

HD HYUNDAI
CONSTRUCTION EQUIPMENT

SPECIFICATIONS

HL985A

Powered By Cummins Performance Series Engine



*Photo may include optional equipment.

Net Power
420 HP (321kW) 2,100 rpm

Operating Weight
77,935 lb (35,350 kg)

Bucket Capacity
9.20 yd³ (7.0 m³)

building a
comfortable
tomorrow

SPECIFICATIONS | HL985A

ENGINE

Maker / Model	CUMMINS / X12 / EU Stage V
Type	6 cylinder, Watercooled, 4-cycle, turbocharged, charge air cooled, direct injection, electronic controlled diesel engine.
Gross Power (SAE J1995)	430 HP (321 kW) at 2,100 rpm
Net Power (SAE J1349)	420 HP (313 KW) at 2,100 rpm
Max. Power	473 HP (353 kW) at 1,700 rpm
Peak Gross Torque (SAE J1995)	1,696 lb.ft (2,300 N•m) † 1,400 rpm
Displacement	11.8 ℓ (720 cu in)

*Stage V & Tier 4 Final Certified

TRANSMISSION

Travel Speed, km/h (mph)	5-speed T/M with lock up clutch	
Forward	1st	6.2 (3.9)
	2nd	11.9 (7.4)
	3rd	18.5 (11.5)
	4th	27.1 (16.8)
	5th	40.0 (24.9)
Reverse	1st	6.2 (3.9)
	2nd	11.9 (7.4)
	3rd	27.1 (16.8)

• 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	Hydraulic lock differential(F) / Conventional Type(R)
Reduction Ratio	27.0

TIRES

Type	Tubeless, loader design tires
Standard	875/65R29 L3 ★★
Options	29.5R25 L3 ★★

BRAKES

Service Brakes	Hydraulically actuated, wet disc brakes actuate all 4 wheels with independent axle-by-axle system. Self adjusting and 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.

CABIN

ROPS / FOPS Cabin Meet ISO 3471 and ISO 3449

HYDRAULIC SYSTEM

Type	Load sensing hydraulic system	
Pump	Variable displacement piston pump 520 lpm (138 U.S. gpm)	
Control Valve	2 Spool (Bucket, Boom) 3 Spool (Bucket, Boom, Aux)	
System Pressure	315 bar (4,569 psi)	
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	Type: double acting	
	No. of cylinders-bore × stroke	
	Lift	2-190 × 890 mm (2-7.1" × 2' 10.8")
Bucket Cylinder	1-210 × 550 mm (1-7.9" × 1' 9.7")	
Cycle Time	Raise from carry position : 6.1 Sec.	
	Dump, at maximum raise : 1.7 Sec.	
	Lower, empty, float down : 4.3 Sec.	
	Total : 12.1 Sec.	

STEERING SYSTEM

Type	Load sensing hydrostatic articulated steering
Pump	Variable displacement piston pump
System Pressure	210 bar (3,046 psi)
Cylinder	Double acting 2 - 105 (4.1") × 460 mm (18.1")
Steering Angle	40° to both right and left angle, respectively
Features	Center-point frame articulation. Tilt and telescopic steering column.

* Hyundai Bio Hydraulic Oil (HBHO) available

SERVICE REFILL CAPACITIES

Fuel Tank	440.0 liters (116.2 US gal)
DEF Tank	44.5 liters (11.8 US gal)
Cooling System	45.5 liters (12.0 US gal)
Crankcase	34.0 liters (9.0 US gal)
Transmission	56.2 liters (14.8 US gal)
Front Axle	64.0 liters (16.9 US gal)
Rear Axle	64.0 liters (16.9 US gal)
Hydraulic Tank	200 liters (52.8 US gal)
Hydraulic System (Including Tank)	360 liters (95.1 US gal)

CAB NOISE LEVEL

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.

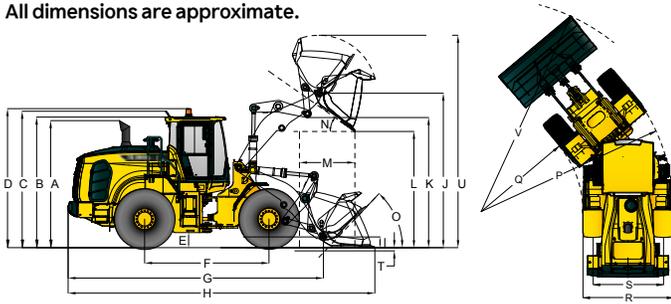
With cooling fan speed at maximum value:

Operator sound pressure level (ISO 6396:2008)	70 dB(A)
Exterior sound power level (ISO 6395:2008)	108 dB(A)

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

DIMENSIONS | HL985A

All dimensions are approximate.



