

# HL940A <sup>TM</sup>

With EU Stage V Engine Installed



\* Photo may include optional equipment.



Head Office(Sales Office)  
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PLEASE CONTACT

Gross Power  
155 HP (116 kW) / 2,200 rpm

Net Power  
154 HP (115 kW) / 2,200 rpm

Bucket Capacity  
2.3m<sup>3</sup> (3.0yd<sup>3</sup>)

Operating Weight  
13,800 kg (30,425 lb)





SPECIFICATIONS

ENGINE	
Maker / Model	CUMMINS / B6.7 / EU Stage V
Type	4-cycle, turbocharged charge aircooled, direct injection, electronic controlled, diesel engine.
Gross Power (SAE J1995)	155 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)	746 N·m (550 lb.ft) at 1,300 rpm
Displacement	6.7 ℓ (409 cu in)
Cooling method	Water Cooling
Number of cylinders and arrangement	6 cylinders, in line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore×stroke	107 x 124 mm (4.2" x 4.9")
Compression ratio	17.3 : 1
Engine oil quantity	18 ℓ (4.8 U.S gal)
Wet weight	583 kg (1,285lb)
Starter motor	24V - 7.8kW
Alternator	24V - 95Amp
Battery	2 x 12V x 120Ah

HYDRAULIC SYSTEM (MAIN PUMP)	
Type	Load sensing hydraulic system
Pump	Variable displacement piston pump
Rated oil quantity	149 ℓ /min (39.4 U.S. gpm)
Control Valve	2 Spool (Bucket, Boom) 3 Spool (Bucket, Boom, Aux)
System Pressure	280 bar (4,061 psi)
Lift Circuit	The valve has four functions; Raise / Hold / Lower / Float adjustable automatic kickout from horizontal to full lift.
Tilt Circuit	The valve has three functions; Tilt back / Hold / Dump adjustable automatic bucket positioner to desired load angle.
Cylinder	Type: double acting No. of cylinders-bore × stroke Lift 2-110 × 738 mm (4.3" × 2' 5") Tilt 2-95 × 745 mm (3.7" × 2' 5")
Cycle Time	Raise : 5.5 Sec. / Dump : 1.9 Sec. Lower : 3.9 Sec. / Total : 11.3 Sec.

\* Hyundai Bio Hydraulic Oil (HBHO) available

TRANSMISSION		
Model		ZF 4WG 160
4-speed transmission	Torque Converter Type	3-Elements, Single-stage, Single-phase
	Transmission	Full-automatic power shift
Travel Speed		4 speed T/M
		km/h (mph)
Forward	1st	7.0 (4.3)
	2nd	12.8 (8.0)
	3rd	25.1 (15.6)
	4th	40.0 (24.9)
Reverse	1st	7.4 (4.6)
	2nd	13.5 (8.4)
	3rd	26.4 (16.4)
Brake Distance	13 m	(42' 8" ft/in)

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

AXLES	
Drive System	Four-wheel drive system
Mount	Fixed
Rear Axle Oscillation	Oscillating ±11 degrees
Hub Reduction	Planetary reduction at wheel end
Differential	Conventional
Reduction Ratio	21.533

TIRES	
Type	Tubeless, loader design tires
Standard	20.5R25 L3, ★★
Options Include	20.5-25, L3 16PR
	20.5-25, L5 16PR
	20.5R25 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 (STEERING PUMP)	
Type	Load sensing hydrostatic articulated steering
Pump	Variable displacement piston pump, 149 lpm
System Pressure	210 bar (3,046 psi)
Cylinder	Double acting 2-65 × 429 mm (2.6" × 16.9")
Steering Angle	40° to both right and left angle, respectively
Features	Center-point frame articulation. Tilt and telescopic steering column.

SERVICE REFILL CAPACITIES	
Fuel Tank	220.0 liters (58.1 US gal)
DEF Tank	30.1 liters (8.0 US gal)
Cooling System	37.0 liters (9.8 US gal)
Crankcase	18.0 liters (4.8 US gal)
Transmission	35.0 liters (9.2 US gal)
Front Axle	23.0 liters (6.1 US gal)
Rear Axle	23.0 liters (6.1 US gal)
Hydraulic Tank	90.0 liters (23.8 US gal)
Hydraulic System (Including Tank)	130.0 liters (34.3 US gal)

