

SPECIFICATIONS

HX160L

Tier 4 Final Engine

Net Power

SAE J1349 / 128 HP
(96 kW) at 2,050 rpm

Bucket Range

0.39 m³ - 1.05 m³
(0.51 yd³ - 1.37 yd³)

Standard Bucket

0.70 m³ (0.92 yd³)

Operating Weight

18,830 kg (41,513 lb)

| ENGINE | | |
|---------------------------|---|-------------------------------|
| Make / model | Perkins 1204F | |
| Type | Water cooled, 4-cycle diesel, 4 cylinders in line, direct injection, turbo-charged and air cooled | |
| Rated flywheel horsepower | SAE J1995 (gross) | 137 HP (102.1 kW) / 2,050 rpm |
| | J1349 (net) | 128 HP (96 kW) / 2,050 rpm |
| Max. torque | 57.1 kgf.m (413 lbf.ft) @ 1,400 rpm | |
| Bore x stroke | 105 x 127 mm (4.13" x 5") | |
| Piston displacement | 4,400 cc (268.5 in ³) | |
| Batteries | 2 x 12V x 100 Ah | |
| Starting motor | 24 V - 4.5 kW | |
| Alternator | 24 V - 100 Amp | |

HYDRAULIC SYSTEM

| MAIN PUMP | |
|--|--|
| Type | Two variable displacement piston pumps |
| Max. flow | 2 x 164 ℓ/min (43.3 gpm) |
| Sub-pump for pilot circuit (Gear Pump) | 31.5 ℓ/min (8.3 gpm) |

CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

| HYDRAULIC MOTORS | |
|------------------|--|
| Travel | Two-speed axial pistons motor with brake valve and parking brake |
| Swing | Axial piston motor with automatic brake |

RELIEF VALVE SETTING

| | |
|---------------------------------|-------------------------------------|
| Implement circuits | 350 kgf/cm ² (5,690 psi) |
| Travel | 350 kgf/cm ² (5,690 psi) |
| Power boost (boom, arm, bucket) | 380 kgf/cm ² (5,400 psi) |
| Swing circuit | 285 kgf/cm ² (4,054 psi) |
| Pilot circuit | 40 kgf/cm ² (570 psi) |
| Service valve | Installed |

HYDRAULIC CYLINDERS

| | |
|--------------------------------|---|
| No. of cylinders bore X stroke | Boom: 2-115 x 1,090 mm (4.5" x 42.9") |
| | Arm: 1-120 x 1,355 mm (4.7" x 53.3") |
| | Bucket: 1-110 x 995 mm (4.3" x 39.2") |
| | Blade: 2-110 x 320 mm (4.3" x 12.6") |
| | 2PCS 1st: 2-115 x 960 mm (4.5" x 37.8") |
| | 2nd: 1-160 x 650 mm (6.3" x 25.6") |

DRIVES & BRAKES

| | |
|--------------------------------|---|
| Drive method | Fully hydrostatic type |
| Drive motor | Axial piston motor, in-shoe design |
| Reduction system | Planetary reduction gear |
| Max. drawbar pull | 17,000 kgf (37,500 lbf) |
| Max. travel speed (high / low) | 5.3 km/hr (3.3 mph) / 3.2 km/hr (2.0 mph) |
| Gradeability | 35° (70%) |
| Parking brake | Multi wet disc brake |

CONTROL

Pilot pressure-operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

| | |
|------------------------|---|
| Pilot control | Two joysticks with one safety lever (LH): Swing and arm (RH): Boom and bucket (ISO) |
| Traveling and steering | Two levers with pedals |
| Engine throttle | Electric, dial type |



OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,100 mm (16' 9") boom, 3,100 mm (10' 2") arm, SAE heaped 0.70 m³ (0.92 yd³) bucket, lubricant, coolant, full fuel tank, max 3,250 kg (7,165 lb) counterweight and all other standard equipment.

| OPERATING WEIGHT | | | | |
|------------------|---------------|------------------|-----------------|-----------------------------|
| Shoes | | Operating weight | | Ground pressure |
| Type | Width mm (in) | kg (lb) | | kgf / cm ² (psi) |
| Triple grouser | 600 (24") | HX160L | 18,830 (41,513) | 0.46 (6.51) |
| | 700 (28") | HX160L | 19,084 (42,073) | 0.40 (5.62) |

