SPECIFICATIONS HL960A

Powered By Cummins Performance Series Engine

1.160A



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

 Operating Weight
 Buck

 19,831 kg (43,720 lb) 3.3 m

 20,031 kg (44,160 lb)
 3.4 m

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)				
Forward	2nd	12.1 km/h (7.5 mph)	11.8 km/h (7.3 mph)				
	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 hydrau	llic 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 psi)				
	Raise from Carry Position : 5.9 Sec.				
Hydraulic Cycle Time	Dump, at maximum raise : 1.5 Sec.				
with Rated Payload	Lower, empty, float down : 3.5 Sec.				
	Total : 10.9 Sec.				
	Type : double acting				
	No. of cylinders-bore $ imes$ stroke				
Culinder	Lift	2-140 × 765 mm (2-5.5" × 30.1")			
Cylinder	HL960A Tilt	1-160 x 530 mm (1-6.3" × 20.9")			
	HL960A XT Tilt 1-160 × 530 mi (1-6.3" × 20.9")				

CABIN
ROPS / FOPS Cabin Meet ISO 3471 and ISO 3449

OVERVIEW								
Description		HL960A	HL960A XT					
Operating Weig	pht	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 lb)						
	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						
Options include		23.5-25, 20PR, L5						
		23.5-25, Solid tire						
BRAKES								
BRAKES		Hydraulically actuated, wet disc brakes actuate all 4 wheels						
Service Brakes		independent axle-by-axle system. Self adjusting & wheel speed brake.						
Parking Brake		Spring-applied, hydraulically released brake						
Emergency Bra	ike	When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.						
STEERING SY	/STEM							
Туре	JEM	l oad sensing hydrosta	atic articulated steering					
		Variable displacement						
Pump		148.5 l/min (39.2 gal/min)						
System Pressure Cylinder	e	3,046 psi (21,000 kPa)	m (3.15") × 424 mm (16.7")					
Steering Angle		-	eft angle, respectively					
Features		Center-point frame ar						
reatures		Tilt and telescopic ste	ering column.					
SERVICE REFI		s						
Fuel Tank			s (68.6 US gal)					
Def Tank			s (7.9 US gal)					
Cooling System			s (11.1 US gal)					
Crankcase		18.0 liters (4.7 US gal)						
Transmission		33.0 liters (8.7 US gal)						
Front Axle		35.0 liter	s (9.2 US gal)					
Rear Axle		35.0 liter	s (9.2 US gal)					
		440.0.0	(··- ·)					

CAB NOISE LEVEL

Hydraulic Tank Hydraulic System

(Including Tank)

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.

110.0 liters (29.0 US gal)

200.0 liters (52.8 US gal)

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	tio.

HL960A DIMENSIONS

All dimensions are approximate.		· · · · · · · · · · · · · · · · · · ·
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")
T	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 Clearand Maximum Lift	ce at	3,455 (11' 4")	3,885 (12' 9'')		
L	Dump Clearance 45° Discharge	at Maximum Lift and	2,935 (9' 8")	3,365 (11')		
Μ	Reach at Maximu Discharge	Im Lift and 45°	1,285 (4' 2")	1,380 (4' 6")		
N	Dump Angle at N Lift and Dump (o		50	50		
0	Roll Back Angle	Ground	42	42		
0	Non Back Angle	Carry	47	48		
Ρ	Clearance Circle to Outside of Tir		12,060 (39' 6")	12,060 (39' 6")		
Q	Clearance Circle 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)	2,896 (9' 6'')	2,896 (9' 6'')		
S	Tread Width		1,930 (6' 4")	1,930 (6' 4")		

HL960A OPERATING SPECIFICATIONS WITH BUCKETS

Linkage Bucket Type		Standard General Purj	General Purpose - Hook On	High Lift Linkage			
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														
Tumo	m3 (1, rd3)	Material Density [ton / m ³]]													
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 m³ (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 yd ³)			
High lift arm - General Purpose															
Turne	ma3 (sud3)						Mate	rial Den	sity [tor	n / 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 yd³)						3.0 m ³	(3.92 yd³)			
2-Bolt on Tooth	3.2 (4.19)			3.7 m ³ (4.	.84 yd³)						3.0 m ³	(3.92 yd³)			
2-Bolt on Tooth & Segment Edge	3.3 (4.32)		3.8 m ³ (4	.97 yd³)						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	[;])				

