

Operating Weight 269 HP (198 kW) / 2,100 rpm | 20,730 kg / 45,700 lb |

Standard Bucket 3.6 m³ / 4.7 yd³



SPECIFICATIONS HL965

ENGINE		
Make/model	Cummins / QSL9	
	Water-cooled, 4-cycle, turbocharged	
Туре	charge air-cooled, direct-injection,	
	electronically controlled diesel engine.	
Gross power	272 HP (200 kW) / 2,100 rpm	
Net power	269 HP (198 kW) / 2,100 rpm	
Maximum torque	148 Kg.m (1,070 lbs.ft) / 1,400 rpm	
No. of cylinders	6	
Bore x Stroke	114 mm (4.49") x 145 mm (5.69")	
Displacement	8.9 ℓ (543 in ³)	
Compression ratio	17.8:1	
Air cleaner	Dry, two-stage dual elements	
Alternator	24 V - 95A	
Battery	2 x 12 V, 900 CCA	
Starting motor	24 V-7.85 kW	

TRANSMISSION	
Torque converter type	3-elements, single-stage, single-phase
Tire	23.5 R25 , L3

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

Travel speed,	km/h (mnh)	4 speed T/M	5 speed T/M
iraverspeed,	KIII/II (IIIPII)	4 speed 1/1vi	with lockup clutch
	1st	6.0 (3.7)	6.3 (3.9)
	2nd	11.4 (7.1)	11.1 (6.9)
Forward	3rd	22.9 (14.2)	17.1 (10.6)
	4th	37.4 (23.2)	26.6 (16.5)
	5th		40.0 (24.9)
	1st	6.3 (3.9)	6.7 (4.2)
Reverse	2nd	12.0 (7.5)	11.7 (7.3)
	3rd	24.2 (15.0)	28.0 (17.4)

AXLES		
Drive system	Four-wheel drive system	
Mount	Rigid front axle and oscillating rear axle	
Rear axle oscillation	Oscillation ±12° of center pin-loaded	
Hub reduction	Planetary reduction at wheel end	
Differential	Hydraulic Lock (front) / Conventional (rear)	
Reduction ratio	27.0	

OVERVIEW				
Description		UNIT	HL965	HL965XT
Operating	Operating weight		20,730	20,960
Operating w			(45,700)	(46,210)
Bucket	Heaped	m³ (yd³)	3.6 (4.7)	3.6 (4.7)
capacity	Struck	m³ (yd³)	3.1 (4.0)	3.1 (4.0)
Drankout for	Dunning the same in the same		17,400	17,265
Breakout force-bucket		kg (lb)	(38,360)	(38,063)
	Straight	kg (lb)	16,155	13,400
Tinning land			(35,615)	(29,540)
Tipping load	Full turn	1 (11)	13,975	11,520
	Full turn kg	kg (lb)	(30,810)	(25,395)

TIRES	
Type	Tubeless, loader design tires
Standard	23.5 R25, L3
	23.5 - 25, 20 PR, L3
Options include	23.5 - R25, XHA2, L3
<u> </u>	20.5 - 25, 16 PR, L3

HYDRAULIC SYSTEM			
Туре	Load-sensing hydraulic system		
Dump	Variable-displacement piston pump,		
Pump	249 ℓ/min (66 gpm)		
Control valve	2 spool (bucket, boom)		
Control valve	3 spool (bucket, boom, aux)		
System pressure	280 kgf/cm ² (3,983 psi)		
	The valve has four functions:		
Lift circuit	raise, hold, lower and float.		
LITT CITCUIT	Can adjust automatic kick-out from		
	horizontal to full lift.		
	The valve has three functions:		
Tilt circuit	tilt back, hold and dump.		
THE CITCUIT	Can adjust automatic bucket		
	positioner to desired load angle.		
	Type: Double acting		
HL965	No. of cylinders-bore x stroke;		
Cylinder HL965XT	Lift: 2-140 mm (5.5") x 785 mm (30.9")		
	Tilt: 160 mm (6.3") x 560 mm (22")		
	Raise: 5.8 sec		
Cycle time	Dump: 1.4 sec		
Cycle time	Lower: 3.1 sec		
	Total: 10.3 sec		