SWING SYSTEM

| | |
|---------------------------|--------------------------|
| Swing motor | Axial pistons motor |
| Swing reduction | Planetary gear reduction |
| Swing bearing lubrication | Grease-bathed |
| Swing brake | Multi wet disc brake |
| Swing speed | 10.3 rpm |

SERVICE REFILL CAPACITIES

| | liters | US gal |
|-----------------------------------|--------|--------|
| Refilling | | |
| Fuel tank | 290 | 76.6 |
| Engine coolant | 27.5 | 7.3 |
| Engine oil | 10.5 | 2.8 |
| Swing device | 6.2 | 1.6 |
| Final drive (each) | 3.0 | 0.8 |
| Hydraulic system (including tank) | 240 | 63.4 |
| Hydraulic tank | 125 | 33.0 |
| DEF/AdBlue® tank | 19 | 5 |

UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

| | |
|-------------------------------------|---------------------|
| Center frame | X - leg type |
| Track frame | Pentagonal box type |
| No. of shoes on each side | 49 EA |
| No. of carrier rollers on each side | 2 EA |
| No. of track rollers on each side | 7 EA |
| No. of rail guards on each side | 1 EA |

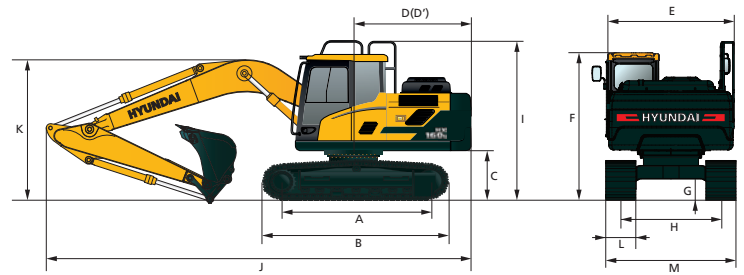
SPECIFICATIONS HX160L

Tier 4 Final Engine

HX160L DIMENSIONS

Unit: mm (ft-in)

5.1 m (16' 9") boom and 2.2 m (7' 3"), 2.6 m (8' 6"), 3.1 m (10' 2") arm



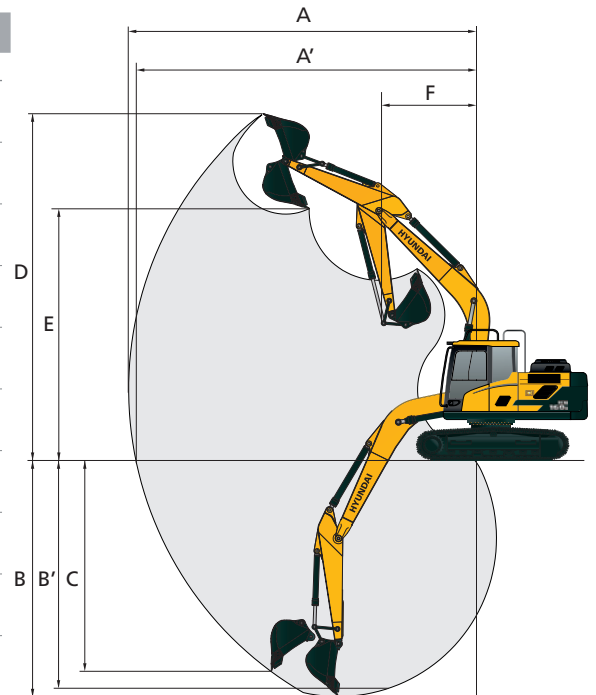
| | | |
|----|-----------------------------------|-----------------|
| A | Tumbler distance | 3,170 (10' 5") |
| B | Overall length of crawler | 3,926 (12' 11") |
| C | Ground clearance of counterweight | 1,055 (3' 6") |
| D | Tail swing radius | 2,530 (8' 4") |
| D' | Rear-end length | 2,480 (8' 2") |
| E | Overall width of upper structure | 2,475 (8' 1") |
| F | Overall height of cab | 2,980 (9' 9") |
| G | Min. ground clearance | 460 (1' 6") |
| H | Track gauge | 1,990 (6' 6") |
| I | Overall height of guardrail | 3,220 (10' 6") |

| | |
|--------------------------|--|
| Boom length | 5,100 (16' 9") |
| Arm length | 2,200 (7' 3") 2,600 (8' 6") 3,100 (10' 2") |
| J Overall length | 8,660 (28' 5") 8,650 (28' 5") 8,650 (28' 5") |
| K Overall height of boom | 3,010 (9' 11") 2,990 (9' 10") 3,150 (10' 4") |
| L Track shoe width | 500 (20") 600 (24") 700 (28") |
| M Overall width | 2,490 (8' 2") 2,590 (8' 6") 2,690 (8' 10") |

