

SPECIFICATIONS

HL980A

Powered By Cummins Performance Series Engine



*Photo may include optional equipment.



Net Power
351 HP (262kW) 2,000 rpm

Operating Weight
31,352 kg (69,120 lb) –
31,502 kg (69,450 lb)

Bucket Capacity
5.6 m³ (7.3 yd³)

 **HYUNDAI**
CONSTRUCTION EQUIPMENT

SPECIFICATIONS HL980A

ENGINE

| | |
|-------------------------------|--|
| Maker / Model | CUMMINS / X12 |
| Type | Tier 4F/ Stage V Emission Certified, 6 cylinder diesel engine with No Manual Regeneration. |
| Gross Power (SAE J1995) | 355 HP (265 kW) at 2,000 rpm |
| Net Power (SAE J1349) | 351 HP (262 kW) at 2,000 rpm |
| Max. Power | 380 HP (283 kW) at 1,700 rpm |
| Peak Gross Torque (SAE J1995) | 1,370 lb.ft (1,857 N-m) at 1,400 rpm |
| Displacement | 11.8 l (720 in ³) |

*Stage V & Tier 4 Final Certified

TRANSMISSION

| | | |
|--------------------------|---------------------------------------|---------------------------------|
| Torque Converter Type | 3-elements, single-stage single-phase | |
| Tire | 29.5 R25, ★★, L3 | |
| Travel Speed, km/h (mph) | 4 Speed T/M | 5 Speed T/M with lock up clutch |
| | 1st | 6.2 (3.9) |
| Forward | 2nd | 11.6 (7.2) |
| | 3rd | 18.2 (11.3) |
| | 4th | 36.5 (22.7) |
| | 5th | - |
| | Reverse | 40.0 (24.9) |
| Reverse | 1st | 6.2 (3.9) |
| | 2nd | 11.6 (7.2) |
| | 3rd | 25.3 (15.7) |

• 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 | 27.0 |

HYDRAULIC SYSTEM

| | | |
|-----------------|---|---------------------------------------|
| Type | Load sensing hydraulic system | |
| Pump | Variable displacement piston pump 462 lpm | |
| 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 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 | 2-180 × 885 mm (2-7.1" × 2' 10.8") |
| | HL970A Tilt | 1-200 × 550 mm (1-7.9" × 1' 9.7") |
| | HL970A XT Tilt | 1-200 × 545 mm (1-7.9" × 1' 9.5") |
| Cycle Time | Raise from Carry Position : 6.6 Sec. | |
| | Dump, at maximum raise : 1.5 Sec. | |
| | Lower, empty, float down : 4.8 Sec. | |
| | Total : 12.9 Sec. | |

* Hyundai Bio Hydraulic Oil (HBHO) available

OVERVIEW

| Description | HL980A | HL980A XT |
|-----------------------|-----------------------|---|
| Operating Weight | 31,352 kg (69,120 lb) | 31,500 kg (69,450 lb) |
| Bucket Capacity | Heaped | 5.6 m ³ (7.3 yd ³) |
| | Struck | 4.8 m ³ (6.3 yd ³) |
| Breakout Force-Bucket | 24,670 kg (54,390 lb) | 24,400 kg (53,795 lb) |
| Tipping Load | Straight | 24,446 kg (53,895 lb) |
| | Full Turn | 21,271 kg (46,895 lb) |

TIRES

| | |
|-----------------|-------------------------------|
| Type | Tubeless, loader design tires |
| Standard | 29.5R25 L3 ★★ |
| Options Include | 29.5-25 22PR L3 |
| | 29.5-25 28PR L5 |
| | 29.5R25 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

| | |
|-----------------|--|
| Type | Load sensing hydrostatic articulated steering |
| Pump | Variable displacement piston pump, 242 lpm |
| System Pressure | 210 bar (3,046 psi) |
| Cylinder | Double acting 2-95 × 468 mm (2-3.7" × 1' 6.4") |
| 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 | 430.0 liters (113.6 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 | 55.5 liters (14.7 US gal) |
| Front Axle | 64.0 liters (16.9 US gal) |
| Rear Axle | 64.0 liters (16.9 US gal) |
| Hydraulic Tank | 184.0 liters (40.5 US gal) |
| Hydraulic System (Including Tank) | 340.0 liters (74.8 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) |

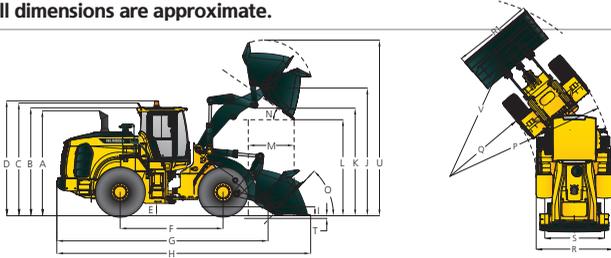
* Distance of 15 m (49.2 ft), moving forward in second gear ratio.