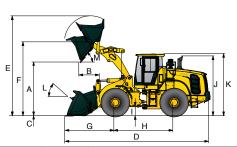
BRAKES			
	Hydraulically actuated, wet-disc		
Service brakes	brakes actuate all 4 wheels		
Service Drakes	Independent axle-by-axle system		
	Wheel speed brake		
Parking brake	Spring-applied, hydraulically		
raiking brake	released brake		
	When brake oil pressure drops,		
Emergency brake	indicator light alerts operator and		
	parking brake automatically applies		

STEERING SYSTEM		
T	Load-sensing hydrostatic articulated	
Туре	steering	
Pump	Variable-displacement piston pump,	
rump	115 l/min (30 gpm)	
Relief valve setting	250 kgf/cm ² (3,555 psi)	
Cylinder	Double-acting	
	75 mm (2.9") X 424 mm (16.7")	
Steering angle	40° both right and left angle,	
	respectively	
Additional features	Center-point frame articulation	
Additional realules	Tilt and telescopic steering column	

SERVICE REFILL CAPACITIES			
Fuel tank	300 ℓ (79.3 US gal)		
DEF tank	27 ℓ (7.1 US gal)		
Cooling system	44 ℓ (11.6 US gal)		
Crankcase	19 ℓ (5.0 US gal)		
Transmission	33 ℓ (8.7 US gal)		
Front axle	42 ℓ (11.1 US gal)		
Rear axle	40 ℓ (10.6 US gal)		
Hydraulic tank	115 ℓ (30.4 US gal)		
Hydraulic system	21E 0/E6 9 US gal\		
(including tank)	215 ℓ (56.8 US gal)		

DIMENSIONS
All dimensions are approximate.





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Description		UNIT	HL965	HL965XT
Bucket Type		General p	ourpose bolt-on	cutting edge
, ,	clearance at ght and 45° gle.	mm (ft-in)	2,955 (9' 8.3")	3,440 (11' 3.4")
B. Reach	Full lift	mm	1,400	1,455
	ruii iii t	(ft-in)	(4' 7.1")	(4' 9.3")
	2,134 mm	mm	1,920	2,330
	height (7 feet)	(ft-in)	(6' 3.6")	(7' 7.7")
C. Digging o	lepth	mm	90	90
		(ft-in)	(0.3")	(0.3")
D. Overall	on ground	mm	8,280	8,850
length		(ft-in)	(27' 2")	(28' 0.6")
	at carry	mm	8,195	8,790
		(ft-in)	(26' 10.6")	(28' 10")

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	Description	UNIT	HL965	HL965XT
	E. Overall height	mm	5,700	6,185
	(fully raised)	(ft-in)	(18' 8.4")	(20' 3.5")
	F. Bucket pivot max. height	mm	4,145	4,630
		(ft-in)	(13' 7")	(15' 2.3")
	G. Front overhang	mm	2,900	3,370
		(ft-in)	(9' 6.1")	(11' 0.7")
	H. Wheelbase	mm	3,300	3,300
		(ft-in)	(10' 9.9")	(10' 9.9")
	I. Ground clearance	mm	410	410
		(ft-in)	(1' 4.1")	(1' 4.1")
	J. Height over exhaust	mm	3,375	3,375
		(ft-in)	(11' 0.9")	(11' 0.9")
	K. Height over cab	mm	3,450	3,450
		(ft-in)	(11' 3.9")	(11' 3.9")
	L. Rollback on ground	deg	42	42
	angle at carry	deg	47	47
	M. Dump angle	deg	50	50
	Clearance circle, over bucke	et mm	13,580	14,040
	(carry position)	(ft)	(44' 6.6")	(46' 0.8")
	Clearance circle,	mm	12,045	12,045
	outside of tires	(ft)	(39' 6.2")	(39' 6.2")
	Clearance circle,	mm	6,530	6,530
	inside of tires	(ft)	(21'5")	(21'5")
	N. Overall with	mm	3,000	3,000
	width bucket	(ft-in)	(9' 10.1")	(9' 10.1")
	without	mm	2,770	2,770
	bucket	(ft-in)	(9' 1")	(9' 1")
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HL965 / DENSITY C	OF OPERATING MATERIALS				
Loose material		Material Density			
Earth/clay		1.5~1.7 tons / m³ (2,528~2,865 lb / yd³)			
Sand and gravel		1.5~1.7 tons / m³ (2,528~2,865 lb / yd³)			
Aggregate	mm (1 " to 3 ")	1.6~1.7 tons / m³ (2,697~2,865 lb / yd³)			
	mm (3") and larger	1.8 tons / m³ (3,034 lb / yd³)			

