SPECIFICATIONS

ENGINE	
Maker / Model	SCANIA / DC09 085A
Туре	Watercooled, 4-cycle, turbocharged charge aircooled, direct injection, electronic controlled diesel engine.
Gross power	232 kW (311 HP) / 2,100 rpm
Net power	230 kW (308 HP) / 2,100 rpm
Maximum torque	174 kg.m (1259 lb.ft) / 1,200 rpm
No. of cylinders	5
Bore x Stroke	130 mm (5.12") × 140 mm (5.51")
Displacement	9.3 ℓ (568 cu in)
Compression ratio	17.0:1
Air cleaner	Dry, two stage dual elements
Alternator	24 V, 100 A
Battery	2 × 12 V, 900 CCA
Starting motor	24 V, 6.0 kW

TRANSMISSION	
Torque converter type	3-elements, single-stage single-phase
Tire	26.5 R25, L3

* 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)	4 speed T/M	5 speed T/M with lock up clutch
Forward	1st	7.3 (4.5)	7.2 (4.5)
	2nd	12.2 (7.6)	12.4 (7.7)
	3rd	27.2 (16.9)	19.7 (12.2)
	4th	40.0 (24.9)	28.1 (17.5)
	5th		40.0 (24.9)
Reverse	1st	7.3 (4.5)	7.2 (4.5)
	2nd	12.2 (7.6)	12.4 (7.7)
	3rd	27.2 (16.9)	28.1 (17.5)

AXLES	
Drive system	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	Oscillation ±11° of center pin-loaded
Hub reduction	Planetary reduction at wheel end
Differential	Conventional
Reduction ratio	24.666

OVERVIEW				
Description		UNIT	HL970	HL970 XT
Operating weig	ht	kg (lb)	23,500 (51,809)	24,300 (53,572)
Bucket	Heaped	m³ (yd³)	4.2 (5.5)	4.2 (5.5)
capacity	Struck	m³ (yd³)	3.6 (4.7)	3.6 (4.7)
Breakout force-bucket		kg (lb)	21,775 (48,006)	21,715 (47,873)
Tipping S load	Straight	kg (lb)	18,000 (39,683)	16,100 (35,494)
	Full turn	kg (lb)	15,580 (34,348)	13,850 (30,534)

TIRES	
Туре	Tubeless, loader design tires
Standard	23.6 R25, ★, L3
Options include	26.5-25, 20PR, L3 26.5-25, 20PR, L5 26.5, R25 XHA2 23.5-25, 20PR, L3 26.5-25, 28PR, L3 26.5-25, 32PR, L3

HYDRAULIC SYSTEM			
Туре	Load sensing hydraulic system		
Pump	Variable displacement piston pump, 323 lpm		
Control valve	2 Spool (Bucket, Boom) 3 Spool (Bucket, Boom, Aux)		
System pressure	280 kgf/cm ²		
Lift Circuit	The valve has four functions; Raise / Hold / Lower / Float Can adjust automatic kickout from horizontal to full lift.		
Tilt Circuit	The valve has three functions; Tilt back / Hold / Dump Can adjust automatic bucket positioner to desired load angle.		
Cylinder HL970 HL970 XT	Type: Double acting No. of cylinders-bore x stroke; Lift 2-160 mm (6.3") x 780 mm (30.7") Tilt 1-180 mm (7.1") x 565 mm (22.2") Tilt 1-180 mm (7.1") x 570 mm (22.4")		
Cycle Time	Raise: 5.7 sec Dump: 1.4 sec Lower: 3.1 sec Total: 10.2 sec		

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, hydraulic released brake
Emergency Brake	When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.

STEERING SYSTEM	
Туре	Load sensing hydrostatic articulated steering
Pump	Variable displacement pump, 208 lpm
Relief Valve Setting	210 kgf/cm ²
Cylinder	Double acting 2-95 mm (3.7") × 480 mm (18.9")
Steering Angle	40° to both right and left angle, respectively

Features

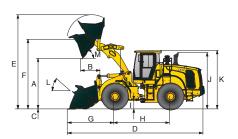
Center-point frame articulation. Tilt and telescopic steering column.

SERVICE REFILL CAPACITIES		
Fuel tank	300 ℓ (79.3 Us gal)	
DEF tank	60 ℓ (15.9 Us gal)	
Cooling system	42 ℓ (11.1 Us gal)	
Crankcase	36 l (9.5 Us gal)	
Transmission	43 ℓ (11.4 Us gal)	
Front axle	51 ℓ (13.5 Us gal)	
Rear axle	40 ℓ (10.6 Us gal)	
Hydraulic tank	152 (40.2 Us gal)	
Hydraulic system (including tank)	276 ℓ (72.9 Us gal)	

DIMENSIONS

All dimensions are approximate.





