SPECIFICATIONS HL960A

Powered By Cummins Performance Series Engine

1.160A



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

 Operating Weight
 B

 19,831 kg (43,720 lb) 3.

 20,031 kg (44,160 lb)
 3.

Bucket Capacity 3.3 m³ (4.3 yd³)



SPECIFICATIONS HL960A

ENGINE			
Maker / Model	CUMMINS / B6.7		
Туре	Tier 4F/ Stage V Emission Certified, 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 N·m) at 1,300 rpm		
Displacement	6.7 L (408 cu in)		
*Stage V & Tier 4 Final Certified			

TRANSMISSION

Travel Speed, km/h (mph)		4 Speed T/M	5 Speed T/M with lock up clutch	
	1st	6.4 km/h (3.9 mph)	6.7 km/h (4.1 mph)	
	2nd	12.1 km/h (7.5 mph)	11.8 km/h (7.3 mph)	
Forward	3rd	24.5 km/h (15.2 mph)	18.2 km/h (11.2 mph)	
	4th	39.0 km/h (24.2 mph)	28.4 km/h(17.5 mph)	
	5th	-	40.0 km/h (24.8 mph)	
	1st	6.8 km/h (4.2 mph)	7.1 km/h (4.4 mph)	
Reverse	2nd	12.8 km/h (7.9 mph)	12.5 km/h (7.7 mph)	
	3rd	25.7 km/h (15.9 mph)	29.9 km/h(18.5 mph)	

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

AXLES

Drive System	Four-wheel drive system	
Mount Rigid front axle and oscillating rear axle		
Rear Axle Oscillation	Oscillating \pm 12 $^{\circ}$ degrees	
Hub Reduction	Planetary reduction at wheel end	
Differential	Conventional	
Reduction Ratio	24.667	

HYDRAULIC SYSTEM			
Туре	Load sensing hydraulic system		
Implement System			
Maximum Pump Output	239 ℓ /min (63.1 gal/m	in) at 2,130 rpm	
Maximum Operating Pressure	28,000 kPa (4,061 ps	si)	
	Raise from Carry Posit	ion : 5.9 Sec.	
Hydraulic Cycle Time	Dump, at maximum ra	ise : 1.5 Sec.	
with Rated Payload	Lower, empty, float down : 3.5 Sec.		
	Total : 10.9 Sec.		
	Type : double acting		
	No. of cylinders-bore \times stroke		
Cylinder	Lift	2-140 × 765 mm (2-5.5" × 30.1")	
	HL960A Tilt	1-160 x 530 mm (1-6.3" × 20.9")	
	HL960A XT Tilt 1-160 × 530 mm (1-6.3" × 20.9")		

CABIN
ROPS / FOPS Cabin Meet ISO 3471 and ISO 3449

CADIN

OVERVIEW				
Description		HL960A	HL960A XT	
Operating Weight		19,831 kg (43,720 lb)	20,031 kg (44,160 lb)	
Bucket	Heaped	3.3 m ³ (4.3 yd ³)	3.3 m ³ (4.3 yd ³)	
Capacity	Struck	2.9 m ³ (3.8 yd ³)	2.9 m ³ (3.8 yd ³)	
Breakout Force-Bucket		16,670 kg (36,750 lb) 16,430 kg (36,220		
	Straight	15,792 kg (34,815 lb)	12,950 kg (28,550 lb)	
Tipping Load	Full Turn	13,712 kg (30,230 lb)	11,110 kg (24,495 lb)	
TIRES		_		
Туре		Tubeless, loader desig	n tires	
Standard		23.5 R25, ★★, L3		
		23.5 R25, ★, XHA		
Options Include		23.5-25, 20PR, L3		
	-	23.5-25, 20PR, L5		
		23.5-25, Solid tire		
BRAKES				
		Hydraulically actuated, wet disc brakes actuate all 4 wheels		
Service Brakes		independent axle-by-axle system.		
		Self adjusting & whee		
Parking Brake		Spring-applied, hydra	ulically	
		released brake		
Emergency Bra	ako	When brake oil press indicator light alerts o		
Effergency bra	ake	parking brake autom	•	
STEERING S	YSTEM			
Туре		÷ ,	atic articulated steering	
Pump		Variable displacement piston pump,		
System Pressur	20	148.5 l/min (39.2 gal/ 3,046 psi (21,000 kPa)		
Cylinder	e		m (3.15") × 424 mm (16.7")	
Steering Angle		40° to both right and left angle, respectively		
Features		Center-point frame articulation.		
reatures		Tilt and telescopic ste	ering column.	
	ILL CAPACITI			
Fuel Tank			s (68.6 US gal)	
Def Tank			rs (7.9 US gal)	
Cooling System 42.0 liters (11.1 US gal)				