HL965 /	DENSIT	Y OF OPERATI	ING N	MATERIALS					
Lift arm Bucket	Туре	m³	m³ Material Density [tons/m³]						
			0.8 0.9 1.0 1.1 1.2 1.3 1.4 (1,349) (1,517) (1,686) (1,854) (2,023) (2,191) (2,360)	1.5 1.6 1.7 (2,528) (2,697) (2,86	.7 1.8 365) (3,034)	1.9 (3,203)	2.0 2.1 2.2 2.3 2.4 2.5 (3,371) (3,540) (3,708) (3,878) (4,046) (4,215)		
Standard General lift arm Purpose	Cutting edge	3.6 (4.7)	4.1 m³ (5.4 yd³)				m³ (4.4 yd³)		
		Cutting edge	3.8 (5.0)	4.4 m³ (5.7 yd³)		3.6 r	3.6 m³ (4.7 yd³)		
	General	1-Bolt on tooth	3.4 (4.4)	3.9 m³ (5.	1 yd³)			3.2 m³ (4.2 yd³)	
	Purpose	1-Bolt on tooth	3.6 (4.7)	4.1 m³ (5.4 yd³)			3.4	m³ (4.4 yd³)	
		2-Bolt on tooth	3.4 (4.4)	3.9 m³ (5.	1 yd³)			3.2 m³ (4.2 yd³)	
		2-Bolt on tooth		4.1 m³ (5.4 yd³)			3.4	m³ (4.4 yd³)	
		Cutting edge	3.6 (4.7)	4.1 m³ (5.4 yd³)		3.4 r	n³ (4	.4 yd³)	
lift arm		Cutting edge		4.4 m³ (5.7 yd³)	3.	.6 m³ (4.	7 yd³)	
	General	1-Bolt on tooth	3.4 (4.4)	3.9 m³ (5.1 yd³)			3.2	m³(4.2 yd³)	
	Purpose	1-Bolt on tooth	3.6 (4.7)	4.1 m³ (5.4 yd³)		3.4 r	n³ (4	.4 yd³)	
		2-Bolt on tooth	3.4 (4.4)	3.9 m³ (5.1 yd³)			3.2	m³ (4.2 yd³)	
		2-Bolt on tooth		4.1 m³ (5.4 yd³)		3.4 r	m³ (4	.4 yd³)	

