

HD HYUNDAI
CONSTRUCTION EQUIPMENT

SPECIFICATIONS HL940A

Powered By Cummins Performance Series Engine



*Photo may include optional equipment.

Net Power

154 hp (115 kW)
at 2,200 rpm

Operating Weight

29,985 lb (13,601 kg) -
30,560 lb (13,862 kg)

Standard Bucket

3.0 yd³ (2.3 m³)

building a
comfortable
tomorrow

HL940A SPECIFICATIONS

ENGINE	
Make / Model	CUMMINS / B6.7*
Type	Tier 4 Final, 6 cylinder diesel engine
Gross Power (SAE J1995)	156 hp (116 kW) at 2,200 rpm
Net Power (SAE J1349)	154 hp (115 kW) at 2,200 rpm
Max. Power	165 hp (123 kW) at 1,800 rpm
Peak Gross Torque (SAE J1995)	550 lb ft (746 Nm) at 1,300 rpm
Displacement	409 in ³ (6.7 ℓ)
Compression Ratio	17.3 : 1
Alternator	24 V, 95 A
Battery	2 × 12 V × 120 Ah
Starting motor	24 V, 7.8 kW

*Tier 4 Final and Stage V Certified

TRANSMISSION		
Torque Converter Type	3-elements, single-stage, single phase	
Tire	20.5 R25, ★★, L3	
Travel Speed	4 speed transmission	
Forward	1st	4.3 (7.0)
	2nd	7.9 (12.8)
	3rd	15.6 (25.1)
	4th	24.9 (40.0)
Reverse	1st	4.6 (7.4)
	2nd	8.4 (13.5)
	3rd	16.4 (26.4)

AXLES	
Drive System	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear Axle Oscillation	Oscillating ± 11° degrees
Hub Reduction	Planetary reduction at wheel end
Differential	Conventional
Reduction Ratio	21.533

HYDRAULIC SYSTEM	
Type	Load sensing hydraulic system
PUMP	
Type	Variable displacement piston pump
Flow Rate	gpm (ℓ/min) 39.3 (148.8)
Control Valve	2-spool (bucket, boom) 3-spool (bucket, boom, aux)
System Pressure	psi (bar) 4,061 (280)
Lift Circuit	The valve has four functions: raise, hold, lower and float. Can adjust automatic kickout from horizontal to full lift.
Tilt Circuit	The valve has three functions: tilt back, hold and dump. Can adjust automatic bucket positioner to desired load angle.

CYLINDERS		
Type	Double acting	
No. of Cylinders. Bore × Stroke	Lift (2)	4.3" × 29" (110 × 737)
	HL940A Tilt (1)	4.9" × 1' 10" (125 × 560)
	HL940A XT Tilt (1)	4.9" × 1' 11" (125 × 585)
Cycle Times	Raise	5.5
	Dump	1.9
	Lower	3.9
	Total	11.3

* Hyundai Bio Hydraulic Oil (HBHO) optional.

OVERVIEW	HL940A	HL940A XT
Operating Weight	29,985 lb (13,601 kg)	30,560 lb (13,862 kg)
Bucket Capacity	Heaped	3.0 yd ³ (2.3 m ³)
	Struck	2.62 yd ³ (2.0 m ³)
Bucket Digging Force	26,015 lb (11,800 kg)	26,325 lb (11,940 kg)
Tipping Load	Straight	23,085 lb (10,471 kg)
	Full Turn	19,850 lb (9,003 kg)
		15,545 lb (7,050 kg)

TIRES	
Type	Tubeless, loader design tires
Standard	Triangle 20.5 R25, ★★, L3
	20.5-25 16PR L3
Options Include	20.5-25 16PR L5
	Michelin 20.5 R25, ★, XHA

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 parking brake automatically applies.

STEERING SYSTEM	
Type	Load sensing hydrostatic articulated steering
Pump	Variable displacement piston pump
Flow rate	gpm (ℓ/min) 39.36 (149)
System Pressure	psi (bar) 3,046 (210)

CYLINDERS	
Type	Double acting
No. of Cylinders – Bore × Stroke;	in (mm) 2 – 2.5" × 16.9" (64 × 429)
Steering Angle	40° to both right and left
Features	Center-point frame articulation. Tilt and telescopic steering column.