CABIN

ROPS / FOPS Cabin Meet ISO 3471 and ISO 3449

HL980A DIMENSIONS

All dimensions are approximate.



Unit : mm (ftn)

| Description | HL980A | HL980AXT |
|---|-----------------|-----------------|
| A Height to Top of Exhaust Pipe | 3,715 (12' 2") | 3,715 (12' 2") |
| B Height to Top of Cabin | 3,865 (12' 8") | 3,865 (12' 8") |
| C Height to Top of Product Link Antenna | 3,905 (12' 10") | 3,905 (12' 10") |
| D Height to Top of Warning Beacon | 3,995 (13' 1") | 3,995 (13' 1") |
| E Ground Clearance | 495 (1' 7") | 495 (1' 7") |
| F Wheelbase | 3,700 (12' 2") | 3,700 (12' 2") |
| G Overall Length (without Bucket) | 8,175 (26' 10") | 8,495 (27' 10") |
| H Shipping Length (with Bucket Level on Ground) | 9,610 (31' 6") | 9,930 (32' 7") |
| I Hinge Pin Height at Carry Position | 535 (1' 9") | 630 (2' 1") |
| J Hinge Pin Height at Maximum Lift | 4,615 (15' 2") | 4,935 (16' 2") |

| Description | HL980A | HL980AXT |
|--|-----------------|-----------------|
| K Lift Arm Clearance at Maximum Lift | 3,870 (12' 8") | 4,190 (13' 9") |
| L Dump Clearance at Maximum Lift and 45° Discharge | 3,300 (10' 10") | 3,620 (11' 11") |
| M Reach at Maximum Lift and 45° Discharge | 1,490 (4' 11") | 1,525 (5' 0") |
| N Dump Angle at Maximum Lift and Dump (on Stops) | 50 | 50 |
| O Roll Back Angle | Ground | 42 |
| | Carry | 47 |
| P Clearance Circle (Diameter) to Outside of Tires | 13,615 (44' 8") | 13,615 (44' 8") |
| Q Clearance Circle (Diameter) to Inside of Tires | 7,110 (23' 4") | 7,110 (23' 4") |
| R Width Over Tires (Unloaded) | 3,190 (10' 6") | 3,190 (10' 6") |
| R1 Overall Width (with bucket) | 2,740 (9') | 2,740 (9') |
| S Tread Width | 2,440 (8' 0") | 2,440 (8' 0") |