CAB & INTERIOR	STD	ОРТ
Alternator, 95 Amp	•	
Alarms, audible and visual		
Air filter clogging Transmission error	•	
Battery voltage	•	
Brake oil pressure		
Engine oil pressure		
Parking brake	•	
Fuel level	•	
Hydraulic oil temperature	•	
Coolant temperature	•	
Transmission oil temperature	•	
Service brake oil pressure Coolant level	· •	
Water in fuel	•	
Alarm, backup	•	
Batteries, PT		
900 CCA, 12V, (2)	•	
Gauges		
Engine coolant temperature	•	
Fuel level	•	
Speedometer Transmission oil temperature	•	
Horn, electric	•	
Indicator lights		
T/C lockup	•	
High beam	•	
Turn signal	•	
FNR joystick steering		•
Pilot cutoff	•	
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 taillights	•	
4 turn signals	•	
Brake lights (counterweight)	•	
2 headlights 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	_	
Switches		
Hazard		
Ignition	•	
Parking	•	
Battery master switch	•	
FNR Diff lock	•	
Diff lock SCR cleaning / inhibit	•	
Secondary steering test	-	
Pilot cutoff		
Integrated monitor switches	·	
Main light switch	•	
Work light switch	•	
Auto grease switch	•	
Quick coupler switch	•	
Ride control switch Work load switch	•	
Beacon lamp switch		
Rear wiper switch	•	
Mirror heat switch	•	
Auto position switch	•	
Fine modulation switch		

Cab (sound suppressed and pressurized) with Cigar lighter and ashtray Coat hook Automatic climate control Air conditioner and heater Defroster Intermittent wiper and washer, front and rear Seat 3" retractable seat belt and adjustable air suspension (heated) Personal storage space Console box Holder, can and cup Rearview mirrors (1 inside) Rearview mirrors (2 outside) Rearview mirrors (2 outside) Rearview mirrors (2 outside) Steering column, tilt and telescopic Steering wheel with knob Roller type sunshade (front window) Roller type sunshade (front window) Tinted safety glass One door cab Magazine pocket Pedals One accelerator pedal One brake pedal Dual-brake pedal Dual-brake pedal Dual-brake pedal Pushor home Bushor floor mat Armrest 24V to 12V DC converter (20 amps) ENGINE Engine, Cummins, QSL9 Tier 4 Final / Stage 4 Engine enclosure, lockable Fan guard Reversible cooling fan Fuel/water separator Antifreeze Clean emission module DOC and SCR Radiator Fuel warmer Coolant-level sight gauge Engine oil-level dipstick gauge 3-stage air precleaner Air cleaner with auto dust eject POWER TRAIN STD OPT Brakes: service, enclosed wet-disc Parking brake Torque coolers with thermostat Hydraulic lock differential (front) / Conventional differenti	CAR O INTERIOR	CTD	OPT
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POWER TRAIN	STD	ОРТ
Tires		
23.5 R25, L3	•	
23.5-25, 20 PR, L3		•
23.5-R25, XHA2, L3		•
20.5-25, 16PR, L3		•
Travel speed limiter (20-40 km/h)	•	
HYDRAULIC SYSTEM	STD	OPT
Boom kick-out, automatic	•	
Bucket positioner, automatic	•	
Diagnostic pressure taps	•	
Hydraulic oil cooler	•	
Hydraulic control, 3 spool	•	
Joystick control (EH control)	•	
Fingertip control (EH control)		•
Joystick steering		•
Ride control system	•	
Secondary steering system		•
Extra piping for auxiliary function		•
Quick coupler piping Auto grease system	•	
	CTD	OPT
OTHER	STD	OPT
Articulation locking bar Counterweight	-	
Additional counterweight	•	_
Door and cab locks, one key		
Doors, service access (locking)		
Drawbar with pin		
Ergonomically located and slip-		
resistant, left and right		
Handrails Ladders		
Platforms	•	
Steps		
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	I	
Crankcase		•
Transmission Half fenders front and rear	_	•
Full rear fenders		
Wheel chock		•
License plate and lamp		
Hi-mate remote management system		
Mobile		
Satellite		•
SAFETY	STD	OPT
Beacon light, rotating		•
Fire extinguisher		•
Rearview camera	•	

- * 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.

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CONST	IRUCT	ION EC	UIPME	TV

PLEASE CONTACT

www.hceamericas.com 6100 Atlantic Blvd., Norcross, GA 30071 TEL (678) 823-7777 FAX (678) 823-7778