SERVICE REFILL CAPACITIES	
Fuel Tank	58.0 (220.0)
DEF Tank	8.0 (30.1)
Cooling System	9.8 (37.0)
Crankcase	4.8 (18.0)
Transmission	gal (ℓ) 9.2 (34.7)
Front Axle	6.1 (23.0)
Rear Axle	6.1 (23.0)
Hydraulic Tank	23.8 (90.0)
Hydraulic System (Including Tank)	34.3 (130.0)

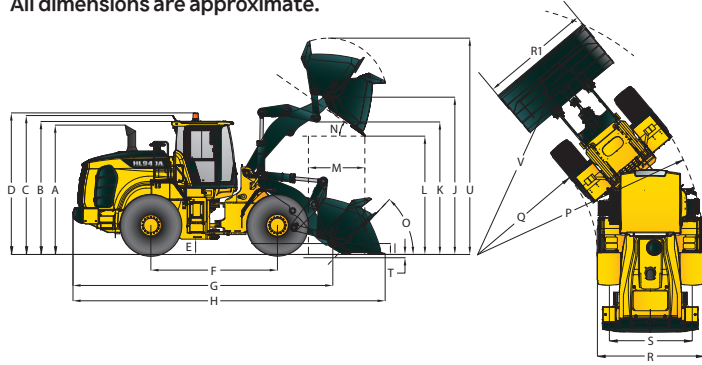
CABIN	
ROPS / FOPS Cabin Meets ISO 3471 and ISO 3449	

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)	68 dB(A)
Exterior sound power level (ISO 6395:2008)	108 dB(A)

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

HL940A DIMENSIONS

All dimensions are approximate.



Unit: ft in (mm)

DIMENSIONS	HL940A	HL940A XT
A Height to Top of Exhaust Pipe	10' 10" (3,310)	
B Height to Top of Cabin	10' 10" (3,300)	
C Height to Top of Product Link Antenna	11' 4" (3,445)	
D Height to Top of Warning Beacon	11' 3" (3,430)	
E Ground Clearance	1' 4.4" (417)	
F Wheelbase	9' 10" (3,000)	
G Overall Length (Without Bucket)	21' 1" (6,430)	23' (7,020)
H Shipping Length (With Bucket Level on Ground)	24' 11" (7,600)	26' 10" (8,190)

DIMENSIONS		HL940A	HL940A XT
I	Hinge Pin Height at Carry Position	1' 5" (430)	1' 12" (600)
J	Hinge Pin Height at Maximum Lift	12' 6" (3,820)	14' 6" (4,425)
K	Lift Arm Clearance at Maximum Lift	10' 7" (3,235)	12' 7" (3,840)
L	Dump Clearance at Maximum Lift and 45° Discharge	9' 1" (2,765)	11' 1" (3,370)
M	Reach at Maximum Lift and 45° Discharge	3' 7" (1,095)	3' 7" (1,090)
N	Dump Angle at Maximum Lift and Dump (on Stops)	48	47
O	Roll Back Angle	Ground	42
		Carry	47
P	Clearance Circle (Diameter) to Outside of Tires	35' 10" (10,910)	35' 10" (10,910)
Q	Clearance Circle (Diameter) to Inside of Tires	19' 5" (5,910)	19' 5" (5,910)
R	Width Over Tires (Unloaded)	8' (2,450)	8' (2,450)
R1	Overall Width (with bucket)	8' 6" (2600)	-
S	Tread Width	6' 4" (1,930)	6' 4" (1,930)