HX160L WORKING RANGE

Unit : mm (ft-in)

| | |
|------------------------------------|--|
| Boom length | 5,100 (16' 9") |
| Arm length | 2,200 (7' 3") 2,600 (8' 6") 3,100 (10' 2") |
| A Max. digging reach | 8,690 (28' 6") 9,020 (29' 7") 9,450 (31' 0") |
| A' Max. digging reach on ground | 8,530 (28' 0") 8,860 (29' 1") 9,300 (30' 6") |
| B Max. digging depth | 5,660 (18' 7") 6,060 (19' 11") 6,560 (21' 6") |
| B' Max. digging depth (8' level) | 5,430 (17' 10") 5,850 (19' 2") 6,370 (20' 11") |
| C Max. vertical wall digging depth | 5,120 (16' 10") 5,380 (17' 8") 5,710 (18' 9") |
| D Max. digging height | 8,750 (28' 8") 8,840 (29' 0") 8,980 (29' 6") |
| E Max. dumping height | 6,110 (20' 1") 6,220 (20' 5") 6,390 (21' 0") |
| F Min. swing radius | 3,180 (10' 5") 3,170 (10' 5") 3,170 (10' 5") |



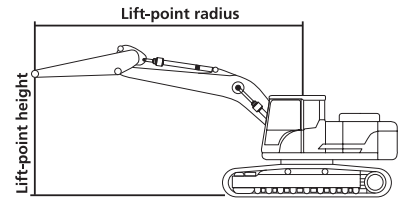
DIGGING FORCE

| Arm | Length | mm (ft-in) | 2,200 (7' 3") | 2,600 (8' 6") | 3,100 (10' 2") | [Power Boost] |
|----------------------|--------|------------|-----------------|-----------------|-----------------|---------------|
| | Weight | kg (lb) | 750 (1,560) | 810 (1,790) | 890 (1,960) | |
| Bucket digging force | SAE | kN | 107.9 [117.2] | 107.9 [117.2] | 107.9 [117.2] | |
| | | kgf | 11,000 [11,940] | 11,000 [11,940] | 11,000 [11,940] | |
| | | lbf | 24,250 [26,330] | 24,250 [26,330] | 24,250 [26,330] | |
| | ISO | kN | 123.6 [134.2] | 123.6 [134.2] | 123.6 [134.2] | |
| | | kgf | 12,600 [13,680] | 12,600 [13,680] | 12,600 [13,680] | |
| | | lbf | 27,780 [30,160] | 27,780 [30,160] | 27,780 [30,160] | |
| Arm crowd force | SAE | kN | 87.2 [94.7] | 77.3 [83.9] | 69.0 [74.9] | |
| | | kgf | 8,890 [9,650] | 7,880 [8,560] | 7,030 [7,630] | |
| | | lbf | 19,600 [21,280] | 17,370 [18,860] | 15,500 [16,830] | |
| | ISO | kN | 91.0 [98.8] | 80.3 [87.2] | 71.4 [77.5] | |
| | | kgf | 9,280 [10,080] | 8,190 [8,890] | 7,280 [7,900] | |
| | | lbf | 20,460 [22,210] | 18,060 [19,600] | 16,050 [17,430] | |

Note : Arm weight includes bucket cylinder, linkage, and pin

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Lifting Capacity

Boom: 5,100 mm (16' 9")

Arm: 3,100 mm (10' 2")

Bucket: 0.70 m³ (0.92 yd³) SAE heaped

Shoe: 600 mm (24") triple grouser, CWT 3,250 kg (7,165 lb)

Capacities based on North American Standard Configuration in accordance with ISO condition 2 standard.