Description	HL985A
A Height to Top of Exhaust Pipe	12' 2" (3,715)
B Height to Top of Cabin	12' 8" (3,865)
C Height to Top of Product Link Antenna	12' 10" (3,905)
D Height to Top of Warning Beacon	13' 1" (3,995)
E Ground Clearance	1' 7" (487)
F Wheelbase	12' 6" (3,800)
G Overall Length (without Bucket)	27' 9" (8,465)
H Shipping Length (with Bucket Level on Ground)	34' 9" (10,600)
I Hinge Pin Height at Carry Position	1' 9" (540)
J Hinge Pin Height at Maximum Lift	15' 7" (4,750)

Unit: ft-in (mm)

Description	HL985A	
K Lift Arm Clearance at Maximum Lift	13' 2" (4,010)	
L Dump Clearance at Maximum Lift and 45° Discharge	9' 10" (2,995)	
M Reach at Maximum Lift and 45° Discharge	6' 2" (1,885)	
N Dump Angle at Maximum Lift and Dump (on Stops)	48°	
O Roll Back Angle	Ground	42°
	Carry	47°
P Clearance Circle (Diameter) to Outside of Tires	47' 3" (14,440)	
Q Clearance Circle (Diameter) to Inside of Tires	24' 10" (7,560)	
R Width Over Tires (Unloaded)	11' 3" (3,420)	
S Tread Width	8' 4" (2,540)	

HL985A OPERATING SPECIFICATIONS WITH BUCKETS

Linkage Bucket Type		Standard Linkage General Purpose - Pin On		
Edge Type		2 Piece Tooth & Seg	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity - Rated	yd³ (m³)	8.50 (6.5)	8.50 (6.5)	8.50 (6.5)
Capacity - Rated at 110% Fill Factor	yd³ (m³)	9.20 (7.0)	9.20 (7.0)	9.20 (7.0)
Width	ft/in (mm)	11' 10" (3,600)	11' 10" (3,600)	11' 10" (3,600)
Dump Clearance at Maximum Lift and 45° Discharge	ft/in (mm)	9' 10" (2,995)	10' 4" (3,145)	11' 0" (3,360)
Reach at Maximum Lift and 45° Discharge	ft/in (mm)	6' 2" (1,885)	5' 9" (1,760)	5' 1" (1,550)
T Digging Depth	ft/in (mm)	0' 5" (135)	0' 5" (115)	0' 5" (115)
Shipping Length (with Bucket)	ft/in (mm)	34' 9" (10,600)	33' 10" (10,300)	32' 10" (10,000)
U Overall Height with Bucket at Maximum Lift	ft/in (mm)	22' 3" (6,780)	22' 3" (6,780)	22' 1" (6,740)
V Loader Clearance Circle with Bucket at Carry Position	ft/in (mm)	52' 10" (16,110)	52' 3" (15,930)	51' 8" (15,750)
Static Tipping Load, Straight (No Tire Deflection)	lb (kg)	60,805 (27,580)	55,230 (25,050)	58,425 (26,500)
Static Tipping Load, Articulated (No Tire Deflection)	lb (kg)	52,625 (23,870)	47,845 (21,700)	50,600 (22,950)
Breakout Force	lb (kg)	52,475 (23,800)	52,475 (23,800)	62,615 (28,400)
Operating Weight*	lb (kg)	77,995 (35,377)	75,135 (34,080)	74,520 (33,800)

* All height and tire related dimensions are with standard 29.5R25, H H, L3 tires.

CHANGE IN OPERATING SPECIFICATIONS - WITH OPTIONAL TIRES

Tires		29.5R25 L3 ★★	
Operating weight	lb (kg)	-1,795 (-815)	
Static Tipping Load, Straight (No Tire Deflection)	lb (kg)	-1,320 (-600)	
Static Tipping Load, Articulated (No Tire Deflection)	lb (kg)	-1,120 (-510)	
Vertical height changes	ft/in (mm)	0" (-1)	
R Width over tires(unloaded)	ft/in (mm)	-9.1" (-230)	
P Clearance Circle(diameter) to Outside of Tires	ft/in (mm)	-4.5" (-115)	
Q Clearance Circle(diameter) to Inside of Tires	ft/in (mm)	4.5" (115)	

* Dimension changes compared to 875/65R29 L3 ★★ radial tires.

