

HD

HYUNDAI
CONSTRUCTION EQUIPMENT

HL960A HD SPECIFICATIONS

Powered By Cummins Performance Series Engine



*Photo may include optional equipment.

Net Power
222 hp (166 kW)
at 2,200 rpm

Operating Weight
42,880 lb (19,450 kg) –
44,710 lb (20,280 kg)

Bucket Capacity
4.32 yd³ (3.3 m³)

building a
comfortable
tomorrow

HL960A HD SPECIFICATIONS

ENGINE	
Model	CUMMINS B6.7
Emission certification	Tier 4 Final
Type	6-cylinder diesel engine with no manual regeneration.
Gross Power (SAE J1995)	225 hp (168 kW) at 2,200 rpm
Net Power (SAE J1349)	222 hp (166 kW) at 2,200 rpm
Max. Power	251 hp (188 kW) at 1,900 rpm
Peak Gross Torque (SAE J1995)	875 lb-ft (1,186 Nm) at 1,300 rpm
Displacement	408 in ³ (6.7 ℓ)
Compression Ratio	17.3 : 1
Alternator	24 V, 95 A
Battery	2 × 12 V × 160 Ah
Starting motor	24 V, 5.5 kW

TRANSMISSION			
Travel speed		4-Speed transmission	5-speed transmission with lockup clutch
Forward gears	1st	3.9 (6.3)	4.1 (6.7)
	2nd	7.5 (12.1)	7.3 (11.9)
	3rd	15.2 (24.5)	11.2 (18.2)
	4th	24.6 (39.6)	17.5 (28.4)
	5th	–	24.8 (40.0)
Reverse gears	1st	4.2 (6.8)	4.4 (7.1)
	2nd	7.9 (12.8)	7.7 (12.5)
	3rd	15.9 (25.7)	18.5 (29.9)

* This is the maximum travel speed of a standard machine with unfilled bucket.

AXLES	
Drive System	Four-wheel drive
Mount	Rigid front axle and oscillating rear axle
Rear Axle Oscillation	± 12° degrees
Hub Reduction	Planetary reduction at wheel end
Differential	Conventional
Reduction Ratio	24.667

HYDRAULIC SYSTEM			
Type	Load sensing hydraulic system		
IMPLEMENT SYSTEM			
Maximum Pump Output	gpm (ℓ/min)	63.1 (239) at 2,130 rpm	
Maximum Operating Pressure	psi (kPa)	4,061 (28,000)	
CYLINDERS			
No. of Cylinders. Bore × Stroke	Type	double acting	
	Lift (2)	in (mm)	5.5" × 30.1" (140 × 765)
	Tilt (1)		6.3" × 20.9" (160 × 530)
Hydraulic Cycle Time with Rated Payload	Raise from carry position	sec	5.9
	Dump, at maximum raise		1.5
	Lower, empty, float down		3.5
	Total		10.9

CABIN	
ROPS / FOPS Cabin Meets ISO 3471 and ISO 3449 Level II Standards	

OVERVIEW		HL960A HD	HL960A HDXT
Bucket Capacity, Heaped	yd ³ (m ³)	4.32 (3.3)	
Bucket Breakout Force	lbf (kgf)	36,750 (16,670)	36,220 (16,430)
Tipping Load	Straight	31,750 (14,400)	28,775 (13,050)
Operating Weight			
	lb (kg)	42,880 (19,450)	44,710 (20,280)

TIRES	
Type	Tubeless, loader design tires
Standard	Triangle 23.5 R25, ★★, L3
Options Include	Michelin 23.5 R25, ★, XHA2

BRAKES	
Service Brakes	Hydraulically actuated wet disk brakes actuate all 4 wheels independently. 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	
Flow	gpm (ℓ/min)	39.2 (148.5)
System Pressure	psi (kPa)	3,046 (21,000)
No. of Cylinders – Bore × Stroke	Type	Double acting
	in (mm)	2 – 3.15" × 16.7" (80 × 424)
Steering Angle	40° to both right and left	

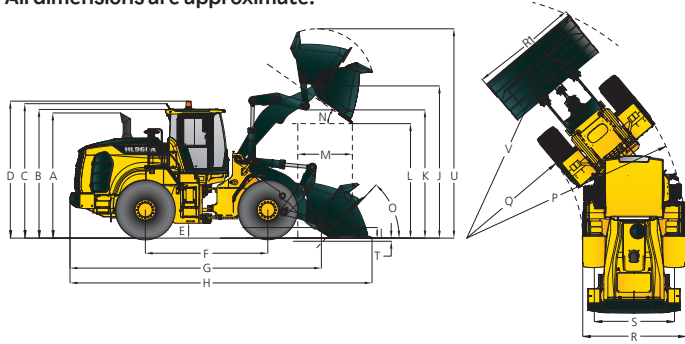
SERVICE REFILL CAPACITIES	
Fuel Tank	68.6 (260.0)
DEF Tank	9.8 (37.1)
Cooling System	11.1 (42.0)
Crankcase	4.7 (18.0)
Transmission	gal (ℓ)
Front Axle	9.2 (35.0)
Rear Axle	9.2 (35.0)
Hydraulic Tank	29.0 (110.0)
Hydraulic System (Including Tank)	52.8 (200.0)