Def Tank	30.0 liters (7.9 US gal)
Cooling System	42.0 liters (11.1 US gal)
Crankcase	18.0 liters (4.7 US gal)
Transmission	33.0 liters (8.7 US gal)
Front Axle	35.0 liters (9.2 US gal)
Rear Axle	35.0 liters (9.2 US gal)
Hydraulic Tank	110.0 liters (29.0 US gal)
Hydraulic System (Including Tank)	200.0 liters (52.8 US gal)

CAB NOISE LEVEL

Guaranteed noise level presented below can be differed depending on a range of factors such as operating condition, speed of a cooling fan, types of engine and so forth. Hearing protection shall be necessary if an operator is working in the 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)	68 dB(A)
Exterior sound power level (ISO 6395:2008)	105 dB(A)
* Distance of 15 m (49.2 ft), moving forward in second gear ra	itio.

HL960A DIMENSIONS

All dimensions are approximate.	- 20	· · · · · · · · · · · · · · · · · · ·
Description	HL960A	HL960A XT

А	Height to Top of Exhaust Pipe	3,340 (10' 11")	3,340 (10' 11")
В	Height to Top of Cabin	3,450 (11' 3")	3,450 (11' 3")
С	Height to Top of Product Link Antenna	3,505 (11' 6")	3,505 (11' 6")
D	Height to Top of Warning Beacon	3,580 (11' 9")	3,580 (11' 9")
Е	Ground Clearance	410 (1' 4")	410 (1' 4")
F	Wheelbase	3,300 (10' 10")	3,300 (10' 10")
G	Overall Length (Without Bucket)	6,870 (22' 6'')	7,425 (24' 4'')
Н	Shipping Length (With Bucket Level on Ground)	8,140 (26' 8'')	8,695 (28' 6")
Ι	Hinge Pin Height at Carry Position	465 (1' 6'')	600 (2')
J	Hinge Pin Height at Maximum Lift	4,105 (13' 6'')	4,535 (14' 11")

				Unit : mm (f i n)	
	Descr	iption	HL960A	HL960A XT	
к	Lift Arm Clearance at 3,455 (11' Maximum Lift		3,455 (11' 4")	3,885 (12' 9")	
L	Dump Clearance at Maximum Lift and 45° Discharge				
Μ	Reach at Maximum Lift and 45° Discharge		1,285 (4' 2")	1,380 (4' 6")	
N	Dump Angle at Maximum Lift and Dump (on Stops)		50	50	
0	Roll Back Angle	Ground	42	42	
0	Carry		47	48	
Ρ	Clearance Circle (Diameter) to Outside of Tires		12,060 (39' 6")	12,060 (39' 6")	
Q	Clearance Circle (Diameter) to Inside of Tires		6,430 (21' 1")	6,430 (21' 1")	
R	Width Over Tires (Unloaded)		2,770 (9' 1")	2,770 (9' 1")	
R1	Overall Width (with bucket)		2,160 (7' 1")	2,160 (7' 1")	
S	Tread Width		1,930 (6' 4")	1,930 (6' 4")	

