

Net Power

222 HP (166kW) / 2,200 rpm | 18,800 kg / 41,450 lbs

Operating Weight

Standard Bucket

3.3m³/4.3yd³



SPECIFICATIONS HL960

ENGINE	
Maker/Model	CUMMINS / QSB6.7
Туре	Watercooled, 4-cycle, turbocharged
	charge aircooled, direct injection,
	electronically controlled diesel engine
Gross power	225 HP (168 kW) / 2,200rpm
Net power	222 HP (166 kW) / 2,200rpm
Maximum torque	106 kg.m (770lb·ft) / 1,500rpm
No. of cylinders	6
Bore x Stroke	107 mm (4.21") x 124mm (4.88")
Displacement	6.7g (408 cu in)
Compression ratio	17.3 : 1
Air cleaner	Dry, Two 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-Elements, 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 lock up 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	Oscillation ±11° center pin-loaded
Hub reduction	Planetary reduction at wheel end
Differential	Conventional
Reduction ratio	24.666

OVERVIEW	1			
Description		UNIT	HL960	HL960XT
Operating w	eight	kg (lb)	18,800	19,600
			(41,450)	(40,560)
Bucket	Heaped	m³ (yd³)	3.3 (4.0)	3.3 (4.0)
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)	14,100	12,700
			(31,085)	(27,998)
	Full turn	kg (lb)	12,350	10,900
			(27,227)	(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
	20.5-25, 16PR, L3

HVDBALILIC SVSTEM		
HYDRAULIC SYSTEM		
Туре	Load sensing hydraulic system	
Pump	Variable displacement piston pump,	
	246 lpm (65 gpm)	
Control valve	2 Spool (Bucket, Boom)	
Control valve	3 Spool (Bucket, Boom, Aux)	
System pressure	280 kgf/cm ² (3983 psi)	
Lift Circuit	Valve has four functions ;	
	raise, hold, lower and float.	
	Can adjust automatic kickout 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")	
HL960	Tilt: 1-160 mm (6.3") x 530 mm (20.9")	
HL960XT	Tilt: 1-180 mm (7.1") x 515 mm (20.3")	
Cycle Time	Raise: 5.9 sec	
	Dump: 1.3 sec	
	Lower: 3.1 sec	
	Total: 10.3 sec	

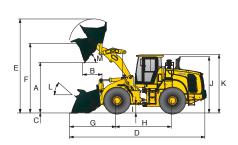
BRAKES	
Service Brakes	Hydraulically actuated, wet disc
	brakes actuate all 4 wheels
	Independent axle-by-axle system
	Self adjusting & wheel speed brake
Parking Brake	Spring-applied, hydraulically
	released brake
Emergency Brake	When brake oil pressure drops,
	indicator light alerts operator and park-
	ing 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 (3556 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 liters (79.3 Gal)		
DEF tank	27 liters (7.1 Gal)		
Cooling system	42 liters (11.1 Gal)		
Crankcase	18 liters (4.8 Gal)		
Transmission	33 liters (8.7 Gal)		
Front axle	35 liters (9.2 Gal)		
Rear axle	35 liters (9.2 Gal)		
Hydraulic tank	110 liters (29.1 Gal)		
Hydraulic system	200 liters (52.8 Gal)		
(including tank)			

DIMENSIONS
All dimensions are approximate.





Description		UNIT	HL960	HL960XT
Bucket Type		General p	urpose bolt-on	cutting edge
A. Dumping clearance at		mm	2,935	3,365
max. hei	ght and 45°	(ft-in)	(9' 7.5")	(11'0.5")
dump an	gle			
B. Reach	Full lift	mm	1,295	1,390
		(ft-in)	(4' 3.0")	(4' 6.7")
	7ft height	mm	1,825	2,230
		(ft-in)	(5' 11.9")	(7' 3.8")
C. Digging	C. Digging depth		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. Overallheight		mm	5,640	6,070
(fully raise	ed)	(ft-in)	(18' 6.0")	(19' 11.0")
F. Bucket piv	ot 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 cle	earance	mm	410	410
		(ft-in)	(1' 4.1")	(1' 4.1")
J. Height ove	er exhaust	mm	3,360	3,360
		(ft-in)	(11' 0.3")	(11' 0.3")
K. Height ov	K. Height over cab		3,450	3,450
		(ft-in)	(11' 3.8")	(11' 3.8")
L. Roll-back	on ground	deg	42	42
angle	at carry	deg	47	48
M. Dump ar	ngle	deg	50	50
Clearance ci	Clearance circle (Tread)		11,225	11,225
			(36' 9.9")	(36' 9.9")
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	OF OPERATING MATERIALS		
Loose Material		Material Density	
Earth/Clay		1.5~1.7 tons / m³ (2528~2865 lbs / yd³)	
Sand and Gravel		1.5~1.7 tons / m³ (2528~2865 lbs / yd³)	
Aggregate	25~76mm (1" to 3 in)	1.6~1.7 tons / m³ (2697~2865 lbs / yd³)	
	19mm (3 in) and larger	1.8 tons / m ³ (3034 lbs / yd ³)	