OPERATING SPECIFICATIONS WITH BUCKETS

Linkage	Bucket Type	General Purpose Pin On			ISO Quick Coupler	XT Boom Lift Linkage
		Bolt-On Cutting Edges	Bolt-On Teeth	Bolt-On Cutting Edges		
Edge Type						
Capacity—Rated	yd ³ (m ³)	3.0 (2.3)	2.7 (2.1)	3.0 (2.3)	-	
Capacity—Rated at 110% Fill Factor		3.3 (2.5)	3.0 (2.3)	3.3 (2.5)	-	
Width		8' 6" (2,600)	8' 4" (2,550)	8' 6" (2,600)	-	
Dump Clearance at Maximum Lift and 45° Discharge		9' 1" (2,765)	9' 2" (2,795)	8' 8" (2,640)	+1' 12" (+605)	
Reach at Maximum Lift and 45° Discharge		3' 7" (1,095)	3' 6" (1,065)	4' (1,220)	-0.2" (-5)	
T Digging Depth	ft in (mm)	3.5" (90)	3.5" (90)	3.5" (90)	+1.6" (+40)	
H Shipping Length (with Bucket)		24' 11" (7,600)	24' 10" (7,560)	25' 6" (7,775)	+1' 11" (+590)	
U Overall Height with Bucket		17' (5,185)	16' 11" (5,145)	17' 8" (5,395)	+1' 12" (+605)	
V Loader Clearance Circle		40' (12,180)	39' 9" (12,110)	40' 3" (12,280)	+1' 10" (+570)	
Static Tipping Load, Straight (No Tire Deflection)		23,085 (10,471)	22,270 (10,100)	20,285 (9,200)	-4075 (-1850)	
Static Tipping Load, Articulated (No Tire Deflection)	lb (kg)	19,850 (9,003)	19,180 (8,700)	17,420 (7,900)	-3415 (-1550)	
Breakout Force		26,015 (11,800)	26,965 (12,230)	22,490 (10,200)	+310 (+140)	

BUCKET SELECTION CHART

Type	yd ³ (m ³)	Material Density, ton/yd ³ (t/m ³)																
		0.84 (1.0)	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)	2.02 (2.4)	2.11 (2.5)	
Standard Lift Arm—General Purpose Bucket																		
Bolt-On Cutting Edge	2.3 (3.0)	2.6 m ³ (3.4 yd ³)								2.2 m ³ (2.9 yd ³)								
Bolt-On Teeth	2.1 (2.7)	2.4 m ³ (3.1 yd ³)						2.0 m ³ (2.6 yd ³)										
Cutting Edge (ISO Quick Coupler)	2.3 (3.0)	2.6 m ³ (3.4 yd ³)								2.2 m ³ (2.9 yd ³)								
High Lift Arm (XT)—General Purpose Bucket																		
Bolt-On Cutting Edge	2.3 (3.0)	2.6 m ³ (3.4 yd ³)								2.2 m ³ (2.9 yd ³)								
Bolt-On Teeth	2.1 (2.7)	2.4 m ³ (3.1 yd ³)						2.0 m ³ (2.6 yd ³)										
Cutting Edge (ISO Quick Coupler)	2.3 (3.0)	2.6 m ³ (3.4 yd ³)								2.2 m ³ (2.9 yd ³)								

115% 100% 95%

ENGINE	
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	●
Wide-fin transmission oil cooler	●
AXLE	
Front differential lock / Rear conventional Axle	●
Front differential lock / Rear LSD Axle	○
BRAKE	
Parking brake	●
Service brake (enclosed wet-disc)	●
TIRES	
Triangle 20.5 R25, ★★, L3	●
20.5-25 16PR L3	○
20.5-25 16PR L5	○
Michelin 20.5 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	●

CABIN & INTERIOR	
ALARMS, AUDIBLE AND VISUAL	
Transmission error	●
Transmission oil temperature	●
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 cutoff	●
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	
850 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	●

CABIN & INTERIOR	
CABIN (SOUND SUPPRESSED)	
Magazine pocket	●
One door cab	●
Radio / USB player	●
Rearview mirrors (1 inside)	●
Rearview mirrors (2 outside, heated)	●
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	●
Fire extinguisher	○
AAVM - All Around View Monitoring	○
IMOD (Intelligent Moving Object Detection)	○
RADAR + secondary monitor	○
OTHERS	
2nd monitor	○
3-spool MCV	●
Air compressor	○
Auto engine shut down	●
Auto grease system	○
Articulation locking bar	●
Heavy counterweight	●
ISO quick coupler	●
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	●

* 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.



6100 Atlantic Blvd., Norcross, GA 30071
 TEL (678) 823-7777 FAX (678) 823-7778



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