

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)	●	
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 grille	●	
Switches		
Hazard	●	
Ignition	●	
Parking	●	
Battery master switch	●	
FNR	●	
Diff lock		●
SCR cleaning / inhibit	●	
Secondary steering test		●
Pilot cutoff	●	
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		●

CAB & INTERIOR	STD	OPT
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		
2" retractable seat belt and adjustable		●
2" static seat belt and adjustable mechanical suspension (heated)		●
3" static seat belt and adjustable mechanical suspension		●
2" 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	●	
Wrist rest	●	
24-volt to 12-volt DC converter (20A)	●	
ENGINE	STD	OPT
Antifreeze	●	
Engine, Cummins QSB6.7		
Tier 4 Final / Stage 4	●	
Engine enclosure, lockable	●	
Engine fuel priming pump	●	
Fan guard	●	
Reversible cooling fan	●	
Fuel/water separator	●	
Clean emission module		
DOC and SCR	●	
Rain cap, engine air intake	●	
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
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		●
Hyd. lock differential (front)	●	
Front axle cooling system		●

POWER TRAIN	STD	OPT
Tires		
23.5 R25, L3	●	
23.5 - 25, 20PR, L3		●
23.5 - 25, 20PR, L5		●
23.5 R25, XHA2		●
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, 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	●	
Fenders (front / rear)	●	
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	●	
Mudguards	●	
Wheel chock	●	
License plate & lamp	●	
Hi-Mate remote management system		
Mobile	●	
Satellite		●
Rearview camera	●	
SAFETY	STD	OPT
Beacon light, rotating		●
Fire extinguisher		●
Operator suit		●

* 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.

SPECIFICATIONS

HL960

Tier 4 Final Engine



*Photo may include optional equipment.

Net Power | 222 HP (166 kW) / 2,200 rpm
Operating Weight | 19 425 kg / 42,830 lbs
Standard Bucket | 3.3 m³ / 4.3 yd³



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PLEASE CONTACT

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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 in ³)
Compression ratio	17.3 : 1
Air cleaner	Dry, 2-stage dual elements
Alternator	Denso (24V, 95 amp)
Battery	2 x 12V, 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		
		1st	2nd	3rd	4th	5th
Forward	1st	6.4 (4.0)	12.1 (7.5)	6.7 (4.2)	11.8 (7.3)	18.1 (11.2)
	2nd	12.1 (7.5)	24.3 (15.1)	11.8 (7.3)	28.2 (17.5)	40.0 (24.9)
	3rd	24.3 (15.1)	39.5 (24.5)	18.1 (11.2)	39.5 (24.5)	40.0 (24.9)
	4th	39.5 (24.5)	28.2 (17.5)	28.2 (17.5)	28.2 (17.5)	28.2 (17.5)
	5th	40.0 (24.9)	40.0 (24.9)	40.0 (24.9)	40.0 (24.9)	40.0 (24.9)
Reverse	1st	6.7 (4.2)	12.7 (7.9)	7.1 (4.4)	12.4 (7.7)	29.4 (18.5)
	2nd	12.7 (7.9)	25.6 (15.9)	12.4 (7.7)	25.6 (15.9)	29.4 (18.5)
	3rd	25.6 (15.9)	29.4 (18.5)	29.4 (18.5)	29.4 (18.5)	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	Conventional
Reduction ratio	24.666

OVERVIEW				
Description	UNIT	HL960	HL960XT	
Operating weight	kg (lb)	19 425 (42,830)	20 225 (41,940)	
Bucket capacity	Heaped	m ³ (yd ³)	3.3 (4.0)	3.3 (4.0)
	Struck	m ³ (yd ³)	2.9 (3.8)	2.9 (3.8)
Breakout force—bucket	kg (lb)	16 670 (35,160)	16 430 (34,500)	
Tipping load	Straight	kg (lb)	15 580 (34,350)	14 180 (31,263)
	Full turn	kg (lb)	13 630 (30,047)	12 180 (26,850)

TIRES	
Type	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 20.5-25, 16PR, L3

