# SPECIFICATIONS
# HX220L

Tier 4 Final Engine

**Net Power**
SAE J1349 / 173 HP
(129 kW) at 1,950 rpm

**Bucket Range**
0.52 m³ - 1.34 m³
0.68 yd³ - 1.75 yd³

**Standard Bucket**
0.92 m³ 1.2 yd³

**Operating Weight**
23,360 kg (51,500 lb)


## ENGINE

| | | | |
|---|---|---|---|
| Make / model | | | Cummins QSB6.7 |
| Type | | | 4-cycle turbocharged, charge air cooled, diesel engine |
| Rated flywheel horsepower | SAE | J1995 (gross) | 182.6 HP (136 kW) at 1,950 rpm |
| | | J1349 (net) | 173 HP (129 kW) at 1,950 rpm |
| Max. torque | | | 85.7 kgf·m (620 lbf·ft) @ 1,500 rpm |
| Bore × stroke | | | 107 × 124 mm (4.2"× 4.9") |
| Piston displacement | | | 6,700 cc (409 in³) |
| Batteries | | | 2 × 12 V × 100 Ah |
| Starting motor | | | 24 V - 4.8 kW |
| Alternator | | | 24 V - 95 Amp |

## HYDRAULIC SYSTEM

### MAIN PUMP

| | |
|---|---|
| Type | Variable displacement tandem axis piston pumps |
| Max. flow | 2 × 222 ℓ/min (58.6 gpm) |
| Sub-pump for pilot circuit (Gear Pump) | 28.5 ℓ/min (7.5 gpm) |

## CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

### HYDRAULIC MOTORS

| | |
|---|---|
| Travel | Two-speed axial piston motor with brake motor with automatic brake |
| Swing | Axial piston motor with automatic brake |

### RELIEF VALVE SETTING

| | |
|---|---|
| Implement circuits | 400 kgf/cm² (5,690 psi) |
| Travel | 350 kgf/cm² (4,980 psi) |
| Power boost (boom, arm, bucket) | 380 kgf/cm² (5,400 psi) |
| Swing circuit | 265 kgf/cm² (3,770 psi) |
| Pilot circuit | 40 kgf/cm² (570 psi) |
| Service valve | Installed |

### HYDRAULIC CYLINDERS

| | |
|---|---|
| No. of cylinders bore X stroke | Boom: 120 x 1,290 mm (4.7 x 50.8″) |
| | Arm: 140 x 1,570 mm (5.5 x 59.4″) |
| | Bucket: 120 x 1,055 mm (4.7 x 41.5″) |

## DRIVES & BRAKES

| | |
|---|---|
| Drive method | Fully hydrostatic type |
| Drive motor | Axial piston motor, in-shoe design |
| Reduction system | Planetary reduction gear |
| Max. drawbar pull | 20,200 kgf (44,530 lbf) |
| Max. travel speed (high / low) | 5.5 km / hr (3.41 mph) / 3.6 km / hr (2.23mph) |
| Gradeability | 35° (70%) |
| Parking brake | Multi wet disc brake |

## CONTROL

Pilot pressure operated joysticks provide very-low-effort 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 5,680 mm (18' 8") boom, 2,920 mm (9' 7") arm, SAE heaped 0.92 m³ (1.20 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, max 4,500 kg (9,920 lb) counterweight and all other standard equipment.

### OPERATING WEIGHT

| Shoes | | | Operating weight | Ground pressure |
|---|---|---|---|---|
| Type | Width mm (in) | | kg (lb) | kg f / cm² (psi) |
| Triple grouser | 700 (28") | HX220L | 23,080 (50,883) | 0.42 (6.01) |
| | 800 (32") | HX220L | 23,360 (51,500) | 0.37 (5.28) |
| | 900 (36") | HX220L | 23,640 (52,117) | 0.34 (4.84) |

## SWING SYSTEM

| | |
|---|---|
| Swing motor | Fixed displacement axial piston motor |
| Swing reduction | Planetary gear reduction |
| Swing bearing lubrication | Grease-bathed |
| Swing brake | Multi wet disc brake |
| Swing speed | 10.8 rpm |

## SERVICE REFILL CAPACITIES

| Refilling | liters | US gal |
|---|---|---|
| Fuel tank | 400 | 106 |
| Engine coolant | 40 | 10.6 |
| Engine oil | 23 | 6.1 |
| Swing device | 6.2 | 1.64 |
| Final drive (each) | 4.5 | 1.2 |
| Hydraulic system (including tank) | 275 | 72.6 |
| Hydraulic tank | 160 | 42.3 |
| DEF/AdBlue® | 27 | 7.1 |

## 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 roller on each side | 2 EA |
| No. of track roller on each side | 9 EA |
| No. of rail guard on each side | 2 EA |

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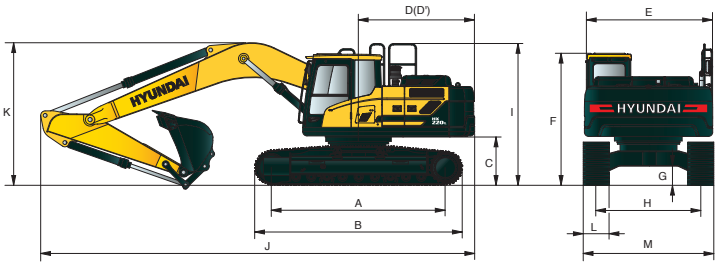