DENSITY OF OPERATING MATERIALS

Loose Material		Material Density [ton / m³]
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

HL985A BUCKET SELECTION CHART

Standard Lift Arm - General Purpose

Type	m³	Material Density [ton/m³]											
		1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Bolt-On Cutting Edge	6.5	6.8 m³						7.5 m³					
Bolt-On Cutting Edge	7.0	8.1 m³						6.7 m³					
2-Piece Tooth and Segment	7.0	8.1 m³						6.7 m³					

115% 100% 95%

ENGINE	STD	OPT
ENGINE		
Cummins X12 Engine	•	
POWER TRAIN		
Transmission F5 / 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		
Hydraulic lock differential	•	
REAR AXLE		
Conventional Type	•	
BRAKE		
Service brake (enclosed wet-disk)	•	
Parking brake	•	
TIRES		
29.5R25, L3, ★★		•
875/65R29 L3, ★★	•	
HYDRAULIC SYSTEM		
Boom kickout, automatic	•	
Bucket positioner, automatic	•	
Diagnostic pressure taps	•	
Hydraulic oil cooler	•	
Hydraulic oil level sight gauge	•	
EH control (joystick)	•	
EH control (fingertip)		•
Rice control system	•	
Extra piping-for auxiliary function		•
Auto grease system		•
Quick coupler piping	•	
SAFETY		
Emergency stop	•	
Emergency steering	•	
Rearview camera	•	
Fire extinguisher		•
OBJECT DETECTION		
AAVM (AVM + MOD)	•	
Radar		•
Secondary monitor	•	
OTHER		
Fuel warmer	•	
Articulation locking bar	•	
Lift and tie-down hooks	•	
Loader linkage, sealed	•	
Vandalism protection caplocks	•	
E-horn	•	
Tool kit		•
Rain cap	•	
Pre-cleaner		•
Air compressor		•
Wheel chock		•
BUCKET		
6.5 m ³ bolt-on cutting edges type		•
7.0 m ³ bolt-on cutting edges type		•
7.0 m ³ 2-piece tooth and segment type	•	
COUNTERWEIGHT		
Counterweight	•	
Drawbar with pin	•	
ERGONOMICALLY LOCATED AND SLIP RESISTANT, LEFT and RIGHT		
Handrails / ladders / platforms / steps	•	

OTHER	STD	OPT
GUARDS		
Cabin (front / rear)		•
Fenders (front / rear)	•	
Under guard (E/G, T/M)	•	
Mud guard	•	
TELEMETICS		
ECD (engine connected diagnostics)	•	
Hi MATE	•	
CABIN & INTERIOR		
ALARMS, AUDIBLE AND VISUAL		
Air filter clogging	•	
Battery voltage	•	
Brake oil pressure	•	
Engine coolant level	•	
Engine oil pressure	•	
Fuel level	•	
Hydraulic oil temperature	•	
Engine coolant temperature	•	
Service brake oil pressure	•	
Transmission error	•	
Transmission oil temperature	•	
BATTERIES		
1315 CCA, 12 V, 2 pcs	•	
GUAGES		
Engine coolant temperature	•	
Fuel level	•	
Speedometer	•	
Transmission oil temperature	•	
INDICATOR LIGHTS		
Parking brake	•	
Headlight (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 (CLUSTER)		
Transmission gear range	•	
Parking brake	•	
FWD / REV	•	
LCD DISPLAY (MONITOR)		
Engine rpm	•	
Fuel rate	•	
Fault and maintenance warning	•	
Odometer	•	
Hour meter	•	
Horn, electric	•	
LIGHTING SYSTEM		
Brake lights (counterweight)	•	
LED beacon 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		•
License light		•

CAB & INTERIOR	STD	OPT
SWITCHES		
Hazard	•	
Engine hood open	•	
Parking	•	
Battery master switch	•	
FNR shifter	•	
Pilot cut-off	•	
Differential lock foot switch		•
Emergency steering	•	
IGNITION		
Key	•	
Button		•
MEMBRANE SWITCHES IN MONITOR		
Main light	•	
Work light	•	
Weighing system	•	
Mirror heat	•	
Auto position	•	
Fine modulation	•	
Rear wiper	•	
Auto grease		•
Ride control	•	
Beacon light		•
Cam	•	
CABIN (SOUND SUPPRESSED)		
ROPS/ FOPS cabin	•	
Coat hook	•	
Rearview mirrors (1 inside / 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	•	
Magazine pocket	•	
Radio / USB player	•	
Wrist rest and armrest	•	
24 V to 12 V DC converter (20 A)		•
DOOR		
Door and cabin 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		
2" retractable seat belt and adjustable mechanical suspension (heated)		•
3" retractable seat belt and adjustable air suspension (heated)	•	
2" retractable seat belt and adjustable air suspension (heated)		•
PERSONAL STORAGE SPACE		
Console box	•	
Cup holder	•	
PEDALS		
One brake pedal	•	
Dual-brake pedal		•

* 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.