HL980A OPERATING SPECIFICATIONS WITH BUCKETS

| Linkage Bucket Type | | Standard Linkage General Purpose - Pin On | | | | | | High Lift Linkage Change |
|---|------------|---|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| Edge Type | | Bolt-On Cutting Edges | 2 Piece Tooth | 2 Piece Tooth & Seg | Bolt-On Cutting Edges | 2 Piece Tooth | Spade Nose Rock | |
| Capacity - Rated | m³ (yd³) | 5.60 m³ (7.30 yd³) | 5.40 m³ (7.10 yd³) | 5.60 m³ (7.30 yd³) | 6.30 m³ (8.20 yd³) | 6.10 m³ (8.00 yd³) | 5.00 m³ (6.50 yd³) | |
| Capacity - Rated at 110% Fill Factor | m³ (yd³) | 6.16 m³ (8.10 yd³) | 5.94 m³ (7.80 yd³) | 6.16 m³ (8.10 yd³) | 6.93 m³ (9.10 yd³) | 6.71 m³ (8.80 yd³) | 5.50 m³ (7.20 yd³) | |
| Width | mm (ft/in) | 3,450 mm (11' 4" ft/in) | 3,500 mm (11' 6" ft/in) | 3,500 mm (11' 6" ft/in) | 3,450 mm (11' 4" ft/in) | 3,500 mm (11' 6" ft/in) | 3,490 mm (11' 5" ft/in) | |
| Dump Clearance at Maximum Lift and 45° Discharge | mm (ft/in) | 3,300 mm (10' 10" ft/in) | 3,150 mm (10' 4" ft/in) | 3,150 mm (10' 4" ft/in) | 3,215 mm (10' 7" ft/in) | 3,065 mm (10' 1" ft/in) | 3,035 mm (9' 11" ft/in) | |
| Reach at Maximum Lift and 45° Discharge | mm (ft/in) | 1,490 mm (4' 11" ft/in) | 1,610 mm (5' 3" ft/in) | 1,610 mm (5' 3" ft/in) | 1,575 mm (5' 2" ft/in) | 1,695 mm (5' 7" ft/in) | 1,685 mm (5' 6" ft/in) | |
| Digging Depth | mm (ft/in) | 105 mm (0' 4" ft/in) | 125 mm (0' 5" ft/in) | 125 mm (0' 5" ft/in) | 105 mm (0' 4" ft/in) | 125 mm (0' 5" ft/in) | 155 mm (0' 6" ft/in) | |
| T Shipping Length (with Bucket) | mm (ft/in) | 9,610 mm (31' 6" ft/in) | 9,800 mm (32' 2" ft/in) | 9,800 mm (32' 2" ft/in) | 9,730 mm (31' 11" ft/in) | 9,920 mm (32' 7" ft/in) | 9,935 mm (32' 7" ft/in) | |
| U Overall Height with Bucket at Maximum Lift | mm (ft/in) | 6,430 mm (21' 1" ft/in) | 6,430 mm (21' 1" ft/in) | 6,430 mm (21' 1" ft/in) | 6,580 mm (21' 7" ft/in) | 6,580 mm (21' 7" ft/in) | 6,340 mm (20' 10" ft/in) | |
| V Loader Clearance Circle with Bucket at Carry Position | mm (ft/in) | 15,270 mm (50' 1" ft/in) | 15,450 mm (50' 8" ft/in) | 15,450 mm (50' 8" ft/in) | 15,340 mm (50' 4" ft/in) | 15,520 mm (50' 11" ft/in) | 15,320 mm (50' 3" ft/in) | |
| Static Tipping Load, Straight (No Tire Deflection) | kg (lb) | 23,100 kg (50,930 lb) | 23,500 kg (51,810 lb) | 22,900 kg (50,490 lb) | 22,800 kg (50,270 lb) | 23,200 kg (51,150 lb) | 22,350 kg (49,275 lb) | |
| Static Tipping Load, Articulated (No Tire Deflection) | kg (lb) | 20,100 kg (44,315 lb) | 20,450 kg (45,085 lb) | 19,900 kg (43,875 lb) | 19,850 kg (43,765 lb) | 20,200 kg (44,535 lb) | 19,500 kg (42,995 lb) | |
| Breakout Force | kg (lb) | 24,670 kg (54,390 lb) | 26,200 kg (57,765 lb) | 24,670 kg (54,390 lb) | 22,800 kg (50,270 lb) | 24,090 kg (53,110 lb) | 22,620 kg (49,870 lb) | |
| Operating Weight* | kg (lb) | 30,800 kg (67,905 lb) | 30,635 kg (67,540 lb) | 30,980 kg (68,300 lb) | 30,975 kg (68,290 lb) | 30,810 kg (67,925 lb) | 31,415 kg (69,260 lb) | |

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

HL980A / HL980A XT 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 | 2.3 | 2.4 |
| Cutting Edge | 5.6 | | | | 6.4 m³ | | | | | | | | | | 5.3 m³ |
| 2-Bolt on Tooth | 5.4 | | | | | 6.2 m³ | | | | | | | | | 5.1 m³ |
| 2-Bolt on Tooth & Segment | 5.6 | | | | 6.4 m³ | | | | | | | | | | 5.3 m³ |
| Cutting Edge | 6.3 | 7.2 m³ | | | | | | | 6.0 m³ | | | | | | |
| 2-Bolt on Tooth | 6.1 | | | 7.0 m³ | | | | | | 5.8 m³ | | | | | |
| Spade Nose Rock | 5.0 | | | 5.8 m³ | | | | | | | | | | 4.8 m³ | |
| High Lift Arm - General Purpose | | | | | | | | | | | | | | | |
| Cutting Edge | 5.6 | | | | 6.4 m³ | | | | | | | | | | 5.3 m³ |
| 2-Bolt on Tooth | 5.4 | | | | | 6.2 m³ | | | | | | | | | 5.1 m³ |
| 2-Bolt on Tooth & Segment | 5.6 | | | | 6.4 m³ | | | | | | | | | | 5.3 m³ |
| Cutting Edge | 6.3 | 7.2 m³ | | | | | | | 6.0 m³ | | | | | | |
| 2-Bolt on Tooth | 6.1 | | | 7.0 m³ | | | | | | 5.8 m³ | | | | | |
| Spade Nose Rock | 5.0 | | | 5.8 m³ | | | | | | | | | | 4.8 m³ | |