CAB NOISE LEVEL	
Guaranteed noise levels presented below can differ depending on a range of factors, such as operating conditions, cooling fan speed, engine type, and so forth. Hearing protection may be necessary if an operator is working in an improperly maintained cabin or exposed to a noisy environment by leaving doors and/or windows open.	
With cooling fan speed at maximum value:	
Operator sound pressure level (ISO 6396:2008)	70 dB(A)
Exterior sound power level (ISO 6395:2008)	105 dB(A)

* Distance of 49.2 ft (15 m), moving forward in second gear ratio.

HL960A^{HD} DIMENSIONS

All dimensions are approximate.



Unit: ft in (mm)

DESCRIPTION	HL960A HD	HL960A HDXT
A Height to Top of Exhaust Pipe	10' 11" (3,340)	
B Height to Top of Cabin	11' 3" (3,450)	
C Height to Top of Product Link Antenna	11' 6" (3,505)	
D Height to Top of Warning Beacon	11' 9" (3,580)	
E Ground Clearance	1' 4" (410)	
F Wheelbase	10' 10" (3,300)	
G Overall Length (Without Bucket)	22' 6" (6,870)	24' 4" (7,425)
H Shipping Length (With Bucket Level on Ground)	26' 8" (8,140)	28' 6" (8,695)

Unit: ft in (mm)

DESCRIPTION	HL960A HD	HL960A HDXT
I Hinge Pin Height at Carry Position	1' 6" (465)	2' (600)
J Hinge Pin Height at Maximum Lift	13' 6" (4,105)	14' 11" (4,535)
K Lift Arm Clearance at Maximum Lift	11' 4" (3,455)	12' 9" (3,885)
L Dump Clearance at Maximum Lift and 45° Discharge	9' 8" (2,935)	11' (3,365)
M Reach at Maximum Lift and 45° Discharge	4' 2" (1,285)	4' 6" (1,380)
N Dump Angle at Maximum Lift and Dump (on Stops)	50	50
O Roll Back Angle	Ground	42
	Carry	47
P Clearance Circle (Diameter) to Outside of Tires		39' 6" (12,060)
Q Clearance Circle (Diameter) to Inside of Tires		21' 1" (6,430)
R Width Over Tires (Unloaded)		9' 1" (2,770)
R1 Overall Width (with bucket)		9' 6" (2,896)
S Tread Width		7' 1" (2,160)

OPERATING SPECIFICATIONS WITH BUCKETS

Linkage Bucket Type	Edge Type		Standard Linkage General Purpose - Pin On				General Purpose - Hook On	High Lift Linkage Change
			Bolt-On Cutting Edges	1-piece Tooth	2-piece Tooth	2-piece Tooth & Segment	Bolt-On Cutting Edges	
Capacity-Rated	yd ³		4.3 (3.3)	4.2 (3.2)	4.2 (3.2)	4.3 (3.3)	4.3 (3.3)	-
Capacity-Rated at 110% Fill Factor	m ³		4.7 (3.6)	4.6 (3.5)	4.6 (3.5)	4.7 (3.6)	4.7 (3.6)	-
Width			9' 6" (2,900)	9' 8" (2,950)	9' 9" (2,970)	9' 9" (2,970)	9' 6" (2,900)	-
Dump Clearance at Maximum Lift and 45° Discharge			9' 7" (2,935)	9' 3" (2,810)	9' 2" (2,775)	9' 2" (2,775)	9' 1" (2,755)	1' 5" (430)
Reach at Maximum Lift and 45° Discharge	ft in		4' 3" (1,285)	4' 6" (1,370)	4' 7" (1,390)	4' 7" (1,390)	4' 10" (1,465)	4" (95)
T Digging Depth	mm		3.5" (90)	4.5" (115)	4.9" (125)	4.9" (125)	3.5" (90)	2" (55)
H Shipping Length (with Bucket)			26' 8" (8,140)	27' 2" (8,290)	27' 4" (8,330)	27' 4" (8,330)	27' 7" (8,395)	1' 10" (555)
U Overall Height with Bucket at Maximum Lift			18' 6" (5,640)	18' 6" (5,640)	18' 6" (5,640)	18' 6" (5,640)	19' 1" (5,820)	1' 5" (430)
V Loader Clearance Circle			44" (13,410)	44' 6" (13,570)	44' 8" (13,620)	44' 8" (13,620)	44' 6" (13,570)	1' 6" (450)
Static Tipping Load, Straight (No Tire Deflection)			31,750 (14,400)	32,190 (14,600)	32,190 (14,600)	31,635 (14,350)	29,035 (13,170)	-2,975 (-1,350)
Static Tipping Load, Articulated (No Tire Deflection)	lb		27,560 (12,500)	27,930 (12,670)	27,930 (12,670)	27,450 (12,450)	25,200 (11,430)	-2,975 (-1,350)
Breakout Force	(kg)		36,750 (16,670)	39,030 (17,705)	39,030 (17,705)	36,750 (16,670)	30,580 (13,870)	-530 (-240)

