

Operating Weight 222 HP (166 kW) / 2,200 rpm | 19,930 kg / 43,940 lb

Standard Bucket 3.3 m³/4.3 yd³



SPECIFICATIONS HL960HD

ENGINE	
Make/model	CUMMINS / QSB6.7
Wake/model	Watercooled, 4-cycle, turbocharged
Type	air-cooled, direct injection, electronically
.,,,,	controlled diesel engine
Gross power	225 HP (168 kW) / 2,200 rpm
Net power	222 HP (166 kW) / 2,200 rpm
Maximum torque	106 kg·m (770 lb·ft) / 1,500 rpm
No. of cylinders	6
Bore x stroke	107 mm (4.21") x 124 mm (4.88")
Displacement	6.7 (408 in ³)
Compression ratio	17.3:1
Air cleaner	Dry, 2-stage dual elements
Alternator	24 V – 95 Amp
Battery	2 x 12 V – 160 Ah, 900 CCA
Starting motor	24 V - 7.8 kW
TRANSMISSION	
Torque converter type	3-element, single-stage, single-phase
Tire	23.5 R25, L3

*	Fully automatic power shift,	countershaft type with soft-shift in range and
	direction.	

Travel speed, km/h (mph)		4 speed T/M	5 speed T/M with lockup clutch	
Forward	1st	6.3 (3.9)	6.6 (4.1)	
	2nd	11.9 (7.4)	11.6 (7.2)	
	3rd	24 (14.9)	17.9 (11.1)	
	4th	38.9 (24.2)	27.9 (17.3)	
	5th		40.0 (24.9)	
Reverse	1st	6.6 (4.1)	7.1 (4.4)	
	2nd	12.6 (7.8)	12.3 (7.6)	
	3rd	25.3 (15.7)	29.4 (18.3)	

AXLES	
Drive system	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	±12° center pin-loaded
Hub reduction	Planetary reduction at wheel end
Differential	Hyd Lock (front) / Conventional (rear)
Reduction ratio	24.666
Differential	Hyd Lock (front) / Conventional (rear)

OVERVIEW					
Description		UNIT	HL960HD	HL960HDXT	
Operating weight		kg (lb)	19,930 (43,940)	20,760 (45,770)	
Bucket	Heaped	m³ (yd³)	3.3 (4.3)	3.3 (4.3)	
capacity	Struck	m³ (yd³)	2.9 (3.8)	2.9 (3.8)	
Breakout force–bucket		kg (lb)	16,670 (36,750)	16,430 (36,220)	
Tipping load	Straight	kg (lb)	15,890 (35,030)	12,985 (28,625)	
	Full turn	kg (lb)	13,475 (29,705)	11,145 (24,570)	

TIRES	
Туре	Tubeless, loader design tires
Standard	23.5 R25, L3
Options include	23.5-25, 20 PR, L3
	23.5-25, 20 PR, L5
	23.5, R25 XHA2, L3
	20.5-25, 16PR, L3

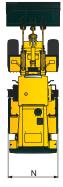
HYDRAULIC SYSTEM			
Туре	Load-sensing hydraulic system		
Dumn	Variable-displacement piston pump,		
Pump	246 l/min (65 gpm)		
Control valve	2-spool (bucket, boom)		
Control valve	3-spool (bucket, boom, aux)		
System pressure	280 kgf/cm ² (3,983 psi)		
	Valve has four functions:		
Lift circuit	raise, hold, lower and float		
Lift Circuit	Can adjust automatic kick-out from		
	horizontal to full lift		
	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		
HL960HD	No. of cylinders–bore x stroke:		
Cylinder HL960HDXT	Lift: 2-140 mm (5.5") x 765 mm (30.1")		
	Tilt: 1-160 mm (6.3") x 530 mm (20.9")		
	Raise: 5.9 sec		
	Dump: 1.3 sec		
Cycle times	Lower: 3.1 sec		
	Total: 10.3 sec		

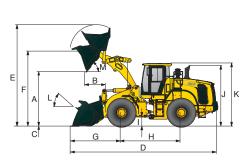
BRAKES		
Service brakes	Hydraulically actuated, wet-disc	
	brakes actuate all 4 wheels	
	Independent axle-by-axle system	
	Self-adjusting and wheel speed brake	
Parking brake	Spring-applied, hydraulically	
raiking blake	released brake	
	When brake oil pressure drops,	
Emergency brake	indicator light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

STEERING SYSTEM		
Time	Load-sensing hydrostatic articulated	
Туре	steering	
Division	Variable-displacement piston pump,	
Pump	120 l/min (32 gpm)	
Relief valve setting	250 kgf/cm ² (3,556 psi)	
Cylinder	Double acting	
	2-75 mm (2.9") x 424 mm (16.7")	
Stooring angle	40° both right and	
Steering angle	left angle, respectively	
Additional features	Center-point frame articulation Tilt and telescopic steering column	

SERVICE REFILL CAPACITIES			
Fuel tank	300 ℓ (79.3 gal)		
DEF tank	27 Q (7.1 gal)		
Cooling system	42 Q (11.1 gal)		
Crankcase	18 Q (4.8 gal)		
Transmission	33 ((8.7 gal)		
Front axle	42 (11.1 gal)		
Rear axle	40 l (10.6 gal)		
Hydraulic tank	110 l (29.1 gal)		
Hydraulic system (including tank)	200 ℓ (52.8 gal)		

DIMENSIONSAll dimensions are approximate.





