--|-------------------------|
| Front axle | 51 liters (13.5 USgal) |
| Rear axle | 43 liters (11.4 USgal) |
| Hydraulic tank | 200 liters (52.8 USgal) |
| Hydraulic system (including tank) | 292 liters (77.1 USgal) |

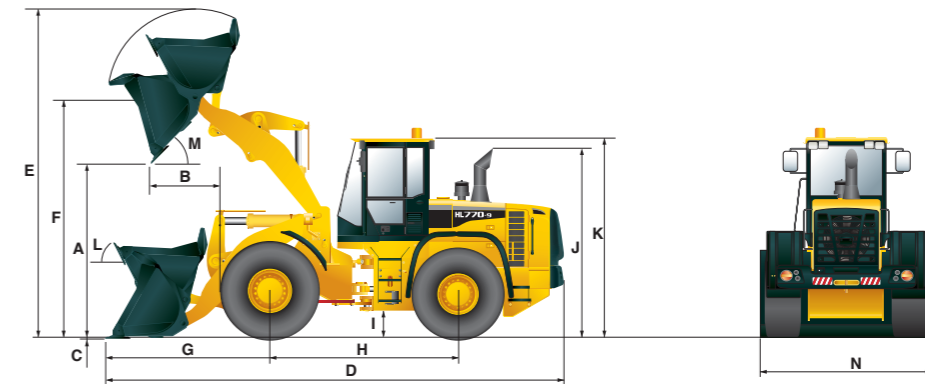
OVERVIEW

| Description | UNIT | HL770-9 | HL770XTD-9 |
|-----------------------|--|-----------------|-----------------|
| Operating weight | kg (lb) | 23,100 (50,930) | 23,850 (52,580) |
| Bucket capacity | Heaped m ³ (yd ³) | 4.2 (5.5) | 4.2 (5.5) |
| | Struck m ³ (yd ³) | 3.6 (4.7) | 3.6 (4.7) |
| Breakout force-bucket | kg (lb) | 21,740 (47,930) | 21,390 (47,160) |
| Tipping load | Straight kg (lb) | 17,620 (38,850) | 15,870 (34,990) |
| | Full turn kg (lb) | 15,290 (33,710) | 13,440 (29,630) |

TIRES

| | |
|------------------------|---|
| Type | Tubeless, loader design tires |
| Standard | 26.5-25, 20 PR, L3 |
| Options include | 26.5 R25 XHA* 26.5-25, 28 PR, L3 26.5-25, 32 PR, L3 23.5-25, 20 PR, L3 26.5-25, 20 PR, L5 |

DIMENSIONS



| Description | UNIT | HL770-9 | HL770XTD-9 |
|---|-----------------------|--------------------------------------|-----------------|
| Bucket Type | | General purpose bolt-on cutting edge | |
| A. Dumping clearance at max. height and 45° dump angle. | mm (ft-in) | 3,090 (10' 2") | 3,540 (11' 7") |
| B. Reach | Full lift mm (ft-in) | 1,295 (9' 9") | 1,295 (9' 9") |
| | 7ft height mm (ft-in) | 1,920 (6' 4") | 2,275 (7' 6") |
| C. Digging depth | mm (in) | 100 (3.9") | 130 (5.1") |
| D. Overall length | on ground mm (ft-in) | 8,700 (28' 7") | 9,175 (30' 1") |
| | at carry mm (ft-in) | 8,590 (28' 2") | 9,075 (29' 9") |
| E. Overall height (fully raised) | mm (ft-in) | 5,890 (19' 4") | 6,340 (20' 10") |
| F. Bucket pivot max. height | mm (ft-in) | 4,310 (14' 2") | 4,760 (15' 7") |

| Description | UNIT | HL770-9 | HL770XTD-9 |
|---|---------------------------|------------------|-----------------|
| G. Front overhang | mm (ft-in) | 2,990 (9' 10") | 3,400 (11' 2") |
| H. Wheelbase | mm (ft-in) | 3,500 (11' 6") | 3,500 (11' 6") |
| I. Ground clearance | mm (ft-in) | 480 (1' 7") | 480 (1' 7") |
| J. Height over exhaust | mm (ft-in) | 3,150 (10' 4") | 3,150 (10' 4") |
| K. Height over cab | mm (ft-in) | 3,560 (11' 8") | 3,560 (11' 8") |
| L. Roll-back angle (on ground/at carry) | deg | 44 / 49 | 44 / 50 |
| M. Dump angle | deg | 48 | 48 |
| Clearance circle | mm (ft-in) | 13,990 (45' 11") | 14,360 (47' 1") |
| N. Overall width | with bucket mm (ft-in) | 3,100 (10' 2") | 3,100 (10' 2") |
| | without bucket mm (ft-in) | 2,975 (9' 9") | 2,975 (9' 9") |