Description		UNIT	HL970	HL970 XT
Bucket Type		General purpose bolt-on cutting edge		
A. Dumping clearance at max. height and 45° dump angle.		mm (ft-in)	3,570 (11' 8.6")	3,080 (10' 1.3")
B. Reach	Full lift	mm (ft-in)	1,270 (4' 2.0")	1,305 (4' 3.4")
	7ft height	mm (ft-in)	1,905 (6' 3.0")	2,330 (7' 7.7")
C. Digging depth		mm (in)	100 (3.9")	115 (4.5")
D. Overall length	on ground	mm (ft-in)	8,740 (28' 8.1")	9,280 (30' 5.4")
	at carry	mm (ft-in)	8,640 (28' 4.2")	9,145 (30')

Description		UNIT	HL970	HL970 XT
E. Overall heigh (fully raised)	nt	mm (ft-in)	5,970 (19' 7.0")	6,460 (21' 2.3")
F. Bucket pivot r	max. height	mm (ft-in)	4,330 (14' 2.5")	4,815 (15' 9.6")
G. Front overha	ng	mm (ft-in)	3,025 (9' 11.1")	3,455 (11' 4.0")
H. Wheelbase	H. Wheelbase		3,500 (11' 5.8")	3,500 (11' 5.8")
I. Ground cleara	I. Ground clearance		480 (1' 6.9")	480 (1' 6.9")
J. Height over exhaust		mm (ft-in)	3,515 (11' 6.4")	3,515 (11' 6.4")
K. Height over o	ab	mm (ft-in)	3,590 (11' 9.3")	3,590 (11' 9.3")
L. Roll-back	on ground	deg	43	43
angle	at carry	deg	47	49
M. Dump angle		deg	50	50
Clearance circle		mm (ft-in)	11,950 (39' 2.5")	11,950 (39' 2.5")
N. Overall width with bucket		mm (ft-in)	3,100 (10' 2.1")	3,100 (10' 2.1")
	without bucket	mm (ft-in)	2,975 (9' 9.1")	2,975 (9' 9.1")

HL970/ DENSITY	OF OPERATING MATERIALS		
Loose Material		Material Density	
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	
	19 mm (0.75 in) and larger	1.8	

HL970/ DENSITY OF OPERATING MATERIALS							
Lift arm	Bucket	Type m	3 /	Material Density [t/m³]			
			m³ (yd³)	0.9 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	
Standard lift arm	General Purpose	Cutting edge	5.2 (6.8)	6.0 m ³ (7.8 yd ³)	5.0 m ³ (6.5 yd ³)	
		1-Bolt on tooth	5.0 (6.5)	5.8 m ³ (7.6 yd ³)	4.7 m ³ (6	.1 yd³)	
		Cutting edge	4.2 (5.5)	4.8 m ³ (6.3 yd ³)		4.0 m ³ (5.2 yd ³)	
		1-Bolt on tooth & segment edge	4.2 (5.5)	4.8 m³ (6.3 yd³)		4.0 m ³ (5.2 yd ³)	
		2-Bolt on tooth & segment edge	4.2 (5.5)	4.8 m³ (6.3 yd³)		4.0 m ³ (5.2 yd ³)	
		1-Bolt on tooth	4.0 (5.2)	4.6 m³ (6.0 yd³		3.8 m³ (5.0 yd³)	
		2-Bolt on tooth	4.0 (5.2)	4.6 m³ (6.0 yd³	5)	3.8 m³ (5.0 yd³)	
		Cutting edge	3.5 (4.6)		4.0 m ³ (5.2 yd ³)	3.3 m ³ (4.3 yd ³)	
High lift arm (XTD)	General Purpose	Cutting edge	5.2 (6.8)	6.0 m ³ (7.8 yd ³)	5.0 m³ (6.5 yd³)		
		1-Bolt on tooth	5.0 (6.5)	5.8m ³ (7.6 yd ³)	4.7 m ³ (6.1 yd ³)	
		Cutting edge	4.2 (5.5)	4.8 m ³ (6.3 yd ³)	4.0	m³ (5.2 yd³)	
		1-Bolt on tooth & segment edge	4.2 (5.5)	4.8 m³ (6.3 yd³)	4.0	m³ (5.2 yd³)	
		2-Bolt on tooth & segment edge	4.2 (5.5)	4.8 m³ (6.3 yd³)	4.0	m³ (5.2 yd³)	
		1-Bolt on tooth	4.0 (5.2)	4.6 m³ (6.0 yd³)		3.8 m ³ (5.0 yd ³)	
		2-Bolt on tooth	4.0 (5.2)	4.6 m³ (6.0 yd³)		3.8 m ³ (5.0 yd ³)	
		Cutting edge	3.5 (4.6)	4.0 m ³ (5	i.2 yd³)	3.3 m ³ (4.3 yd ³)	