Description		UNIT	HL960HD	HL960HDXT	
Bucket type		Genera	General purpose bolt-on cutting edge		
' '	g clearance at max. nd 45° dump angle	mm (ft-in)	2,935 (9' 7.5")	3,365 (11' 0")	
B. Reach	Full lift	mm (ft-in)	1,285 (4' 2.5")	1,380 (4' 6")	
	2,134 mm height (7 feet)	mm (ft-in)	1,815 (5' 11.5")	2,230 (7' 4")	
C. Digging	depth	mm (in)	90 (3.5")	145 (5.7")	
D. Overall length	on ground	mm (ft-in)	8,140 (26' 8.5")	8,695 (28' 6")	
	at carry	mm (ft-in)	8,060 (26' 5")	8,530 (27' 11.5")	

Description		UNIT	HL960HD	HL960HDXT
E. Overall height		mm	5,640	6,070
(fully raised)		(ft-in)	(18' 6")	(19' 11")
F Dusket pivet b	sight (many)	mm	4,105	4,535
F. Bucket pivot h	eight (max)	(ft-in)	(13' 5.6")	(14' 10.5")
C Front overbor		mm	2,810	3,275
G. Front overhar	ig	(ft-in)	(9' 2.6")	(10' 9")
H. Wheelbase		mm	3,300	3,300
n. wheelbase		(ft-in)	(10' 9.9")	(10' 9")
I. Ground cleara	262	mm	410	410
i. Ground clearai	nce	(ft-in)	(1' 4.1")	(1' 4")
I Height aver av	bauet	mm	3,360	3,360
J. Height over ex	Haust	(ft-in)	(11' 0.3")	(11' 0.3")
K. Height over cab		mm	3,450	3,450
		(ft-in)	(11' 3.8")	(11' 4")
L. Rollback	on ground	deg	42	42
angle	at carry	deg	47	48
M. Dump angle		deg	50	50
Clearance circle,	over bucket	mm	13,415	13,860
(carry position)		(ft-in)	(44')	(45' 6")
Clearance circle,		mm	12,050	12,050
outside of tires		(ft-in)	(39' 6")	(39' 6")
Clearance circle,		mm	6,510	6,510
inside of tires		(ft-in)	(21' 4.3")	(21' 4.3")
	with	mm	2,900	2,900
N. Overall	bucket	(ft-in)	(9' 6.2")	(9' 6.2")
width	without bucket	mm	2,770	2,770
	without bucket	(ft-in)	(9' 1.1")	(9' 1.1")

HL960 HD / DE	ENSITY OF OPERATING MATERIA	LS
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	25~76 mm (1" to 3")	$1.6 \sim 1.7 \text{ tons / m}^3 (2,697 \sim 2,865 \text{ lb / yd}^3)$
Aggregate	19 mm (3") and larger	1.8 tons / m³ (3,034 lb / yd³)

HL960 HD / DEN	ISITY OF OPERATING	MATERIA	LS													
				Material Density [t/m³] (lb/yd³)												
Lift arm Bucket	Туре	m³ (yd³)	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
			(1,686) (1,85	4) (2,023)				(2,697)	(2,865)	(3,034)	(3,203)	(3,3/1				(4,045)
	Cutting edge	3.3 (4.3)			3.8	m³ (5.	0 yd³)						3.1 n	า³ (4.0	yd³)	
	Cutting edge	3.5 (4.5)	4.0 m ³ (5.2 yd ³)					3.3 m ³ (4.3 yd ³)								
Standard General lift-arm Purpose	1-piece bolt-on tooth	3.2 (4.2)	3.7 m ³ (m³ (4.8	8 yd³)	d ³) 3.0 m ³ (3.9 yd ³)					yd³)		
	1-piece bolt-on tooth	3.4 (4.4)	3.9 m³ (5.1 yd ⁵				1 yd³)		3.2 m³ (4.2 yd³)							
	2-piece bolt-on tooth	3.2 (4.2)	3.7 m ³ (m³ (4.8	8 yd³)	d ³)					3.0 m ³ (3.9 yd ³)			
	2-piece bolt-on tooth	3.4 (4.4)			3.9	m³ (5.	1 yd³)						3.2 n	n³ (4.2	yd³)	
	2-piece bolt-on tooth and segment edge	3.3 (4.3)	3.8 m³ (5.			0 yd³)						3.1 n	n³ (4.0	yd³)		
	Cutting edge	3.3 (4.3)	3.8	3 m³ (5.	0 yd³)						3.1 n	n³ (4.0	yd³)			
High-lift General arm (XT) Purpose	Cutting edge	3.5 (4.5)	4.0 m³ (5	5.2 yd³)		3.3 m ³ (4.3 yd ³)										
	1-piece bolt-on tooth	3.2 (4.2)	3.7 m³ (4.8 yd³)			8 yd³)			3.0 m ³ (3.9 yd ³)							
	1-piece bolt-on tooth	3.4 (4.4)	3.9 m³ (5.1 yd³)					3.2 m ³ (4.2 yd ³)								
	2-piece bolt-on tooth	3.2 (4.2)	3.7 m ³ (4.8 yd ³)				3.0 m ³ (3.9 yd ³)									
	2-piece bolt-on tooth	3.4 (4.4)	3.9	9 m³ (5.	1 yd³)						3.2 n	n³ (4.2	! yd³)			
	2-piece bolt-on tooth and segment edge	3.3 (4.3)	3.8 m³ (5.0 yd³)				3.1 m ³ (4.0 yd ³)									