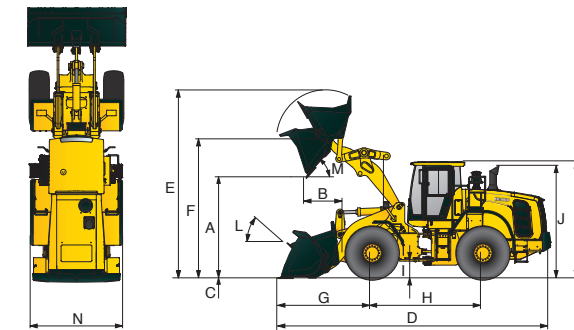
HYDRAULIC SYSTEM	
Type	Load-sensing hydraulic system
Pump	Variable-displacement piston pump, 246 lpm (65 gpm)
Control valve	2-spool (bucket, boom) 3-spool (bucket, boom, aux)
System pressure	280 kgf/cm ² (3,983 psi)
Lift circuit	Valve has four functions: raise, hold, lower and float Can adjust automatic 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: Lift: 2-140 mm (5.5") x 765 mm (30.1") Tilt: 1-160 mm (6.3") x 530 mm (20.9") Tilt: 1-180 mm (7.1") x 515 mm (20.3")
	HL960 HL960XT
Cycle times	Raise: 5.9 sec 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	
Type	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 l (7.1 gal)
Cooling system	42 l (11.1 gal)
Crankcase	18 l (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 l (29.1 gal)
Hydraulic system (including tank)	200 l (52.8 gal)

DIMENSIONS			
All dimensions are approximate.			



Description	UNIT	HL960	HL960XT	
Bucket type	General purpose bolt-on cutting edge			
A. Dumping clearance at max. height and 45° dump angle	mm (ft-in)	2 935 (9' 7.5")	3 365 (11' 0.5")	
B. Reach	Full lift	mm (ft-in)	1 295 (4' 3.0")	1 390 (4' 6.7")
	2 134 mm height (7 feet)	mm (ft-in)	1 825 (5' 11.9")	2 230 (7' 3.8")
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' 6.3")
	at carry	mm (ft-in)	8 030 (26' 4.1")	8 530 (27' 11.8")

HL960 / DENSITY OF OPERATING MATERIALS		Material Density	
Loose material			
Earth/clay		1.5~1.7 tons / m ³ (2,528~2,865 lbs / yd ³)	
Sand and gravel		1.5~1.7 tons / m ³ (2,528~2,865 lbs / yd ³)	
Aggregate	25~76 mm (1" to 3")	1.6~1.7 tons / m ³ (2,697~2,865 lbs / yd ³)	
	19 mm (3/4") and larger	1.8 tons / m ³ (3,034 lbs / yd ³)	

HL960 / DENSITY OF OPERATING MATERIALS				
Lift arm	Bucket	Type	Struck	Heaped
Standard lift arm	General purpose	Cutting edge	3.0 m ³ (3.9 yd ³)	3.4 m ³ (4.4 yd ³)
		Cutting edge	2.9 m ³ (3.8 yd ³)	3.3 m ³ (4.3 yd ³)
		1-piece bolt-on tooth	2.8 m ³ (3.7 yd ³)	3.2 m ³ (4.2 yd ³)
		2-piece bolt-on tooth	2.8 m ³ (3.7 yd ³)	3.2 m ³ (4.2 yd ³)
		1-piece bolt-on tooth	2.7 m ³ (3.6 yd ³)	3.1 m ³ (4.0 yd ³)
		2-piece bolt-on tooth	2.7 m ³ (3.6 yd ³)	3.1 m ³ (4.0 yd ³)
		1-piece bolt-on tooth with segment	2.9 m ³ (3.8 yd ³)	3.3 m ³ (4.3 yd ³)
		2-piece bolt-on tooth with segment	2.9 m ³ (3.8 yd ³)	3.3 m ³ (4.3 yd ³)
		Cutting edge	3.0 m ³ (3.9 yd ³)	3.4 m ³ (4.4 yd ³)
		Cutting edge	2.9 m ³ (3.8 yd ³)	3.3 m ³ (4.3 yd ³)
High lift arm (XTD)	General purpose	1-piece bolt-on tooth	2.8 m ³ (3.7 yd ³)	3.2 m ³ (4.2 yd ³)
		2-piece bolt-on tooth	2.8 m ³ (3.7 yd ³)	3.2 m ³ (4.2 yd ³)
		1-piece bolt-on tooth	2.7 m ³ (3.6 yd ³)	3.1 m ³ (4.0 yd ³)
		2-piece bolt-on tooth	2.7 m ³ (3.6 yd ³)	3.1 m ³ (4.0 yd ³)
		1-piece bolt-on tooth with segment	2.9 m ³ (3.8 yd ³)	3.3 m ³ (4.3 yd ³)
		2-piece bolt-on tooth with segment	2.9 m ³ (3.8 yd ³)	3.3 m ³ (4.3 yd ³)