HL960A OPERATING SPECIFICATIONS WITH BUCKETS

Linkage	Standard Linkage				General Purpose -	High Lift Linkage
Bucket Type	General Purpose - Pin On				Hook On	
Edge Type	Bolt-On Cutting Edges	1 Piece Tooth	2 Piece Tooth	2 Piece Tooth & Segment	Bolt-On Cutting Edges	Change
Capacity - Rated	3.3 m ³ (4.3 yd ³)	3.2 m ³ (4.2 yd ³)	3.2 m ³ (4.2 yd ³)	3.3 m ³ (4.3 yd ³)	3.3 m ³ (4.3 yd ³)	-
Capacity - Rated at 110% Fill Factor	3.6 m ³ (4.7 yd ³)	3.5 m ³ (4.6 yd ³)	3.5 m ³ (4.6 yd ³)	3.6 m ³ (4.7 yd ³)	3.6 m ³ (4.7 yd ³)	-
Width	2,900 mm (9' 6" ft/in)	2,950 mm (9' 8" ft/in)	2,970 mm (9' 9" ft/in)	2,970 mm (9' 9" ft/in)	2,900 mm (9' 6" ft/in)	-
Dump Clearance at Maximum	2,935 mm	2,810 mm	2,775 mm	2,775 mm	2,755 mm	430 mm
Lift and 45° Discharge	(9' 7" ft/in)	(9' 3" ft/in)	(9' 2" ft/in)	(9' 2" ft/in)	(9' 1" ft/in)	(1' 5" ft/in)
Reach at Maximum Lift and 45° Discharge	1,285 mm	1,370 mm	1,390 mm	1,390mm	1,465 mm	95 mm
	(4' 3" ft/in)	(4' 6" ft/in)	(4' 7" ft/in)	(4' 7" ft/in)	(4' 10" ft/in)	(4" ft/in)
Digging Depth	90 mm	115 mm	125 mm	125 mm	90 mm	55 mm
	(3.5" ft/in)	(4.5" ft/in)	(4.9" ft/in)	(4.9" ft/in)	(3.5" ft/in)	(2" ft/in)
Shipping Length (with Bucket)	8,140 mm	8,290 mm	8,330 mm	8,330 mm	8,395 mm	555 mm
	(26' 8" ft/in)	(27' 2" ft/in)	(27' 4" ft/in)	(27' 4" ft/in)	(27' 7" ft/in)	(1' 10" ft/in)
Overall Height with Bucket	5,640 mm	5,640 mm	5,640 mm	5,640 mm	5,820 mm	430 mm
at Maximum Lift	(18' 6" ft/in)	(18' 6" ft/in)	(18' 6" ft/in)	(18' 6" ft/in)	(19' 1"ft/in)	(1' 5" ft/in)
Loader Clearance Circle with	13,410 mm	13,570 mm	13,620 mm	13,620 mm	13,570 mm	450 mm
Bucket at Carry Position	(44' ft/in)	(44' 6" ft/in)	(44' 8" ft/in)	(44' 8" ft/in)	(44' 6" ft/in)	(1' 6" ft/in)
Static Tipping Load. Straight	14,300 kg	14,500 kg	14,500 kg	14,250 kg	13,080 kg	-1,350 kg
(No Tire Deflection)	(31,525 lb)	(31,965 lb)	(31,965 lb)	(31,415 lb)	(28,835 lb)	(-2,975 lb)
Static Tipping Load. Articulated	12,410 kg	12,580 kg	12,580 kg	12,360 kg	11,350 kg	-1,300 kg
(No Tire Deflection)	(27,360 lb)	(27,735 lb)	(27,735 lb)	(27,250 lb)	(25,020 lb)	(-2,865 lb)
Breakout Force	16,670 kg	17,705 kg	17,705 kg	16,670 kg	13,870 kg	-240 kg
	(36,750 lb)	(39,030 lb)	(39,030 lb)	(36,750 lb)	(30,580 lb)	(-530 lb)
Operating Weight*	19,200 kg	19,125 kg	19,125 kg	19,250 kg	19,590 kg	830 kg
	(42,330 lb)	(42,160 lb)	(42,160 lb)	(42,440 lb)	(43,190 lb)	(1,830 lb)

* All height and tire related dimensions are with standard 20.5 R25, \star \star , L3 tires.

HL960A BUCKET SELECTION CHART

Standard lift arm - General Purpos	se															
Time	····3 (· ···43)						Mate	rial Den	sity [ton	/ m³]]						
Туре	m ³ (yd ³)	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	
Cutting Edge	3.3 (4.32)				3.8 m³ (4	.97 yd³)						3.1 m ³ (4. 05 yd ³)			
1-Bolt on Tooth	3.2 (4.19)		3.7 m ³ (4.84 yd ³) 3.0 m ³ (3							3.92 yd³)						
2-Bolt on Tooth	3.2 (4.19)		3.7 m ³ (4.84 yd ³) 3.0 m ³							3.0 m ³ (3	3.92 yd³)					
2-Bolt on Tooth & Segment edge	3.3 (4.32)		3.8 m ³ (4.97 yd ³)						3.1 m ³ (1 m ³ (4. 05 yd ³)						
Cutting Edge Q/C	3.3 (4.32)	3.8 m ³ (4.97 yd ³) 3.1 m ³ (4.05 yd ³)														
High lift arm - General Purpose																
Туре	m ³ (yd ³)	Material Density [ton / m ³]														
		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	
Cutting Edge	3.3 (4.32)	3.8 m ³ (4.97 yd ³) 3.1 m ³ (4. 05 yd ³)														
1-Bolt on Tooth	3.2 (4.19)	3.7 m ³ (4.84 yd ³)									3.0 m ³ (3.92 yd ³)					
2-Bolt on Tooth	3.2 (4.19)	3.7 m ³ (4.84 yd ³)								3.0 m ³ (3.92 yd ³)						
2-Bolt on Tooth & Segment Edge	3.3 (4.32)	3.8 m ³ (4.97 yd ³)								3.1 m ³	(4. 05 yd ³))				
Cutting Edge Q/C	3.3 (4.32)	3.8 m ³	(4.97 yd³)						3.1 m ³	(4. 05 yd³)					