BUCKET SELECTION CHART

Type	yd ³ (m ³)	Material Density, ton/yd ³ (t/m ³)												
		0.93 (1.1)	1.01 (1.2)	1.1 (1.3)	1.18 (1.4)	1.26 (1.5)	1.35 (1.6)	1.43 (1.7)	1.52 (1.8)	1.6 (1.9)	1.69 (2.0)	1.77 (2.1)	1.85 (2.2)	1.94 (2.3)
Standard lift arm—General Purpose														
Cutting Edge	4.32 (3.3)				4.97 yd ³ (3.8 m ³)								4.05 yd ³ (3.1 m ³)	
1-Bolt-on Tooth	4.19 (3.2)				4.84 yd ³ (3.7 m ³)								3.92 yd ³ (3.0 m ³)	
2-Bolt-on Tooth	4.19 (3.2)				4.84 yd ³ (3.7 m ³)								3.92 yd ³ (3.0 m ³)	
2-Bolt-on Tooth & Segment Edge	4.32 (3.3)				4.97 yd ³ (3.8 m ³)								4.05 yd ³ (3.1 m ³)	
Cutting Edge Q/C	4.32 (3.3)				4.97 yd ³ (3.8 m ³)								4.05 yd ³ (3.1 m ³)	
High lift arm—General Purpose														
Cutting Edge	4.32 (3.3)		4.97 yd ³ (3.8 m ³)										4.05 yd ³ (3.1 m ³)	
1-Bolt-on Tooth	4.19 (3.2)		4.84 yd ³ (3.7 m ³)										3.92 yd ³ (3.0 m ³)	
2-Bolt-on Tooth	4.19 (3.2)		4.84 yd ³ (3.7 m ³)										3.0 m ³ (3.92 yd ³)	
2-Bolt-on Tooth & Segment Edge	4.32 (3.3)		4.97 yd ³ (3.8 m ³)										4.05 yd ³ (3.1 m ³)	
Cutting Edge Q/C	4.32 (3.3)	4.97 yd ³ (3.8 m ³)											4.05 yd ³ (3.1 m ³)	

115% 100% 95%

ENGINE	
CUMMINS, B6.7	
3-stage air precleaner	●
Alternator, 95 A	●
Fuel warmer	●
Engine oil level dipstick gauge	●
Fuel / water separator	●
VGT (Variable Geometry Turbo)	●
CLEAN EMISSION MODULE	
DOC, DPF and SCR	●
Tier 4 Final	●
EGR Free	●
COOLING SYSTEM	
Antifreeze	●
Auto-reversing fan (adjustable time/ interval frequencies) with manual override	●
Coolant-level sight gauge	●
Fan guard	●
Wide-fin radiator	●
POWER TRAIN	
TRANSMISSION	
Transmission F4/R3, computer controlled, electronic soft shift, auto-shift and kickdown features included	●
Transmission F5/R3 with lockup clutch	○
Wide-fin transmission oil cooler	●
AXLE	
Front and rear axle coolers	●
Front differential lock / Rear conventional Axle	●
Front differential lock / Rear LSD Axle	○
BRAKE	
Parking brake	●
Service brake (enclosed wet-disc)	●
TIRES	
Triangle 23.5 R25, ★★, L3	●
Michelin 23.5 R25, ★, XHA	○
HYDRAULIC SYSTEM	
Diagnostic pressure taps	●
Hyundai Bio Hydraulic Oil (VG46)	○
Hydraulic oil level sight gauge	●
Hydraulic oil VG32	○
Hydraulic oil VG46	●
Wide-fin hydraulic oil cooler	●
HYDRAULIC CONTROL	
Fingertip	●
Joystick	○
ELECTRO-HYDRAULIC CONTROL	
Boom kickout, automatic	●
Bucket positioner, automatic	●
Extra piping for auxiliary function	●
Fingertip	●
Joystick	○
Quick coupler piping	○
Ride control system	●
CABIN & INTERIOR	
ALARMS, AUDIBLE AND VISUAL	
Air filter clogging	●
Battery voltage	●
Brake oil pressure	●
DEF low level	●
Engine coolant level	●
Engine coolant temperature	●
Engine oil pressure	●
Fuel level	●
Hydraulic oil temperature	●
Parking brake	●
Service brake oil pressure	●
Seatbelt ON/OFF	●
Transmission error	●
Transmission oil temperature	●