Rating over front



Rating over side or 360 degree

| Lift-point height m (ft) | | Lift-point radius | | | | | | | | | | At max. reach | | |
|-----------------------------|----|-------------------|----------------|----------------|----------------|-----------------|---------------|-----------------|--------------|-----------------|--------------|----------------|---------------|---------------|
| | | 1.5 m (4.9 ft) | | 3.0 m (9.8 ft) | | 4.5 m (14.8 ft) | | 6.0 m (19.7 ft) | | 7.5 m (24.6 ft) | | Capacity | | Reach |
| | | | | | | | | | | | | | | m (ft) |
| 6.0 m (19.7 ft) | kg | | | | | | | *3,810 | 3,790 | | | *2,850 | *2,580 | 6.78 |
| | lb | | | | | | | *8,400 | 8,360 | | | *6,290 | *6,290 | (22.2) |
| 4.5 m (14.8 ft) | kg | | | | | | | *4,360 | 3,730 | *2,980 | 2,590 | *2,760 | 2,560 | 7.55 |
| | lb | | | | | | | *9,600 | 8,210 | *6,560 | 5,700 | *6,080 | 5,630 | (24.8) |
| 3.0 m (9.8 ft) | kg | | | *9,340 | *9,340 | *6,570 | 5,490 | *5,470 | 3,580 | 3,910 | 2,540 | *2,800 | 2,300 | 7.97 |
| | lb | | | *20,590 | *20,590 | *14,490 | 12,110 | *12,070 | 7,900 | 8,620 | 5,600 | *6,180 | 5,060 | (26.1) |
| 1.5 m (4.9 ft) | kg | | | *7,940 | *7,940 | *8,260 | 5,130 | 5,350 | 3,410 | 3,830 | 2,460 | *2,970 | 2,200 | 8.09 |
| | lb | | | *17,500 | *17,500 | *18,200 | 11,300 | 11,790 | 7,530 | 8,440 | 5,430 | *6,560 | 4,840 | (26.5) |
| Ground Line | kg | | | *7,130 | *7,130 | 8,040 | 4,870 | 5,200 | 3,280 | 3,760 | 2,400 | *3,310 | 2,230 | 7.91 |
| | lb | | | *15,710 | *15,710 | 17,720 | 10,740 | 11,460 | 7,230 | 8,290 | 5,290 | *7,300 | 4,910 | (26.0) |
| -1.5 m (-4.9 ft) | kg | *5,530 | *5,530 | *10,100 | 8,740 | 7,910 | 4,760 | 5,120 | 3,210 | | | 3,780 | 2,410 | 7.43 |
| | lb | *12,200 | *12,200 | *22,280 | 19,280 | 17,440 | 10,490 | 11,280 | 7,070 | | | 8,340 | 5,310 | (24.4) |
| -3.0 m (-9.8 ft) | kg | *9,310 | *9,310 | *13,130 | 8,830 | 7,920 | 4,770 | 5,130 | 3,220 | | | 4,520 | 2,860 | 6.57 |
| | lb | *20,530 | *20,530 | *28,950 | 19,470 | 17,460 | 10,520 | 11,310 | 7,090 | | | 9,970 | 6,310 | (21.6) |
| -4.5 m (-14.8 ft) | kg | | | *10,050 | 9,080 | *6880 | 4,910 | | | | | *5,640 | 4,110 | 5.14 |
| | lb | | | *22,160 | 20,010 | *15,170 | 10,830 | | | | | *12,430 | 9,050 | (16.9) |

NOTES:

- Lifting capacities are based on ISO 10567.
- Lifting capacity of the HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

- The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- (*) indicates load limited by hydraulic capacity.



