SPECIFICATIONS

HL940

Tier 4 Final Engine



*Photo may include optional equipment.

Net Power
156 HP (116kW) / 2,100 rpm

Operating Weight
13,100 kg (28,880 lb)

Standard Bucket
2.8m³ / 3.6yd³

HYUNDAI
CONSTRUCTION EQUIPMENT AMERICAS, INC.

SPECIFICATIONS HL940

ENGINE		
Maker/Model		CUMMINS / QSB6.7
Type		Watercooled, 4-cycle, turbocharged charge aircooled, direct injection, electronic controlled diesel engine.
HL940	Gross power	158 HP (118kW) / 2,100rpm
	Net power	156 HP (116kW) / 2,100rpm
Maximum torque		86 kg·m (622lb·ft) / 1,500rpm
No. of cylinders		6
Bore x Stroke		107 mm (4.21") x 124 mm (4.88")
Displacement		6.7ℓ (409 in^3)
Compression ratio		17.3 : 1
Air cleaner		Dry, Two stage dual elements
Alternator		24 V, 95 Amp
Battery		2 x 12 V, 120 Ah.
Starting motor		24 V, 7.8 kW

TRANSMISSION	
Torque converter type	3-Elements, Single-stage, Single phase

* Full automatic power shift, countershaft type with soft-shift in range and direction. Properly matched torque converter to engine and transmission for excellent working ability

Travel speed, km/h (mph)		HL940
Forward	1st	6.9 (4.3)
	2nd	12.7 (7.9)
	3rd	24.9 (15.5)
	4th	40 (24.9)
Reverse	1st	7.3 (4.5)
	2nd	13.4 (8.3)
	3rd	26.1 (16.2)

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 149 lpm (39 gpm)
Relief Valve Setting	210 kgf/cm^2 (2,987 psi)
Cylinder	Double acting 65 mm (2.56") x 429 mm (16.9")
Steering Angle	40° both right and left angle, respectively

Features
Center-point frame articulation. Tilt and telescopic steering column.

AXLES	
Drive system	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	±12° (total 24°)
Hub reduction	Planetary reduction at wheel end
Differential	Conventional
Reduction ratio	21.53

HYDRAULIC SYSTEM		
Type		Load sensing hydraulic system
		Variable axial piston type 149 lpm (39.4 gpm)
Control valve		2 Spool (Bucket, Boom) 3 Spool (Bucket, Boom, Aux) (Opt.) Pilot pressure controlled type
System pressure		280 kgf/cm^2 (3,982 psi)
	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.

Cylinder	HL940/ HL940XT	No. of cylinders-bore x stroke; Lift 2-110 mm x 738 mm (4.3" x 29.1") Tilt 1-125 mm x 505 mm (4.9" x 19.9")
Cycle Time		HL940 / HL940XT
		Raise : 5.5 sec Dump : 1.1 sec Lower : 3.0 sec Total : 9.6 sec

OVERVIEW

Description		UNIT	HL940	HL940XT
Operating weight		kg (lb)	13,100 (28,880)	13,400 (29,540)
Bucket capacity	Heaped	m^3 (yd^3)	2.3 (3.0)	2.3 (3.0)
	Struck	m^3 (yd^3)	2.0 (2.6)	2.0 (2.6)
Breakout force-bucket		kg (lb)	11,250 (24,800)	11,100 (24,470)
Tipping load	Straight	kg (lb)	10,000 (22,050)	8,880 (19,580)
	Full turn	kg (lb)	8,600 (18,960)	7,700 (16,980)

SERVICE REFILL CAPACITIES

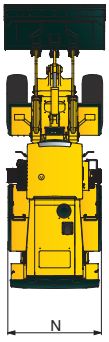
Fuel tank	220 liters (58 USgal)
DEF tank	19 liters (5.0 USgal)
Cooling system	34 liters (9.0 USgal)
Crankcase	18 liters (4.8 USgal)
Transmission	27 liters (7.1 USgal)
Front axle	24 liters (6.3 USgal)
Rear axle	HL940 : 24 liters (6.4 USgal)
Hydraulic tank	90 liters (23.8 USgal)
Hydraulic system (including tank)	130 liters (34.0 USgal)

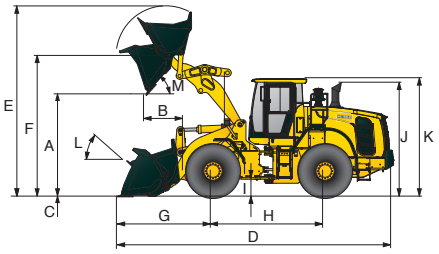
TIRES

Type	Tubeless, loader design tires
Standard	20.5 R25, ★, L3
Options include	20.5-25, 16PR, L3 20.5-25, 16PR, L2 20.5 R25, ★, XHA2 17.5-25, 12PR, L3 17.5-25, 12PR, L2 17.5 R25, ★, XHA2

DIMENSIONS

All dimensions are approximate.