115% 100% 95%

| ENGINE | STD | OPT |
|--|-----|-----|
| ENGINE, CUMMINS, X12 | | |
| 3 Stage air precleaner | • | |
| Alternator, 95A | • | |
| Fuel warmer | • | |
| Engine oil level dipstick gauge | • | |
| Fuel / water separator | • | |
| WGT (Waste Gate Turbo) | • | |
| CLEAN EMISSION MODULE | | |
| DOC, DPF and SCR | • | |
| Active Emission Regeneration (No Manual Regeneration Required) | | |
| Stage V Certified Emissions | • | |
| EGR Free | • | |
| Automatic Regeneration | • | |
| COOLING SYSTEM | | |
| Antifreeze | • | |
| Auto Reversing Fan (adjustable Time/ Interval Frequencies) w/ 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 kick-down features included | • | |
| Transmission oil sight level | • | |
| Wide Fin Transmission Oil Cooler | • | |
| AXLE | | |
| Conventional (Rear) | • | |
| Hydraulic lock differential (Front) | • | |
| Limited slip differential (Front / Rear) | | • |
| BRAKE | | |
| Parking brake | • | |
| Service brake (Enclosed wet-disc) | • | |
| TIRES | | |
| 29.5 R25 L3 ★★ | • | |
| 29.5-25 22PR L3 | | • |
| 29.5-25 22PR L5 | | • |
| 29.5 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 | • | |
| CAB & 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 | • | |
| Seat belt ON/OFF | • | |
| Transmission error | • | |
| Transmission oil temperature | • | |

| CAB & INTERIOR | STD | OPT |
|---|-----|-----|
| GAUGES | | |
| Diesel Exhaust Fluid (DEF) level | • | |
| Engine coolant temperature | • | |
| Fuel level | • | |
| Horn, electric | • | |
| Speedometer | • | |
| Transmission oil temperature | • | |
| INDICATOR LIGHTS | | |
| Clutch Cut Off | • | |
| Differential Lock | • | |
| Engine auto stop | • | |
| FNR | • | |
| High beam | • | |
| Parking brake | • | |
| Pilot cut off | • | |
| Ride control | • | |
| Seat belt 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 | | |
| 850CCA, 12V, 2PCS | • | |
| LIGHTING SYSTEM | | |
| Brake lights(Counterweight) | • | |
| LED dome light | • | |
| 2 Head lights on front tower | • | |
| 2 Head lights (LED) on front tower | | • |
| 2 Stop and tail lights | • | |
| 4 Turn signals | • | |
| 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 | • | |
| SWITCHES | | |
| Battery master switch | • | |
| Differential Lock | • | |
| Emergency steering | | • |
| FNR shifter | • | |
| Hazard | • | |
| Parking | • | |
| Pilot cut off | • | |
| 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 | | • |
| CAB (SOUND SUPPRESSED) | | |
| 24V to 12V DC converter (20A) | • | |
| Coat hook | • | |
| Magazine pocket | • | |
| One door cab | • | |
| Radio / USB player | • | |

| CAB & INTERIOR | STD | OPT |
|---|-----|-----|
| CAB(SOUND SUPPRESSED) | | |
| 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 & heater | • | |
| Defroster | • | |
| Intermittent wiper and washer, front and rear | • | |
| SEAT | | |
| 3" Retractable seat belt & adjustable air suspension (Heated) | • | |
| PERSONAL STORAGE SPACE | | |
| Console box | • | |
| Holder, can and cup | • | |
| PEDALS | | |
| Accel pedal without ECO switch | • | |
| Dual-brake pedal | | • |
| One accelerator pedal | • | |
| One brake pedal | • | |
| SAFETY | | |
| Alarm, back-up | • | |
| Boom safety lock | | • |
| Emergency steering | | • |
| Emergency stop | • | |
| Fire extinguisher | | • |
| OBJECT DETECTION | | |
| AAVM - All Around View Monitoring | | • |
| IMOD (Intelligent Moving Object Detection) | | • |
| RADAR + Secondary Mornitor | | • |
| OTHERS | | |
| 2nd Monitor | | • |
| 3 Spool MCV | • | |
| 5 speed T/M with lockup clutch | | • |
| Air Compressor | | • |
| Auto Engine Shut Down | • | |
| Auto Grease System | | • |
| Articulation Locking Bar | • | |
| Heavy Counterweight | • | |
| Hi-Mate, Satellite | | • |
| ISO Quick Coupler | • | |
| LED Beacon Lamp | | • |
| License Plate & 10W 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 | • | |
| 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.



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