



222 HP (166 kW) / 2,200 rpm | 19,425 kg / 42,825 lb

Operating Weight

Standard Bucket

3.3 m³/4.3 yd³



SPECIFICATIONS HL960

ENGINE	
Make/model	CUMMINS / QSB6.7
Type	Watercooled, 4-cycle, turbocharged
	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 ℓ (408 in³)
Compression ratio	17.3 : 1
Air cleaner	Dry, 2-stage dual elements
Alternator	24V-95A
Battery	2 x 12V–160 Ah, 900 CCA
Starting motor	24V - 7.8 kW

TRANSMISSION	
Torque converter type	3-element, single-stage, single-phase

^{*} 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	6.4 (4.0)	6.7 (4.2)
	2nd	12.1 (7.5)	11.8 (7.3)
	3rd	24.3 (15.1)	18.1 (11.2)
4th		39.5 (24.5)	28.2 (17.5)
	5th		40.0 (24.9)
Reverse	1st	6.7 (4.2)	7.1 (4.4)
	2nd	12.7 (7.9)	12.4 (7.7)
	3rd	25.6 (15.9)	29.4 (18.5)

AXLES	
Drive system	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	±11° center pin-loaded
Hub reduction	Planetary reduction at wheel end
Differential	Hyd Lock (front) / Conventional (rear)
Reduction ratio	24.666

OVERVIEW				
Description		UNIT	HL960	HL960XT
Operating weight		kg (lb)	19,425	19,600
			(42,825)	(43,211)
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	16,430
			(35,160)	(34,500)
Tipping load	Straight	kg (lb)	15,580	12,700
			(34,348)	(27,999)
	Full turn	kg (lb)	13,630	10,900
			(30,049)	(24,030)

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 lpm (65 gpm)	
Control valve	2-spool (bucket, boom)	
Control valve	3-spool (bucket, boom, aux)	
System pressure	280 kgf/cm ² (3,983 psi)	
Lift circuit	Valve has four functions:	
	raise, hold, lower and float	
	Can adjust automatic kick-out from	
	horizontal to full lift	
Tilt circuit	Valve has three functions:	
	tilt back, hold and dump	
	Can adjust automatic bucket	
	positioner to desired load angle	
Cylinder	Type: Double acting	
	No. of cylinders–bore x stroke:	
1110607	Lift: 2-140 mm (5.5") x 765 mm (30.1")	
HL960/	Tilt: 1-160 mm (6.3") x 530 mm (20.9")	
HL960XT	Raise: 5.9 sec	
Cycle times		
	Dump: 1.3 sec	
	Lower: 3.1 sec	
	Total: 10.3 sec	

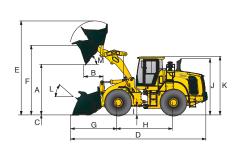
BRAKES	
Service brakes	Hydraulically actuated, wet-disc
	brakes actuate all 4 wheels
	Independent axle-by-axle system
	Self-adjusting and wheel speed brake
Parking brake	Spring-applied, hydraulically
	released brake
Emergency brake	When brake oil pressure drops,
	indicator light alerts operator, and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

STEERING SYSTEM	
Туре	Load-sensing hydrostatic articulated
	steering
Pump	Variable-displacement piston pump,
	120 lpm (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")
Steering angle	40° both right and
	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 l (8.7 gal)		
Front axle	35 ℓ (9.2 gal)		
Rear axle	35 ℓ (9.2 gal)		
Hydraulic tank	110 (29.1 gal)		
Hydraulic system	200 4 /52 8 1)		
(including tank)	200 l (52.8 gal)		

DIMENSIONS
All dimensions are approximate.





Description		UNIT	HL960	HL960XT	
Bucket type	1	General p	General purpose bolt-on cutting edge		
A. Dumping	g clearance at max.	mm	2,935	3,365	
height ar	nd 45° dump angle	(ft-in)	(9' 7.5")	(11' 0.5")	
B. Reach	Full lift	mm	1,295	1,390	
		(ft-in)	(4' 3.0")	(4' 6.7")	
	2,134 mm	mm	1,825	2,230	
	height (7 feet)	(ft-in)	(5' 11.9")	(7' 3.8")	
C. Digging	depth	mm (in)	90 (3.5")	145 (5.7")	
D. Overall	on ground	mm	8,140	8,695	
length		(ft-in)	(26' 8.5")	(28' 6.3")	
	at carry	mm	8,030	8,530	
		(ft-in)	(26' 4.1")	(27' 11.8")	

Description		UNIT	HL960	HL960XT
E. Overall height		mm	5,640	6,070
(fully raise	ed)	(ft-in)	(18' 6.0")	(19' 11.0")
F. Bucket piv	vot height	mm	4,105	4,535
(max)		(ft-in)	(13' 5.6")	(14' 10.5")
G. Front ove	erhang	mm	2,810	3,275
		(ft-in)	(9' 2.6")	(10' 8.9")
H. Wheelba	se	mm	3,300	3,300
		(ft-in)	(10' 9.9")	(10' 9.9")
I. Ground cl	earance	mm	410	410
		(ft-in)	(1' 4.1")	(1' 4.1")
J. Height ov	er exhaust	mm	3,360	3,360
		(ft-in)	(11' 0.3")	(11' 0.3")
K. Height ov	ver cab	mm	3,450	3,450
		(ft-in)	(11' 3.8")	(11' 3.8")
L. Rollback	on ground	deg	42	42
angle	at carry	deg	47	48
M. Dump ar	ngle	deg	50	50
Clearance c	ircle, over	mm	13,150	13,600
bucket (carr	y position)	(ft)	(43.14)	(44.62)
Clearance c	ircle,	mm	11,836	11,836
outside of ti	outside of tires		(38.83)	(38.83)
Clearance c	ircle,	mm	6,368	6,368
inside of tires		(ft)	(20.89)	(20.89)
N. Overall	with	mm	2,900	2,900
width	bucket	(ft-in)	(9' 6.2")	(9' 6.2")
	without	mm	2,770	2,770
	bucket	(ft-in)	(9' 1.1")	(9' 1.1")