Description		HL940	HL940XT
Bucket Type		General purpose bolt-on cutting edge	
A. Dumping clearance at max. height and 45° dump angle. mm (ft)		2,785 (9.1)	3,210 (10.5)
B. Reach mm (ft)	Full lift	1,025 (3.4)	1,020 (3.3)
	7 ft height	1,530 (5.0)	1,890 (6.2)
C. Digging depth mm (ft)		90 (0.3)	130 (0.4)
D. Overall length	on ground mm (ft)	7,430 (24.4)	7,895 (25.9)
D. Overall length	at carry mm (ft)	7,360 (24.1)	7,845 (25.7)
E. Overallheight (fully raised) mm (ft)		5,255 (17.2)	5,680 (18.6)
F. Bucket pivot max. height mm (ft)		3,820 (12.5)	4,240 (13.9)
G. Front overhang mm (ft)		2,480 (8.1)	2,890 (9.5)
H. Wheelbase mm (ft)		2,950 (9.7)	2,950 (9.7)
I. Ground clearance mm (ft)		417 (1.4)	417 (1.4)
J. Height over exhaust mm (ft)		3,245 (10.6)	3,245 (10.6)
K. Height over cab mm (ft)		3,300 (10.8)	3,300 (10.8)
L. Roll-back angle (deg)	on ground	42	42
	at carry	47	49
M. Dump angle (deg)		48	47
Clearance circle mm (ft)		11,760 (38.6)	12,130 (39.8)
N. Overall width	with bucket mm (ft)	2,600 (8.5)	2,600 (8.5)

CAB & INTERIOR	STD	OPT
Alternator, 95Amp	●	
Alarms, audible and visual		
Air filter clogging	●	
Transmission error	●	
Battery voltage	●	
Brake oil pressure	●	
Engine oil pressure	●	
Parking brake	●	
Water in fuel	●	
Fuel level	●	
Coolant level	●	
Hydraulic oil temperature	●	
Coolant temperature	●	
Transmission oil temperature	●	
Alarm, back-up	●	
Batteries, CMF		
850 CCA, 12V, (2)	●	
Gauges		
Engine coolant temperature	●	
Fuel level	●	
Speedometer	●	
Transmission oil temperature	●	
Indicator lights		
Pilot cut-off	●	
High beam	●	
Turn signal	●	
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)	●	
Lighting system		
1 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	●	
SCR cleaning / inhibit	●	
Secondary steering test		●
Pilot cut off	●	
Membrane Switches in monitor		
Main light	●	
Work light	●	
Quick coupler		●
Ride control	●	
Work load	●	
Beacon lamp		●
Rear wiper	●	
Mirror heat	●	
Auto position	●	

CAB & INTERIOR	STD	OPT
Cab ROPS (ISO3471) / FOPS (ISO3449) (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 (vinyl)		●
3" static seat belt & adjustable heated mechanical suspension		●
3'' 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	●	
Rubber floor mat	●	
Wrist rest	●	

ENGINE		
Antifreeze	●	
Engine, Cummins QSB6.7		
Tier4 Final / Stage 4	●	
Engine enclosure, lockable	●	
Engine fuel priming pump	●	
Fan guard	●	
Fuel/water separator	●	
Clean emission module		
DOC and SCR	●	
Rain cap, engine air intake	●	
Precleaner, engine air intake	●	
Radiator	●	
Starting aid (air intake heater)	●	
Fuel heater	●	
Fuel heater (Dual)		●
Coolant level sight gauge	●	
Engine oil level dipstick gauge	●	
Air cleaner with auto dust eject	●	

POWER TRAIN		
Brakes : Service, enclosed wet-disc	●	
Parking brake	●	
Torque converter	●	
Transmission F4 / R3 speed transmission, computer controlled, electronic soft shift, auto-shift and kick-down features included	●	
Transmission oil sight level	●	
Limited slip differential (front, rear)		●
Transmission oil cooler	●	

POWER TRAIN	STD	OPT
Tires		
20.5R25, ★, L3	●	
20.5 - 25, 16PR, L3		●
20.5 - 25, 16PR, L2		●
20.5R25,★, XHA2		●
17.5 - 25, 12PR, L3		●
17.5 - 25, 12PR, L2		●
17.5R25,★, XHA2		●

HYDRAULIC SYSTEM		
Boom kickout, automatic	●	
Bucket positioner, automatic	●	
Diagnostic pressure taps	●	
Hydraulic oil cooler	●	
Hydraulic control, 2 spool	●	
Hydraulic control, 3 spool	●	
Joystick control lever		●
Joystick control lever with F&R	●	
Finger tip control		●
Ride control system	●	
Secondary steering system		●
Extra piping-for auxiliary function		●
Quick coupler piping		●

OTHER			
Articulation locking bar		●	
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			●
Log grapple			●
Guards			
Crankcase			●
Transmission			●
Mud guards			●
Wheel chock			●
License plate & lamp			●
Hi-Mate(Remote Management System)	Mobile	●	
	Satellite		●
Rearview camera			●

SAFETY		
Beacon light, rotating		●
Fire extinguisher		●

* 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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