CABIN
ROPS / FOPS meet ISO 3471 and ISO 3449

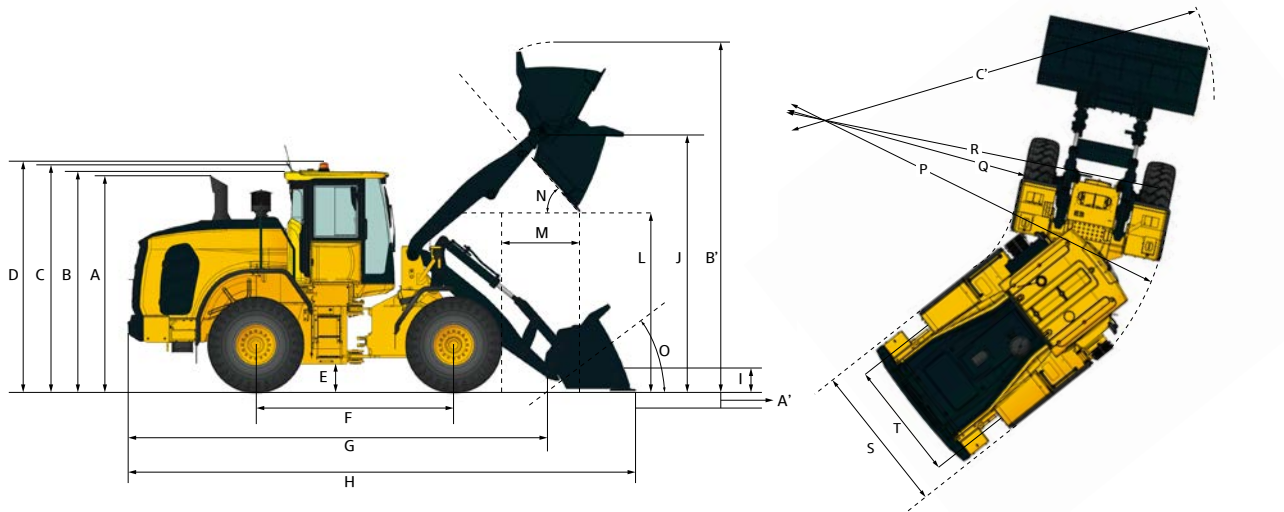
SOUND	
Guaranteed noise level presented below can be differed depending on a range of factors such as operating condition, speed of a cooling fan, types of engine and so forth. Hearing protection shall be necessary if an operator is working in the improperly maintained cabin or exposed to a noisy environment by leaving doors and/or windows open.	
Operator sound pressure level (ISO 6396:2008)	68 dB(A)
Exterior sound power level (ISO 6395:2008)	108 dB(A)

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

OVERVIEW		HL940A TM	
Operating weight		kg (lb)	13,800 (30,425)
Bucket capacity	Heaped	m³ (yd³)	2.30 (3.00)
	Struck	m³ (yd³)	2.00 (2.60")
Breakout force-bucket		kg (lb)	10,830 (23,880)
Tipping Load	Straight	kg (lb)	8,880 (19,580)
	Full	kg (lb)	7,640 (16,845)

DIMENSIONS & SPECIFICATIONS

DIMENSIONS



Unit : mm (ft · in)

MODEL	HL940A TM
A Height to Top of Exhaust Pipe	3,310 (10' 10")
B Overall height (Height to Top of Cabin)	3,300 (10' 10")
C Height to Top of Product Link Antenna	3,445 (11' 4")
D Height to Top of Warning Beacon	3,430 (11' 3")
E Ground Clearance	417 (1' 4")
F Wheelbase	3,000 (9' 10")
G Overall Length (Without Bucket)	6,545 (21' 6")
H Shipping Length (With Bucket Level on Ground)	7,805 (25' 7")
I Hinge Pin Height at Carry Position	425 (1' 5")
J Hinge Pin Height at Maximum Lift	3,980 (13' 1")

MODEL		HL940A TM
L	Dump Clearance at Maximum Lift and 45° Discharge	2,840 (9' 4")
M	Reach at Maximum Lift and 45° Discharge	1,380 (4' 6')
N	Dump Angle at Maximum Lift and Dump (on Stops)	50°
O	Roll Back Angle	50°
	Ground Carry	54°
P	Clearance Circle (Diameter) to Outside of Tires	10,910 (35' 10")
Q	Clearance Circle (Diameter) to Inside of Tires	5,910 (17' 0")
R	Turning radius (center of outside tire)	5,190 (17' 10")
S	Width Over Tires (Unloaded)	2,450 (8' 0")
	Overall Width (With bucket)	2,550 (8' 4")
T	Tread Width	1,930 (6' 4")
	Gradeability	30°