HL960 / DENSITY	Y 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	25~76 mm (1" to 3")	1.6~1.7 tons / m³ (2,697~2,865 lb / yd³)		
	19 mm (3") and larger	1.8 tons / m³ (3,034 lb / yd³)		

HL960 / I	DENSITY C	F OPERATING MATER	IALS					
			Material Density [t/m³] (lb/yd³)					
Lift arm	Bucket	Type	m³ (yd³)	1.0 1.1 1.2 1.3 1.4 1.5 (1,686) (1,854) (2,023) (2,191) (2,360) (2,52		1.8 1.9 2.0 (3,034) (3,203) (3,371		2.3 2.4 ,877) (4,045)
		Cutting edge	3.3 (4.3)	3.8 m³ (5.0 yd	l ³)		3.1 m³ (4.0 yc	d³)
	General Purpose	Cutting edge	3.5 (4.5)	4.0 m³ (5.2 yd³)		3.3 i	m³ (4.3 yd³)	
Standard lift-arm		1-piece bolt-on tooth	3.2 (4.2)	3.7 m ³ ((4.8 yd³)		3.0 m ³	(3.9 yd³)
		1-piece bolt-on tooth	3.4 (4.4)	3.9 m³ (5.1 yd	l ³)		3.2 m³ (4.2 yc	d ³)
		2-piece bolt-on tooth	3.2 (4.2)	3.7 m ³ ((4.8 yd³)		3.0 m ³	(3.9 yd³)
		2-piece bolt-on tooth	3.4 (4.4)	3.9 m³ (5.1 yd	l ³)		3.2 m³ (4.2 yc	d ³)
		2-piece bolt-on tooth and segment edge	3.3 (4.3)	3.8 m³ (5.0 yd	1 ³)		3.1 m³ (4.0 yc	J ³)
		Cutting edge	3.3 (4.3)	3.8 m³ (5.0 yd³)		3.1 m ³ (4.0) yd³)	
	General Purpose	Cutting edge	3.5 (4.5)	4.0 m³ (5.2 yd³)		3.3 m ³ (4.3 yd ³)		
		1-piece bolt-on tooth	3.2 (4.2)	3.7 m ³ (4.8 yd ³)		3.0	m³ (3.9 yd³)	
High-lift		1-piece bolt-on tooth	3.4 (4.4)	3.9 m³ (5.1 yd³)		3.2 m ³ (4.2	2 yd³)	
arm (XT)		2-piece bolt-on tooth	3.2 (4.2)	3.7 m ³ (4.8 yd ³)		3.0	m³ (3.9 yd³)	
		2-piece bolt-on tooth	3.4 (4.4)	3.9 m³ (5.1 yd³)		3.2 m ³ (4.2	2 yd³)	
		2-piece bolt-on tooth and segment edge	3.3 (4.3)	3.8 m³ (5.0 yd³)		3.1 m³ (4.0) yd³)	

115%	100%	95%

CAB & INTERIOR	STD	OPT
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	•	_
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		
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	1	
Hazard	•	
Ignition	•	
Parking	•	
Battery master switch	•	
FNR	•	
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	•	
	1	1

CAR O INTERIOR	CTD	OPT
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		
2" retractable seat belt and adjustable air suspension (heated)		•
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, 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		
1 accelerator pedal	•	
1 brake pedal	•	
Dual-brake pedal Radio / USB player	_	•
Bluetooth	•	
Miracast	•	
Rubber floor mat	•	
Armrest	•	
24-volt to 12-volt DC converter (20A)	•	
ENGINE	STD	OPT
	טוט	OFI
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 Rain cap, engine air intake	•	
Rain cap, engine air intake		
Radiator	•	
Radiator Starting aid (air intake heater)	•	
Radiator Starting aid (air intake heater) Fuel heater	•	
Radiator Starting aid (air intake heater)	•	
Radiator Starting aid (air intake heater) Fuel heater Coolant-level sight gauge	•	•
Radiator Starting aid (air intake heater) Fuel heater Coolant-level sight gauge Engine oil-level dipstick gauge	•	•
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	•	
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 POWER TRAIN	• • • • STD	OPT
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 POWER TRAIN Brakes: service, enclosed wet-disc	•	
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 POWER TRAIN Brakes: service, enclosed wet-disc Parking brake	• • • • STD	
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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 POWER TRAIN Brakes: service, enclosed wet-disc Parking brake Torque converter Transmission F4 / R3, computer- controlled, electronic soft-shift, auto-shift and kick-down features	• • • • STD	
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 POWER TRAIN 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	• • • • STD	
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POWER TRAIN	STD	ОРТ
Tires		
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	ОРТ
Boom kick-out, automatic	•	
Bucket positioner, automatic	•	
Diagnostic pressure taps	•	
Hydraulic oil cooler	•	
Hydraulic control, 2 spool	•	
Hydraulic control, 3 spool	•	
Joystick control (EH control)	•	
Lever control–single axis (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 Rearview camera	•	•
	CER	OP
CAFETY	STD	OPT
SAFETY		_
SAFETY Beacon light, rotating Fire extinguisher		•

- * 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.
- $\ensuremath{^{\star}}\xspace$ All imperial measurements rounded off to the nearest pound or inch.



PLEASE CONTACT