Alternator, 95 Amp Alarms, audible and visual	STD	OPT
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 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)		
LED dome light	1 .	
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 grille	•	
Switches		
Hazard	•	
Ignition	•	
Parking	•	
Battery master switch	•	
FNR	•	
	· :	
Diff lock		
Diff lock SCR cleaning / inhibit		
Diff lock		•
Diff lock SCR cleaning / inhibit Secondary steering test	•	•
Diff lock SCR cleaning / inhibit Secondary steering test Pilot cutoff		•
Diff lock SCR cleaning / inhibit Secondary steering test Pilot cutoff Integrated monitor switches		•
Diff lock SCR cleaning / inhibit Secondary steering test Pilot cutoff Integrated monitor switches Main light switch		
Diff lock SCR cleaning / inhibit Secondary steering test Pilot cutoff Integrated monitor switches Main light switch Work light switch	•	•
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	•	•
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	•	•
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	•	•
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	•	
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	•	

CAB & INTERIOR	STD	OPT
Cab (sound suppressed and pressurized Cigar lighter and ashtray) with	
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		ı
Console box	•	
Holder, can and cup Rearview mirrors (1 inside)	•	
Rearview mirrors (2 outside)		
Rearview 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		•
Radio / USB player	•	
Bluetooth	•	
Miracast Rubber floor mat	•	
Armrest		
24-volt to 12-volt DC converter (20A)		
ENGINE	CTD	ODT
	STD	OPT
Engine, Cummins QSB6.7		
Tier 4 Final / Stage 4 Engine enclosure, lockable		
Engine fuel priming pump	•	
Fan guard	•	
Reversible cooling fan	•	
Fuel/water separator	•	
Antifreeze	•	
Clean emission module DOC and SCR		
Radiator		
Starting aid (air intake heater)		
Fuel heater	•	
Coolant-level sight gauge	•	
Engine oil-level dipstick gauge	•	
Fuel heater (dual)		•
Air cleaner with auto dust eject 3-stage air precleaner	•	
	_ •	
POWER TRAIN	STD	OPT
Brakes: service, enclosed wet-disc	•	
Parking brake	•	
Torque converter	•	
Transmission F4 / R3, computer- controlled, electronic soft-shift,		
auto-shift and kick-down features		
Transmission F5 / R3 with		
lockup clutch		
Transmission oil sight level	•	
Limited-slip differential (front, rear) Transmission oil cooler		•
Transmission oil cooler with thermostat	•	
Hydraulic lock differential (front) / Conventional differential (rear)	•	
Hydraulic lock differential (front) /		
Hydraulic lock differential (front) / Conventional differential (rear)		

POWER TRAIN	STD	OPT
Tires	סונ	OFI
23.5 R25, L3		
23.5 - 25, 20PR, L3		
23.5 - 25, 20PR, L5		
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		
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 & right Handrails		
Ladders	-	
Platforms		
Steps		
Hydraulic oil level sight gauge		
Lift and tie-down hooks		
Loader linkage, sealed		
Z-bar design		
Vandalism protection caplocks		
Toolkit		
Tooth, 1 piece, bolt-on type		
Tooth, 2 pieces, bolt-on type		
Cutting edge, bolt-on type		
Pallet forks		
Guards		
Crankcase		
Transmission		•
Half fenders front and rear	•	
Full rear fenders		•
Wheel chock		•
License plate & lamp		•
Hi-Mate remote management system		
Mobile	•	
Satellite		•
	STD	OPT
SAFETY		
Beacon light, rotating		•
		•

- * 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
- * All imperial measurements rounded off to the nearest pound or inch.



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PLEASE	CONTACT