OPERATING SPECIFICATIONS WITH BUCKETS			
Linkage		Tool Master HCE QC	Tool Master ISO QC
Bucket Type		General Purpose - Hook on	General Purpose - Hook on
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacitiy - Rated	m³ (yd³)	2.3 (3.00)	2.3 (3.00)
Capacitiy - Rated at 110% Fill Factor	m³ (yd³)	2.5 (3.30)	2.5 (3.30)
Width	mm (ft/in)	2,550 (8' 4")	2,600 (8' 6")
Dump Clearance at Maximum Lift & 45 ° Discharge	mm (ft/in)	2,840 (9' 4")	2,720 (8' 11")
Reach at Maximum Lift & 45 ° Discharge	mm (ft/in)	1,380 (4' 6")	1,500 (4' 11")
A' Digging Depth	mm (ft/in)	95 (0' 4")	95 (0' 4")
H Shipping Length (with Bucket)	mm (ft/in)	7,805 (25' 7")	7,975 (26' 2")
B' Overall Height with Bucket at Maximum Lift	mm (ft/in)	5,265 (17' 3")	5,575 (18' 3")
C' Loader Clearance Circle with Bucket at Carry Position	mm (ft/in)	12,200 (40' 0")	12,330 (40' 5")
Static Tipping Load. Straight (No Tire Deflection)	kg (lb)	8,880 (19,580)	8,330 (18,365)
Static Tipping Load. Articulated (No Tire Deflection)	kg (lb)	7,640 (16,845)	7,160 (15,790)
Breakout Force	kg (lb)	10,830 (23,880)	9,510 (20,970)
Operating Weight*	kg (lb)	13,800 (30,425)	13,900 (30,645)

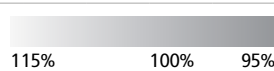
## BUCKET SELECTION CHART

Density of Operating Materials		
Loose Material		Material Density [ton / m <sup>3</sup> ]
Earth / Clay		1.5 ~ 1.7
Sand and Gravel		1.5 ~ 1.7
Aggregate	25 ~ 76 mm (1 " to 3 in)	1.6 ~ 1.7
	19mm (3/4 in) and Larger	1.8

## HL940A TM BUCKET SELECTION CHART

### Standard Lift Arm - General Purpose Bucket

Type	m³ (yd³)																
		1.0	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	2.5
Tool Master HCE QC mounted Cutting edge	2.3 (3.00)	2.6 m³ (3.43 yd³)								2.2 m³ (2.87 yd³)							
Tool Master ISO QC mounted Cutting edge	2.3 (3.00)	2.6 m³ (3.43 yd³)								2.2 m³ (2.87 yd³)							



## CHANGE IN OPERATING SPECIFICATIONS - TIRES

Tires		20.5-25 L3 16PR	20.5-25 L5 16PR	20.5R25 XHA ★
Operating Weight (kg)	kg lb	-108 -235	+440 +975	-52 -110
Static Tipping Load, Straight (No Tire Deflection)	kg lb	-75 -165	+300 +665	-35 -75
Static Tipping Load, Articulated (No Tire Deflection)	kg lb	-60 -130	+260 +575	-30 -65
Vertical Height Changes	mm ft/in	-3 -0.1"	+65 +3"	-7 -0.3"
S. Width Over Tires (Unloaded)	mm ft/in	-6 -0.2"	+27 +1.1"	-6 -0.2"
P. Clearance Circle (Diameter) to Outside of Tires	mm ft/in	-6 -0.2"	+27 +1.1"	-6 -0.2"
Q. Clearance Circle (Diameter) to Inside of Tires	mm ft/in	+6 +0.2"	-27 -1.1"	+6 +0.2"

\*\* Dimension changes compared to 20.5R25 L3 ★★ radial tires.

## STANDARD / OPTION

CAB & INTERIOR	STD	OPT
ALARMS, AUDIBLE AND VISUAL		
Air filter clogging	●	
Battery voltage	●	
Brake oil pressure	●	
DEF low level	●	
Engine coolant level	●	
Engine oil pressure	●	
Fuel level	●	
Hydraulic oil temperature	●	
Engine coolant temperature	●	
Parking brake	●	
Service brake oil pressure	●	
Seat belt ON/OFF	●	
Transmission error	●	
Transmission oil temperature	●	
BATTERIES		
850 CCA, 12 V, 2 pcs	●	
GAUGES		
Diesel Exhaust Fluid (DEF) level	●	
Engine coolant temperature	●	
Fuel level	●	
Speedometer	●	
Transmission oil temperature	●	
Horn, electric	●	
INDICATOR LIGHTS		
Parking brake	●	
High beam	●	
Pilot cut off	●	
Turning light	●	
Seat belt ON/OFF	●	
Engine auto stop	●	
Clutch Cut Off	●	
Ride control		●
Joystick steering		●
FNR		●
Differential Lock		●
LCD DISPLAY		
DEF level	●	
DEF low level	●	
Transmission gear range	●	
Clock and fault code	●	
Job time and distance	●	
Operating hour counter	●	
Engine rpm	●	
Horn, electric	●	
LIGHTING SYSTEM		
Brake lights(Counterweight)	●	
LED dome light	●	
2 stop and tail lights	●	
4 turn signals	●	
2 Head lights on front tower	●	
2 Head lights (LED) on front tower		●
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		●