		PERATING MATERIALS	CL - 1 (1000()	11
Lift arm	Bucket	Туре	Struck (100%)	Heaped (115%)
Standard lift arm		Cutting edge	3.4 m³ (4.4 yd³)	3.9 m³ (5.1 yd³)
		Cutting edge	3.3 m ³ (4.3 yd ³)	3.8 m³ (5.0 yd³)
	General Purpose	1-Bolt on tooth	3.2 m³ (4.2 yd³)	3.7 m³ (4.8 yd³)
		2-Bolt on tooth	3.2 m ³ (4.2 yd ³)	3.7m³ (4.8 yd³)
		1-Bolt on tooth	$3.1 \text{ m}^3 (4.0 \text{ yd}^3)$	3.6m³ (4.7 yd³)
		2-Bolt on tooth	3.1 m³ (4.0 yd³)	3.6m³ (4.7 yd³)
		1-Bolt on tooth & segment edge	3.3 m³ (4.3 yd³)	3.8 m³ (5.0 yd³)
		2-Bolt on tooth & segment edge	3.3 m ³ (4.3 yd ³)	3.8 m³ (5.0 yd³)
High lift arm (XTD)	General Purpose	Cutting edge	3.4 m³ (4.4 yd³)	3.9 m³ (5.1 yd³)
		Cutting edge	3.3 m ³ (4.3 yd ³)	3.8 m³ (5.0 yd³)
		1-Bolt on tooth	3.2 m ³ (4.2 yd ³)	3.7 m ³ (4.8 yd ³)
		2-Bolt on tooth	3.2 m ³ (4.2 yd ³)	3.7 m ³ (4.8 yd ³)
		1-Bolt on tooth	3.1 m ³ (4.0 yd ³)	3.6 m³ (4.7 yd³)
		2-Bolt on tooth	3.1 m³ (4.0 yd³)	3.6 m³ (4.7 yd³)
		1-Bolt on tooth & segment edge	3.3 m³ (4.3 yd³)	3.8 m³ (5.0 yd³)
		2-Bolt on tooth & segment edge	3.3 m³ (4.3 yd³)	3.8 m³ (5.0 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, back-up	•	
Batteries, PT		
900 CCA, 12V, (2)	•	
Gauges		
Engine coolant temperature	•	
Fuel level	•	
Speedometer Transmission will be seen a seen and the seen	•	
Transmission oil temperature Horn, electric	•	
Indicator lights		
T/C 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)		
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 (2xenon) 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		•
SCR cleaning / inhibit	•	
Secondary steering test Pilot cut off	•	•
Membrane switches in monitor		
Main light	•	
Work light	•	
Auto grease		•
Quick coupler		•
Ride control	•	
Work load	•	
Beacon lamp		•
Rear wiper Mirror heat	•	
Auto position	•	
	_	

		_
CAB & INTERIOR	STD	OPT
Cab (sound suppressed and pressurized)	with	
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		
2" static seat belt & adjustable mechanical		_
suspension (heated)		•
3" static seat belt & adjustable adjustable		•
mechanical suspension 2" 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	•	
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
	שוני	OFI
Brakes : Service, enclosed wet-disc 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		•
Hyd. lock differential (front)		•
Front axle cooling system		•

POWER TRAIN	STD	ОРТ
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	ОРТ
Boom kickout, 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	•	
Tool kit		•
Tooth, 1 piece, bolt-on type		•
Tooth, 2 pieces, bolt-on type		•
Cutting edge, bolt-on type		•
Pallet forks		•
Guards		
Crankcase		•
Transmission		•
Mud guards		•
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 v Hyundai dealer for more information. The		

- 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.



6100 ATLANTIC BOULEVARD NORCROSS GA 30071 U.S.A TEL: (1) 678-823-7802 FAX: (1) 678-823-7778

PLEASE CONTACT