

SPECIFICATIONS

HL965

ENGINE		
Engine / Model	Cummins / QSL9	
Maximum Gross Power (2,100 rpm)		
SAE J1995	203 kW	272 hp
Maximum Net Power (2,100 rpm)		
SAE J1349	201 kW	269 hp
Peak Gross Torque (1,400 rpm)		
SAE J1995	1451 N·m	1,070 lbf·ft
Maximum Net Torque (1,400 rpm)		
SAE J1349	1432 N·m	1,056 lbf·ft
Bore	114 mm	4.49 in
Stroke	145 mm	5.71 in
Displacement	8.9 l	543 in ³

- The indicated net power is available for the flywheel when the engine is equipped with a fan, alternator, air cleaner, and after-treatment device.
- The indicated gross power is obtained with the fan at maximum speed.

TRANSMISSION					
Travel speed		4 speed T/M		5 speed T/M with lock up clutch	
		km/h	mph	km/h	mph
Forward	1st	6.0	3.7	6.3	3.9
	2nd	11.4	7.1	11.1	6.9
	3rd	22.9	14.2	17.1	10.6
	4th	37.4	23.2	26.6	16.5
	5th	-	-	40	24.9
Reverse	1st	6.3	3.9	6.7	4.1
	2nd	12.0	7.4	11.7	7.3
	3rd	24.2	15.0	28.0	17.4

- This is the maximum travel speed of a standard machine with unfilled bucket.

AXLES	
Front	Fixed
Rear	Oscillating ±12 degrees

OVERVIEW				
Description	UNIT	HL965	HL965XT	
Operating weight	kg	20,100	20,960	
	lb	44,315	46,210	
Bucket capacity	Heaped	m ³	3.60	3.60
		yd ³	4.71	4.71
	Struck	m ³	3.10	3.10
		yd ³	4.05	4.05
Breakout force-bucket	kg	17,400	17,265	
	lb	38,360	38,060	
Tipping load	Straight	kg	14,700	13,400
		lb	32,410	29,545
	Full turn	kg	12,720	11,520
		lb	28,045	25,400

TIRES	
Type	Tubeless, loader design tires
Standard	23.5 R25, L3
Options include	23.5, R25, XHA2 23.5-25, 20PR, L3 23.5-25, 20PR, L5

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, hydraulic released brake
Emergency Brake	When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.

HYDRAULIC SYSTEM		
Implement Pump Type	Load sensing hydraulic system	
Implement System		
Maximum Pump Output (2,130 rpm)	249 l/min	65.8 gal/min
Maximum Operating Pressure	28000 kPa	4,061 psi
Hydraulic Cycle Time with Rated Payload	Raise from Carry Position 5.8 Sec.	
	Dump, at Maximum Raise 1.4 Sec.	
	Lower, Empty, Float Down 3.1 Sec.	
	Total	10.3 Sec.
Cylinder	Type : Double acting	
	No. of cylinders-bore x stroke;	
	Lift	mm 2-140 x 785 in 2-5.5 x 30.9
	HL965 Tilt	mm 1-160 x 560 in 1-6.3 x 22.0
	HL965XT Tilt	mm 1-160 x 560 in 1-6.3 x 22.0

STEERING SYSTEM	
Type	Load sensing hydrostatic articulated steering
Pump	Variable displacement piston pump, 132 l/min (34.9 gal / min)
System Pressure	25000 kPa
	3,626 psi
Cylinder	Double acting
	mm 2-75 x 424 in 2-2.9 x 16.7
Steering Angle	40° to both right and left angle, respectively

SERVICE REFILL CAPACITIES		
UNIT	l	Us gal
Fuel tank	300	79.2
DEF tank	27.0	7.1
Cooling system	44.0	11.6
Crankcase	19.0	5.0
Transmission	48.0	12.7
Front axle	42.0	11.1
Rear axle	40.0	10.6
Hydraulic tank	115	30.4
Hydraulic system (including tank)	215	56.8