SPECIFICATIONS HX160L

Tier 4 Final Engine

| ENGINE | STD | OPT |
|---|-----|-----|
| Perkins 1204F Engine | • | |
| HYDRAULIC SYSTEM | | |
| Intelligent Power Control (IPC) | | |
| 3-power mode, 2-work mode, user mode | • | |
| Variable power control | • | |
| Pump flow control | • | |
| Attachment mode flow control | • | |
| Engine auto idle | • | |
| Engine auto shutdown control | | • |
| Electronic fan control | • | |
| CAB & INTERIOR | | |
| ISO standard cabin | | |
| Rise-up type windshield wiper | • | |
| Radio / USB player | • | |
| Bluetooth / hands-free mobile phone system with USB | • | |
| Miracast | • | |
| 24V DC to 12V DC converter | • | |
| Electric horn | • | |
| All-weather steel cab with 360° visibility | • | |
| Safety glass windows | • | |
| Sliding fold-in front window | • | |
| Sliding side window (LH) | • | |
| Lockable door | • | |
| Hot and cool box | • | |
| Storage compartment and ashtray | • | |
| Transparent cabin roof cover | • | |
| Sun visor | • | |
| Door and cab locks, one key | • | |
| Mechanical suspension seat with heater | • | |
| Pilot-operated adjustable joystick | • | |
| Console box height adjust system | • | |
| Cabin lights | • | |
| Cabin front window rain guard | | • |
| Cabin roof-steel cover | | • |
| Automatic climate control | | |
| Air conditioner and heater | • | |
| Defroster | • | |
| Starting aid (air grid heater) for cold weather | • | |
| Centralized monitoring | | |
| 8" LCD display | • | |
| Engine speed or trip meter / accel. | • | |
| Engine coolant temperature gauge | • | |
| Max. power | • | |
| Low speed / high speed | • | |
| Auto idle | • | |
| Overload | | • |
| Check engine | • | |
| Air cleaner clogging | • | |
| Indicators | • | |
| ECO gauges | • | |
| Fuel level gauge | • | |
| Hydraulic oil temperature gauge | • | |
| Fuel warmer | • | |
| Warnings | • | |
| Communication error | • | |
| Low battery | • | |
| Clock | • | |

| CAB & INTERIOR | STD | OPT |
|---|---------------------|-----|
| Seat | | |
| Adjustable air suspension seat with heater | • | |
| Cabin FOG/FOPS | | |
| FOG ISO 10262 Level 2 | Front and top guard | • |
| (FOPS ISO 3449 Level 2) | Top guard | • |
| Cabin ROPS | | |
| ROPS ISO 12117-2 | • | |
| SAFETY | | |
| Battery master switch | • | |
| Rearview camera | • | |
| AAVM (All-Around View Monitoring) | | • |
| Four front working lights (2 boom mounted, 2 front frame mounted) | • | |
| Travel alarm | • | |
| Rear work lamp | | • |
| Beacon lamp | | • |
| Automatic swing brake | • | |
| Boom holding system | • | |
| Arm holding system | • | |
| Safety lock valve for boom cylinder with overload warning device | | • |
| Safety lock valve for arm cylinder | | • |
| Swing lock system | | • |
| Three outside rearview mirrors | • | |
| OTHER | | |
| Booms | | |
| 5.1 m, 16' 9" | • | |
| 5.1 m, 16' 9" 2-piece | | • |
| Arms | | |
| 2.2 m, 7' 3" | | • |
| 2.6 m, 8' 6" | | • |
| 3.1 m, 10' 2" | • | |
| Removable clean-out dust net for cooler | • | |
| Removable reservoir tank | • | |
| Fuel pre-filter | • | |
| Fuel warmer | | • |
| Self-diagnostics system | • | |
| Hi-Mate Remote Management System | Mobile Satellite | • |
| Batteries (2 x 12V x 100 Ah) | • | |
| Fuel-filler pump (50 l/min / 13 gpm) | | • |
| Single-acting piping kit (breaker, etc.) | | • |
| Double-acting piping kit (clamshell, etc.) | • | |
| Rotating piping kit | | • |
| Quick coupler piping | • | |
| Quick coupler | | • |
| Boom float control | | • |
| Pilot accumulator | • | |
| Pattern change valve (SAE and ISO) | • | |
| Fine swing control system | | • |
| Tool kit | | • |
| UNDERCARRIAGE | | |
| Lower frame under cover (additional) | | • |
| Lower frame under cover (normal) | • | |
| Track shoes | | |
| Triple grouser shoes (600 mm, 24") | • | |
| Triple grouser shoes (700 mm, 28") | | • |
| Triple grouser shoes (500 mm, 20") | | • |
| Track rail guard | • | |
| Full track rail guard | | • |

NOTE: Standard and optional equipment may vary. Materials and specifications are subject to change without advance notice. Contact your Hyundai dealer for more information.

PLEASE CONTACT



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