CABIN & INTERIOR	
GAUGES	
Diesel Exhaust Fluid (DEF) level	●
Engine coolant temperature	●
Fuel level	●
Horn, electric	●
Speedometer	●
Transmission oil temperature	●
INDICATOR LIGHTS	
Clutch cutoff	●
Differential lock	●
Engine auto stop	●
FNR	●
High beam	●
Parking brake	●
Pilot cut off	●
Ride control	●
Seatbelt ON/OFF	●
Turning light	●
LCD DISPLAY	
Clock and fault code	●
DEF level	●
DEF low level	●
Engine rpm	●
Horn, electric	●
Job time and distance	●
Operating hour counter	●
Transmission gear range	●
BATTERIES	
1,000 CCA, 12 V, 2 PCS	●
LIGHTING SYSTEM	
Brake lights (counterweight)	●
LED dome light	●
2 headlights on front tower	●
2 headlights (LED) on front tower	○
2 stop and tail lights	●
4 turn signals	●
4 working lights 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	●
2 working lights (LED) on grille	○
SWITCHES	
Battery master switch	●
Differential Lock	●
Emergency steering	○
FNR shifter	●
Hazard	●
Parking	●
Pilot cutoff	●
SYSTEM MEMORY SETTINGS	
Autolube, integrated in secondary display	○
Auto position	●
Beacon light	○
Fine modulation	●
Main light	●
Mirror heat	●
Quick coupler	●
Rear wiper	●
Ride control	●
Work light	●
Work load	●
IGNITION	
Key	●
Push start button	○
CABIN (SOUND SUPPRESSED)	
24 V to 12 V DC converter, 20 A	●
Coat hook	●
Magazine pocket	●
One door cab	●
Radio / USB player	●

CABIN & INTERIOR	
CABIN (SOUND SUPPRESSED)	
Roller type sunshade (front window)	●
ROPS / FOPS cab	●
Rubber floor mat	●
Steering column, tilt and telescopic	●
Steering wheel with knob	●
Tinted safety glass	●
Wrist rest	●
DOOR	
Door and cab locks, one key	●
Doors, service access (locking)	●
Doors, service access (remote control)	○
AUTOMATIC CLIMATE CONTROL	
Air conditioner and heater	●
Defroster	●
Intermittent wiper and washer, front and rear	●
SEAT	
Adjustable, heated, air-suspension seat with 3" retractable seatbelt	●
PERSONAL STORAGE SPACE	
Console box	●
Holder, can and cup	●
PEDALS	
Accelerator pedal without ECO switch	●
One accelerator pedal	●
One brake pedal	●
Dual-brake pedal	○
SAFETY	
Alarm, backup	●
Boom safety lock	○
Emergency steering	○
Emergency stop bar	●
Fire extinguisher	○
AAVM (All Around View Monitoring)	○
IMOD (Intelligent Moving Object Detection)	○
RADAR + Secondary Monitor	○
OTHERS	
2nd monitor	○
3-spool MCV	●
Auto engine shut down	●
Auto grease system	○
Articulation locking bar	●
ISO quick coupler	●
Heavy counterweight	●
LED beacon lamp	○
License plate and 10 W LED lamp	○
Lift and tie-down hooks	●
Loader linkage, sealed	●
Sun shade on rear window of cabin	○
Vandalism protection caplocks	●
Wheel chocks	○
SAFETY	
Handrails	●
Ladders	●
Platforms	●
Steps	●
TELEMATICS	
ECD (Engine Connected Diagnostics)	●
Hi MATE—Mobile (4G)	●
Hi MATE—Satellite	○
GUARDS	
Belly-pan guard	○
Crankcase	●
Fenders (front)	●
Fenders (rear)	○
Transmission	●
Cabin front and rear guard	●
Rear grille guard	●
Headlight and tail light guard	●
Axle seal guard	●
Bucket cylinder rod guard	●

* 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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