CAB	
ROPS / FOPS meet ISO 3471 and ISO 3449 Level II standards	

SOUND	
Guaranteed Noise Level presented below can be differed depending on a range of factors such as operating condition, speed of a cooling fan, types of engine and so forth. Hearing protection shall be necessary if an operator is working in the improperly maintained cabin or exposed to a noisy environment by leaving doors and/or windows open.	
With Cooling Fan Speed at Maximum Value:	
Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	107 dB(A)

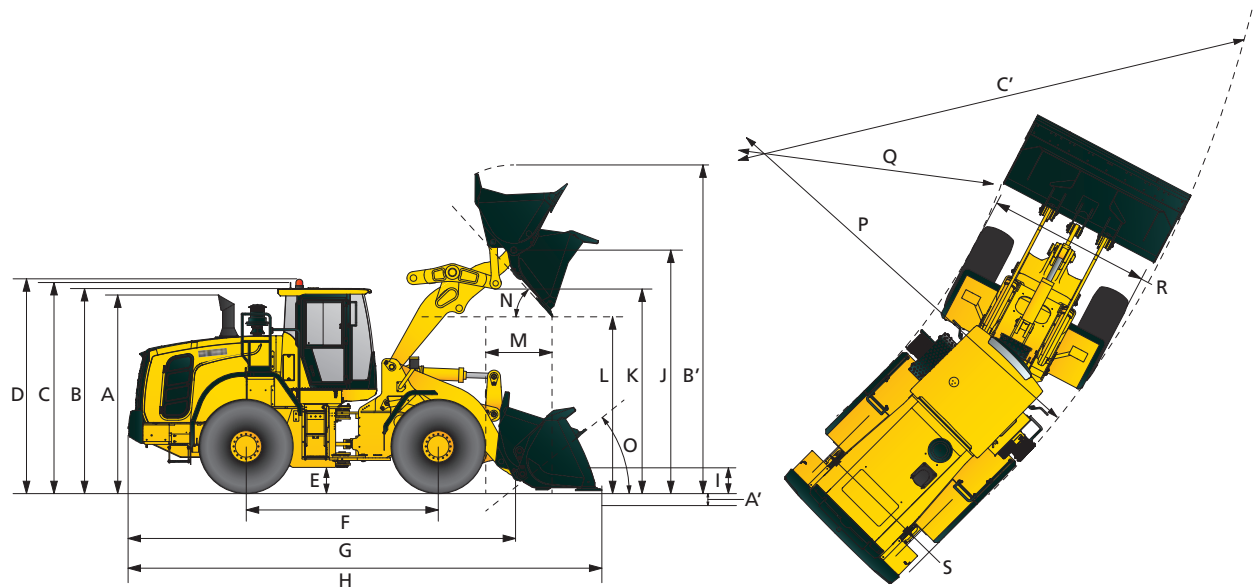
* Distance of 15 m (49.2 ft), moving forward in second gear ratio.

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DIMENSIONS

All dimensions are approximate.



Description	HL965		HL965XT	
	mm	in	mm	in
A. Height to Top of Exhaust Pipe	3375	132.9	3375	132.9
B. Height to Top of Cabin	3450	135.8	3450	135.8
C. Height to Top of Product Link Antenna	3850	151.6	3850	151.6
D. Height to Top of Warning Beacon	3580	140.9	3580	140.9
E. Ground Clearance	410	16.1	410	16.1
F. Wheelbase	3300	130.0	3300	130.0
G. Overall Length (without bucket)	6980	274.8	7560	297.6
H. Shipping Length (with bucket level on ground)	8280	326.0	8850	348.4
I. Hinge Pin Height at Carry Position	480	18.9	615	24.2
J. Hinge Pin Height at Maximum Lift	4145	163.2	4630	182.3
K. Lift Arm Clearance at Maximum Lift	3485	137.2	3955	155.7
L. Dump Clearance at Maximum Lift and 45° Discharge	2955	116.3	3440	135.4
M. Reach at Maximum Lift and 45° Discharge	1400	55.1	1455	57.3
N. Dump Angle at Maximum Lift and Dump (on stops)	50	1.9	50	1.9
O. Roll Back Angle	Ground	42	1.6	42
	Carry	47	1.8	49
P. Clearance Circle (diameter) to Outside of Tires	12045	474.2	12045	474.2
Q. Clearance Circle (diameter) to Inside of Tires	6530	257.1	6530	257.1
R. Width over Tires (unloaded)	2760	108.7	2760	108.7
S. Tread Width	2160	85.0	2160	85.0