CAB & INTERIOR	STD	OPT
SWITCHES		
Hazard	●	
DPF	●	
Engine hood open	●	
Parking	●	
Battery master switch	●	
FNR shifter	●	
Pilot cut off	●	
Differential Lock foot switch		●
Emergency steering		●
Air compressor		●
IGNITION		
Key	●	
Button		●
CABIN (SOUND SUPPRESSED)		
ROPS/ FOPS Cabin	●	
Coat hook	●	
Rear view mirrors (1 Inside)	●	
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 cabin	●	
Magazine pocket	●	
Radio / USB player	●	
Rubber floor mat	●	
Wrist rest & Armrest	●	
24 V to 12 V DC converter (20 A)	●	
Cigar lighter & ashtray		●
DOOR		
Door and Cabin 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		
2" Retractable Seat Belt & Adjustable Mechanical Suspension (HEated)	●	
2" Retractable Seat Belt & Adjustable Air Suspension (HEated)		●
3" Retractable Seat Belt & Adjustable Air Suspension (HEated)		●
PERSONAL STORAGE SPACE		
Console Box	●	
Holder, Can and Cup	●	
PEDALS		
One Accelerator Pedal	●	
One Brake Pedal	●	
Dual-Brake Pedal		●
Accel Pedal Without ECO Switch	●	
Accel Pedal With ECO Switch		●

STANDARD / OPTION

ENGINE	STD	OPT
Alternator, 95A	●	
Antifreeze	●	
Fuel warmer (Single)	●	
Fan guard	●	
Rain cap, engine air intake	●	
Coolant level sight gauge	●	
Centrifugal air precleaner		●
ENGINE, CUMMINS, B6.7		
EU STAGE V / EPA TIER 4 FINAL	●	
Engine fuel priming pump	●	
Fuel / water separator	●	
Radiator	●	
Engine oil level dipstick gauge	●	
CLEAN EMISSION MODULE		
DOC, DPF and SCR	●	
POWER TRAIN	STD	OPT
Transmission F4 / R3, computer controlled, electronic soft shift, auto-shift and kick-down features included	●	
Torque converter	●	
Transmission oil sight level	●	
Transmission oil cooler	●	
Travel speed limiter (20-40 km/h)	●	
FRONT AXLE		
Open differential	●	
Limited slip differential		●
Hydraulic lock differential		●
REAR AXLE		
Open differential	●	
Limited slip differential		●
BRAKE		
Service brake (Enclosed wet-disk)	●	
Parking brake	●	
TYRES		
20.5R25 L3 ★★	●	
20.5-25 L3 16PR		●
20.5-25 L5 16PR		●
20.5R25 XHA ★		●
HYDRAULIC SYSTEM	STD	OPT
Boom kickout, automatic	●	
Bucket positioner, automatic	●	
Diagnostic pressure taps	●	
Hydraulic oil cooler	●	
Hydraulic oil level sight gauge	●	
EH Control (Joystick)	●	
EH Control (Fingertip)		●
EH Joystick Steering		●
Ride control system		●
Secondary steering system		●
Extra piping-for auxiliary function		●
Quick coupler piping		●
Auto grease system		●
Hyundai Bio Hydraulic Oil (HBHO)		●

SAFETY	STD	OPT
Emergency Stop	●	
Emergency steering		●
Rear View Camera		●
Fire extinguisher		●
Boom safety bar		●
OBJECT DETECTION		
AAVM+(Advanced Around View Monitoring)		●
See-throught Bucket		●
OTHER	STD	OPT
Articulation locking bar	●	
Lift and tie-down hooks	●	
Loader linkage, sealed	●	
Vandalism protection caplocks	●	
E-Horn	●	
Tool kit		●
BUCKET		
2.3 m³ Bolt-on Cutting Edge HCE Type Hook On Bucket	●	
2.3 m³ Bolt-on Cutting Edge ISO Type Hook On Bucket		●
COUNTERWEIGHT		
Counterweight	●	
Drawbar with pin	●	
ERGONOMICALLY LOCATED AND SLIP RESISTANT, LEFT & RIGHT		
Handrails	●	
Ladders	●	
Platforms	●	
Steps	●	
GUARDS		
Fenders (Front / Rear)	●	
Crankcase		●
Transmission		●
Mud Guard		●
TELEMETICS		
ECD (Engine connected Diagnostics)	●	
Hi MATE		●

\* 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.

MEMO