INGINE	STD	OPT
ENGINE, CUMMINS, B6.7	510	
3 Stage air precleaner	•	
Alternator, 95A	•	
Fuel warmer		
	•	
Engine oil level dipstick gauge	•	
Fuel / water separator	•	
VGT (Variable Geometry Turbo)	•	
CLEAN EMISSION MODULE		
DOC, DPF and SCR	•	
Active Emission Regeneration (No Manual Rege	eneration F	Require
Stage V Certified Emmissions	•	
EGR Free	•	
Automatic Regeneration	•	
COOLING SYSTEM		
Antifreeze	•	
Auto Reversing Fan (adjustable Time/		
Interval Frequencies) w/ Manual Override	•	
Coolant Level Sight Gauge	•	
Fan guard	•	
Wide Fin Radiator	•	
POWER TRAIN	STD	ΟΡΤ
TRANSMISSION	510	
Transmission F4/R3, computer controlled, electronic soft shift, auto-		
shift and kick-down features included		
Transmission oil sight level	•	
Wide Fin Transmission Oil Cooler	•	
AXLE		
Conventional (Rear)	•	
Hydraulic lock differential (Front)	•	
Limited slip differential (Front / Rear)		•
BRAKE		•
Parking brake	•	
Service brake (Enclosed wet-disc)		
TIRES	-	
23.5 R25, ★★, L3	•	
23.5 R25, ★, XHA		•
23.5-25, 20PR, L3		•
23.5-25, 20PR, L5		
23.3-23, 201 N, L3		•
23.5-25, 201 N, E5		•
23.5-25, Solid Tire	STD	
23.5-25, Solid Tire	STD	
23.5-25, Solid Tire IYDRAULIC SYSTEM Diagnostic pressure taps		OPT
23.5-25, Solid Tire IYDRAULIC SYSTEM Diagnostic pressure taps Hyundai Bio Hydraulic Oil (VG46)	•	
23.5-25, Solid Tire IYDRAULIC SYSTEM Diagnostic pressure taps Hyundai Bio Hydraulic Oil (VG46) Hydraulic oil level sight gauge		OPT •
23.5-25, Solid Tire IYDRAULIC SYSTEM Diagnostic pressure taps Hyundai Bio Hydraulic Oil (VG46) Hydraulic oil level sight gauge Hydraulic Oil VG32	•	OPT
23.5-25, Solid Tire IYDRAULIC SYSTEM Diagnostic pressure taps Hyundai Bio Hydraulic Oil (VG46) Hydraulic oil level sight gauge Hydraulic Oil VG32 Hydraulic Oil VG46	•	OPT •
23.5-25, Solid Tire 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	•	OPT •
23.5-25, Solid Tire 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	•	OPT •
23.5-25, Solid Tire IYDRAULIC 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	•	OPT •
23.5-25, Solid Tire IYDRAULIC 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	•	OPT •
23.5-25, Solid Tire IYDRAULIC 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	•	OPT •
23.5-25, Solid Tire 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	•	OPT •
23.5-25, Solid Tire 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	• • • • • • • • • • • • • • • • • • • •	OPT •
23.5-25, Solid Tire 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	• • • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire 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	•	OP1
23.5-25, Solid Tire IYDRAULIC 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	•	OP1
23.5-25, Solid Tire IYDRAULIC 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	•	OP1
23.5-25, Solid Tire IYDRAULIC 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	• • • • • • • • • • • • •	OP1
23.5-25, Solid Tire IYDRAULIC 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 CAB & INTERIOR	•	OP1
23.5-25, Solid Tire 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 CAB & INTERIOR ALARMS, AUDIBLE AND VISUAL	• • • • • • • • • • • • •	OP1
23.5-25, Solid Tire HYDRAULIC SYSTEM Diagnostic pressure taps Hyundai Bio Hydraulic Oil (VG46) Hydraulic Oil VG32 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 ALARMS, AUDIBLE AND VISUAL Air filter clogging	• • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire 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 ALARMS, AUDIBLE AND VISUAL Air filter clogging Battery voltage	• • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire 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 ALARMS, AUDIBLE AND VISUAL Air filter clogging Battery voltage Brake oil pressure	• • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire 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 ALARMS, AUDIBLE AND VISUAL Air filter clogging Battery voltage	• • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire 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 ALARMS, AUDIBLE AND VISUAL Air filter clogging Battery voltage Brake oil pressure	• • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire 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 CAB & INTERIOR ALARMS, AUDIBLE AND VISUAL Air filter clogging Battery voltage Brake oil pressure DEF low level	• • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire	• • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire	• • • • • • • • • • • • • • • • • • •	OP1
23.5-25, Solid Tire	· · · · · · · · · · · · · · · · · · ·	OP1
23.5-25, Solid Tire	· · · · · · · · · · · · · · · · · · ·	OP1
23.5-25, Solid Tire	· · · · · · · · · · · · · · · · · · ·	OPT
23.5-25, Solid Tire	· · · · · · · · · · · · · · · · · · ·	OP1

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CAB & INTERIOR	STD	OPT
ALARMS, AUDIBLE AND VISUAL		1
Transmission oil temperature	•	
GAUGES		
Diesel Exhaust Fluid (DEF) level	•	
Engine coolant temperature	•	
Fuel level	•	
Horn, electric	•	
Speedometer	•	
Transmission oil temperature	•	
INDICATOR LIGHTS		
Clutch Cut Off	•	
Differential Lock	•	
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	•	
	1	1
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 load	•	
Work load	•	
IGNITION		
Key Bush Start Button	•	
Push Start Button		•
CAB (SOUND SUPPRESSED)		
24V to 12V DC converter (20A)	•	
Coat hook	•	
Magazine pocket	•	
One door cab Radio / USB player	•	

CAB & INTERIOR

STD OPT

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		
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		
Console box	•	
Holder, can and cup	•	
PEDALS		
Accel pedal without ECO switch	•	
Dual-brake pedal		•
One acceletator pedal	•	
One brake pedal	•	
AFETY	STD	OPT
	510	
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		•
OTHERS	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		•
Heavy Counterweight Hi-Mate, Satellite		
	•	
Hi-Mate, Satellite	•	
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 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	•	•
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	•	•
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 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	•	•
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)	· · · · · · · · · · · · · · · · · · ·	
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) Fenders (Rear)	· · · · · · · · · · · · · ·	
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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