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CAB & INTERIOR STD OPT ALARMS, AUDIBLE AND VISUAL Transmission oil temperature • GAUGES Diesel Exhaust Fluid (DEF) level • Engine coolant temperature • Fuel level • Horn, electric ٠ Speedometer • Transmission oil temperature . INDICATOR LIGHTS Clutch Cut Off • Differential Lock ٠ Engine auto stop • FNR • High beam • Parking brake • Pilot cut off • Ride control • Seat belt 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 -850CCA, 12V, 2PCS LIGHTING SYSTEM Brake lights(Counterweight) • LED dome light • 2 Head lights on front tower • 2 Head lights (LED) on front tower . 2 Stop and tail lights • 4 Turn signals • 2 Working lights on front roof 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 grill • 2 Working lights (LED) on grill . SWITCHES Battery master switch • Differential Lock • Emergency steering FNR shifter • Hazard • Parking • Pilot cut off • 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 • Push Start Button CAB (SOUND SUPPRESSED) 24V to 12V DC converter (20A) ٠ * M Coat hook ٠ Magazine pocket • One door cab •

CAB(SOUND SUPPRESSED)	STD	OPT
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		1
Door and cab locks, one key	•	
Doors, service access (Locking)	•	
Doors, service access (Remote control)		•
AUTOMATIC CLIMATE CONTROL		
Air conditioner & heater	•	
Defroster	•	
Intermittent wiper and washer, front		
and rear	•	
SEAT		
3" Retractable seat belt & adjustable		
air suspension (Heated)	•	
PERSONAL STORAGE SPACE		1
Console box	•	
Holder, can and cup	•	
PEDALS		
Accel pedal without ECO switch	•	
Dual-brake pedal		•
One acceletator pedal	•	
One brake pedal	•	
AFETY	STD	ΟΡΤ
Alarm, back-up		
Boom safety lock		
Emergency steering		
Emergency stop		•
	•	
Fire extinguisher		•
OBJECT DETECTION		
AAVM - All Around View Monitoring		•
IMOD (Intelligent Moving Object Detection	1)	•
RADAR + Secondary Mornitor		•
DTHERS	STD	OPT
2nd Monitor		•
3 Spool MCV	•	
5 speed T/M with lockup clutch		•
Air Compressor		•
Auto Engine Shut Down		
Auto Grease System		
Articulation Locking Bar	•	
Heavy Counterweight		
	•	•
		•
Hi-Mate, Satellite	•	
Hi-Mate, Satellite ISO Quick Coupler		•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp		•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp		
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp Lift and tie-down hooks	•	
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp Lift and tie-down hooks Loader linkage, sealed	•	
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp Lift and tie-down hooks	•	•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp Lift and tie-down hooks Loader linkage, sealed	•	•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp Lift and tie-down hooks Loader linkage, sealed Sun Shade on Rear Window of Cabin		•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp Lift and tie-down hooks Loader linkage, sealed Sun Shade on Rear Window of Cabin Vandalism protection caplocks		•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp Lift and tie-down hooks Loader linkage, sealed Sun Shade on Rear Window of Cabin Vandalism protection caplocks Wheel Chocks SAFETY		•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W LED Lamp Lift and tie-down hooks Loader linkage, sealed Sun Shade on Rear Window of Cabin Vandalism protection caplocks Wheel Chocks SAFETY Handrails		•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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		•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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	•	•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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		•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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	•	•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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	•	•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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	•	•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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 GUARDS	•	•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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 GUARDS Belly-Pan Guard	• • • • •	
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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 GUARDS Belly-Pan Guard Crankcase	• • • • •	•
Hi-Mate, Satellite ISO Quick Coupler LED Beacon Lamp License Plate & 10W 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 GUARDS Belly-Pan Guard Crankcase Fenders (Front)	• • • • •	• • • • •

PLEASE CONTACT

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