* A', B', C' are indicated on the next page

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OPERATING SPECIFICATIONS WITH BUCKETS								
Linkage		Standard Linkage						High Lift Linkage
Bucket Type		General Purpose - Pin On						
Edge Type		Bolt-On Cutting Edges		1 Piece Tooth		2 Piece Tooth		
Capacity - Rated	m ³	3.60	3.80	3.40	3.60	3.40	3.60	-
	yd ³	4.71	4.97	4.45	4.71	4.45	4.71	-
Capacity - Rated at 110% Fill Factor	m ³	3.96	4.18	3.74	3.96	3.74	3.96	-
	yd ³	5.18	5.47	4.90	5.18	4.90	5.18	-
Width	mm	3000	3000	3050	3050	3070	3070	-
	ft / in	9' 10.1"	9' 10.1"	10' 0.1"	10' 0.1"	10' 0.9"	10' 0.9"	-
Dump Clearance at Maximum Lift and 45° Discharge	mm	2955	2920	2830	2795	2795	2760	+ 485
	ft / in	9' 8.3"	9' 7.0"	9' 3.4"	9' 2.0"	9' 2.0"	9' 0.7"	+ 1' 7.1"
Reach at Maximum Lift and 45° Discharge	mm	1400	1435	1485	1520	1505	1540	+ 55
	ft / in	4' 7.1"	4' 8.5"	4' 10.5"	4' 11.8"	4' 11.3"	5' 0.6"	+ 2.2"
A' Digging Depth	mm	90	90	115	115	125	125	+ 0
	ft / in	3.5"	3.5"	4.5"	4.5"	4.9"	4.9"	+ 0
Shipping Length (with Bucket)	mm	8280	8330	8430	8480	8470	8520	+ 570
	ft / in	27' 2.04"	27' 4.0"	27' 7.9"	27' 9.9"	27' 9.5"	27' 11.4"	+ 1' 10.4"
B' Overall Height with Bucket at Maximum Lift	mm	5700	5750	5700	5750	5700	5750	+ 485
	ft / in	18' 8.4"	18' 10.4"	18' 8.4"	18' 10.4"	18' 8.4"	18' 10.4"	+ 1' 7.1"
C' Loader Clearance Circle with Bucket at Carry Position	mm	13580	13610	13735	13765	13785	13815	+ 460
	ft / in	44' 6.6"	44' 7.8"	45' 0.7"	45' 1.9"	45' 2.7"	45' 3.9"	+ 1' 6.1"
Static Tipping Load, Straight (No Tire Deflection)	kg	14700	14600	14910	14830	14910	14830	- 1,300
	lb	32410	32185	32780	32695	32780	32695	- 2865
Static Tipping Load, Articulated (No Tire Deflection)	kg	12720	12630	12900	12830	12900	12830	- 1200
	lb	28045	27845	28440	28285	28440	28285	- 2645
Breakout Force	kg	17400	16755	18465	17745	18465	17745	- 135
	lb	38360	36940	40710	39120	40710	39120	- 300
Operating Weight*	kg	20100	20145	20015	20060	20015	20060	+ 860
	lb	44315	44410	44125	44225	44125	44225	+ 1895

* All height and tire related dimensions are with standard 23.5 R25, L3 tires

DENSITY OF OPERATING MATERIALS		
Material Density [ton / m ³]		
Earth/Clay		1.5 ~ 1.7
Sand and Gravel		1.5 ~ 1.7
Aggregate	25 ~ 76 mm (1" to 3 in)	1.6 ~ 1.7
	19 mm (0.75 in) and larger	1.8