115% 100% 95%

CABIN & INTERIOR	STD	OPT
Alternator, 100 A	•	
Alarms, audible and visual		
Air filter clogging	•	
Transmission error	•	
Battery voltage Brake oil pressure	•	
Engine oil pressure	•	
Parking brake	•	
Fuel level	•	
Hydraulic oil temperature	•	
Coolant temperature	•	
Transmission oil temperature	•	
Service brake oil pressure	•	
Coolant level Water in fuel	•	
Alarm, back-up	•	
Batteries, PT		
925 CCA, 12 V, (2)	•	
Gauges		
Engine coolant temperature	•	
Fuel level	•	
Speedometer	•	
Transmission oil temperature	•	
Horn, electric Indicator lights	•	
T/C lock up		•
High beam	•	
Turn signal	•	
FNR joystick steering		•
Pilot cut off	•	
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		
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 (2 xenon) 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		•
Diff, lock		•
Secondary steering test		•
Pilot cut off	•	
Membrane Switches in monitor		
Main light	•	
Work light Auto grease	•	
Quick coupler		-
Ride control		•
Work load	•	_
Beacon lamp		•
Rear wiper	•	
Mirror heat		•
Auto position	•	
Fine modulation		•
Cab (sound suppressed and pressurized) wi	th	
Cigar lighter & ashtray		

CABIN & INTERIOR	STD	OPT
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 (heated)		•
3" static seat belt & adjustable mechanical		•
suspension		
2" 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	•	
24-volt to 12-volt DC converter (20A)		•
ENGINE		
Antifreeze		
Engine, SCANIA, DC09 085A	_	
Tier 4 Final / Stage 4		
Engine enclosure, lockable	•	
Engine fuel priming pump	•	
Fan guard	•	
Fuel/water separator (return)	•	
Clean emission module		
DOC and SCR	•	
Rain cap, engine air intake	•	
Radiator	•	
Fuel heater	•	
Coolant level sight gauge	•	
Engine oil level dipstick gauge	•	
3 Stage Air Precleaner		•
Air cleaner with auto dust eject	•	
POWER TRAIN		
Brakes : Service, enclosed wet-disc	•	
Parking brake	•	
Torque converter	•	
Transmission F4 / R3, computer controlled,	•	
electronic soft shift, auto-shift and kick-down features included		
Transmission F5 / R3 with lock-up clutch		•
Transmission oil sight level	•	_
Limited slip differential (front, rear)	_	•
Transmission oil cooler	•	
Transmission oil cooler with thermostat		•
Hydraulic lock differential (front)		•
Axle cooling system		•
Tires		
26.5 R25, L3	•	
26.5-25, 20PR, L3		•
26.5-25, 20PR, L5		•
26.5 R25, XHA2		•
23.5-25, 20PR, L3		•
26.5-25, 28PR, L3		•
26.5-25, 32PR, L3		•

HYDRAULIC SYSTEM	STD	OPT
Boom kickout, automatic	•	
Bucket positioner, automatic	•	
Diagnostic pressure taps	•	
Hydraulic oil cooler	•	
Hydraulic control, 2 spool	•	
Hydraulic control, 3 spool	•	
Joystick Control (EH control)	•	
Lever control-single axle (EH control)		•
Joystick Steering	•	
Ride control system	•	
Secondary steering system	•	
Extra piping-for auxiliary function		•
Quick coupler piping		•
Auto grease system		•
OTHER		
Articulation locking bar	•	
Counterweight	•	
Optional counter weight		•
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		•
Guards	1	
Crankcase	•	
Transmission	•	
Mud quards	•	
Wheel chock	•	
License plate & lamp	_	•
Hi-Mate (Remote Management System)	•	
Rearview camera	•	
SAFETY		
Beacon light, rotating		•
Fire extinguisher		•
Operator suit		•
·		

STD = Standard $\mathsf{OPT} = \mathsf{Optional}$

- * 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.

- or inch.



PLEASE CONTACT