DENSITY OF OPERATING MATERIALS				Material Density [ton / m ³]																			
Lift arm	Bucket	Type	m ³	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5		
Standard lift arm	General Purpose	Cutting edge	3.6							4.1 m ³												3.4 m ³	
		Cutting edge	3.8							4.4 m ³													3.6 m ³
		1-Bolt on tooth	3.4									3.9 m ³											3.2 m ³
		1-Bolt on tooth	3.6								4.1 m ³												3.4 m ³
		2-Bolt on tooth	3.4									3.9 m ³											3.2 m ³
		2-Bolt on tooth	3.6								4.1 m ³												
High lift arm	General Purpose	Cutting edge	3.6							4.1 m ³												3.4 m ³	
		Cutting edge	3.8							4.4 m ³													3.6 m ³
		1-Bolt on tooth	3.4									3.9 m ³											3.2 m ³
		1-Bolt on tooth	3.6								4.1 m ³												3.4 m ³
		2-Bolt on tooth	3.4									3.9 m ³											3.2 m ³
		2-Bolt on tooth	3.6								4.1 m ³												



CABIN & INTERIOR	STD	OPT
Alternator, 95 A	●	
Alarms, audible and visual		
Air filter clogging	●	
Transmission error	●	
Battery voltage	●	
Brake oil pressure	●	
Engine oil pressure	●	
Parking brake	●	
Fuel level	●	
Hydraulic oil temperature	●	
Engine coolant temperature	●	
Transmission oil temperature	●	
Service brake oil pressure	●	
Engine coolant level	●	
Alarm, back-up	●	
Batteries, PT		
1315 CCA, 12 V, 2 pieces	●	
Gauges		
Engine coolant temperature	●	
Fuel level	●	
Speedometer	●	
Transmission oil temperature	●	
Horn, electric	●	
Indicator lights		
Torque converter lock up	●	
High beam	●	
Turn signal	●	
FNR joystick steering		●
Pilot cut off	●	
LCD Display		
Clock and fault code	●	
Operating hour counter	●	
Engine rpm	●	
Transmission gear range	●	
Indicator	●	
Job time and distance	●	
Temperature (coolant, hydraulic oil, t/m oil)	●	
Lighting system		
LED dome light	●	
2 stop and tail lights	●	
4 turn signals	●	
Brake lights (counterweight)	●	
2 head lights on front tower	●	
2 working lights on front roof	●	
4 working lights on front roof, 2 working lights on rear roof		●
4 working lights (2 xenon) on front roof, 2 working lights on rear roof		●
4 working lights (LED) on front roof, 2 working lights (LED) on rear roof		●
2 working lights on grill	●	
2 working lights (LED) on grill		●
Switches		
Hazard	●	
Selective catalytic reduction	●	
Engine hood open	●	
Parking	●	
Battery master switch	●	
FNR shifter	●	
Differential Lock	●	
Secondary steering	●	
Pilot cut off	●	
Ignition		
Key		●
Button	●	
Membrane Switches in monitor		
Main light	●	
Work light	●	
Auto grease		●
Quick coupler		●
Ride control	●	
Work load	●	
Beacon lamp		●
Rear wiper	●	
Mirror heat	●	
Auto position	●	
Fine modulation	●	

CABIN & INTERIOR	STD	OPT
Cab (sound suppressed)		
Cigar lighter & ashtray	●	
Coat hook	●	
Automatic climate control		
Air conditioner & heater	●	
Defroster	●	
Intermittent wiper and washer, front and rear	●	
Seat		
2" retractable seat belt & adjustable mechanical suspension (heated)	●	
2" retractable seat belt & adjustable air suspension (heated)		●
3" retractable seat belt & adjustable air suspension (heated)		●
Personal storage space		
Console box	●	
Holder, can and cup	●	
Rear view mirrors (1 inside)	●	
Rear view mirrors (2 outside)	●	
Rear view mirrors (2 outside, Heated)	●	
Steering column, tilt and telescopic	●	
Steering wheel with knob	●	
Roller type sunshade (front window)	●	
Roller type sunshade (rear window)		●
Tinted safety glass	●	
One door cab	●	
Magazine pocket	●	
Pedals		
One accelerator pedal	●	
One brake pedal	●	
Dual-Brake pedal		●
Accel pedal with ECO switch	●	
Accel pedal without ECO switch		●
Radio/USB player	●	
Rubber floor mat	●	
Wrist rest	●	
24-volt to 12-volt DC converter (20A)		●
ENGINE		
Antifreeze	●	
Engine, CUMMINS, QSL9		
Tier 4 Final / Stage IV	●	
Engine enclosure, lockable	●	
Fan guard	●	
Fuel/water separator (return)	●	
Clean emission module		
DOC and SCR	●	
Rain cap, engine air intake	●	
Radiator	●	
Fuel warmer	●	
Coolant level sight gauge	●	
Engine oil level dipstick gauge	●	
3 Stage Air Precleaner		●
POWER TRAIN		
Service brake (enclosed wet-disk)	●	
Parking brake	●	
Torque converter	●	
Transmission F4 / R3, computer controlled, electronic soft shift, auto-shift and kick-down features included		●
Transmission F5 / R3 with lock-up clutch	●	
Transmission oil sight level	●	
Limited slip differential (front, rear)		●
Transmission oil cooler		●
Transmission oil cooler with thermostat	●	
Hydraulic lock differential (front)	●	
Axle cooling system		●
Tires		
23.5 R25, L3	●	
23.5 R25, XHA2		●
23.5-25, 20PR, L3		●
23.5-25, 20PR, L5		●
Travel speed limiter (20-40 km/h)		●

HYDRAULIC SYSTEM	STD	OPT
Boom kickout, automatic	●	
Bucket positioner, automatic	●	
Diagnostic pressure taps	●	
Hydraulic oil cooler	●	
Hydraulic control, 2 spool		●
Hydraulic control, 3 spool	●	
EH control (Joystick)	●	
EH control (Fingertip)		●
Hydraulic control (Joystick)		●
Hydraulic control (Fingertip)		●
Lever control-single axle (EH control)		●
Joystick Steering		●
Ride control system	●	
Secondary steering system	●	
Extra piping-for auxiliary function		●
Quick coupler piping		●
Auto grease system		●
OTHER		
Articulation locking bar	●	
Counterweight	●	
Optional counter weight		●
Door and cab locks, one key	●	
Doors, service access (locking)	●	
Drawbar with pin	●	
Ergonomically located and slip resistant, left & right	●	
Handrails	●	
Ladders	●	
Platforms	●	
Steps	●	
Fenders (front / rear)	●	
Hydraulic oil level sight gauge	●	
Lift and tie-down hooks	●	
Loader linkage, sealed	●	
Z-bar design	●	
Vandalism protection caplocks	●	
Tool kit		●
Tooth, 1 piece, bolt-on type		●
Tooth, 2 pieces, bolt-on type		●
Cutting edge, bolt-on type	●	
Quick coupler		●
Guards		
Crankcase		●
Transmission		●
Mud guards		●
Wheel chock		●
License plate & lamp (LED)		●
Hi MATE (Remote Management System)		●
Rearview camera		●
SAFETY		
Beacon light, rotating		●
LED beacon light		●
Fire extinguisher		●
Operator suit		●
Boom safety lock		●
LED rear combi lamp		●
LED head light		●

STD = Standard
OPT = Optional

- * Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.
- * The photos may include attachments and optional equipment that are not available in your area.
- * Materials and specifications are subject to change without advance notice.
- * All imperial measurements rounded off to the nearest pound or inch.
- * The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant HFC-134a (Global Warming Potential = 1430). The system contains 0.75 kg of refrigerant which has a CO₂ equivalent of 1.0725 metric tonne.