## HX220L DIMENSIONS

Unit: mm (ft·in)

5.68 m (18' 8") boom
2.0 m (6' 7"), 2.4 m (7' 10"), 2.92 m (9' 7"), 3.9 m (12' 10") arm

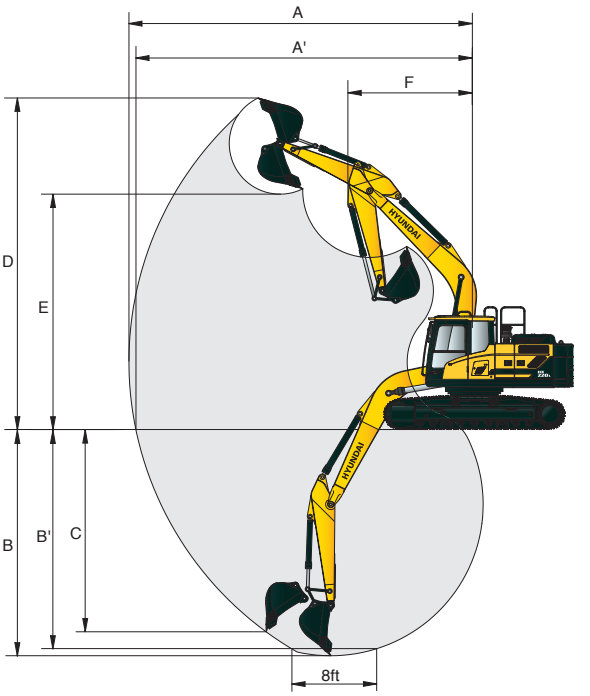
| | | |
|---|---|---|
| A | Tumbler distance | 3,650 (12' 0") |
| B | Overall length of crawler | 4,440 (14' 7") |
| C | Ground clearance of counterweight | 1,060 (3' 6") |
| D | Tail swing radius | 2,840 (9' 4") |
| D' | Rear-end length | 2,770 (9' 1") |
| E | Overall width of upper structure | 2,740 (9' 0") |
| F | Overall height of cab | 3,000 (9' 8") |
| G | Min. ground clearance | 480 (1' 7") |
| H | Track gauge | 2,390 (7' 10") |
| I | Overall height of guardrail | 3,210 (10' 5") |

| | Boom length | 5,680 (18' 8") | | | |
|---|---|---|---|---|---|
| | Arm length | 2,000 (6' 7") | 2,400 (7' 10") | 2,920 (9' 7") | 3,900 (12' 10") |
| J | Overall length | 9,650 (31' 8") | 9,570 (31' 5") | 9,530 (31' 3") | 9,520 (31' 3") |
| K | Overall height of boom | 3,200 (10' 6") | 3,110 (10' 2") | 3,030 (9' 11") | 3,480 (11' 5") |
| L | Track shoe width | 600 (24") | 700 (28") | 800 (32") | 900 (36") |
| M | Overall width | 2,990 (9' 10") | 3,090 (10' 2") | 3,190 (10' 6") | 3,290 (10' 10") |

## HX220L WORKING RANGE

Unit : mm (ft·in)

| | Boom length | 5,680 (18' 8") | | | |
|---|---|---|---|---|---|
| | Arm length | 2,000 (6' 7") | 2,400 (7' 10") | 2,920 (9' 7") | 3,900 (12' 10") |
| A | Max. digging reach | 9,140 (30' 0") | 9,500 (31' 2") | 9,980 (32' 9") | 10,910 (35' 10") |
| A' | Max. digging reach on ground | 8,960 (29' 5") | 9,330 (30' 7") | 9,820 (32' 3") | 10,770 (35' 4") |
| B | Max. digging depth | 5,820 (19' 1") | 6,220 (20' 5") | 6,730 (22' 1") | 7,720 (25' 4") |
| B' | Max. digging depth (8' level) | 5,580 (18' 4") | 6,010 (19' 9") | 6,560 (21' 6") | 7,580 (24' 10") |
| C | Max. vertical wall digging depth | 5,280 (17' 4") | 5,720 (18' 9") | 6,280 (20' 7") | 7,240 (23' 9") |
| D | Max. digging height | 9,140 (30' 0") | 9,340 (30' 8") | 9,600 (31' 6") | 10,110 (33' 2") |
| E | Max. dumping height | 6,330 (20' 9") | 6,520 (21' 5") | 6,780 (22' 3") | 7,290 (23' 11") |
| F | Min. swing radius | 3,750 (12' 4") | 3,740 (12' 3") | 3,670 (12' 0") | 3,700 (12' 2") |




## DIGGING FORCE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boom | Length | mm (ft·in) | 5,680 (18' 8") | | | | 8,200 (26' 11") | [Power Boost] |
| | Weight | kg (lb) | 1,950 (4,300) | | | | 2,350 (5,180) | |
| Arm | Length | mm (ft·in) | 2,000 (6' 7") | 2,400 (7' 10") | 2,920 (9' 7") | 3,900 (12' 10") | 6,300 (20' 8") | |
| | Weight | kg (lb) | 975 (2,150) | 1,045 (2,300) | 1,095 (2,410) | 1,295 (2,850) | 1,330 (2,930) | |
| Bucket digging force | SAE | kN | 133.4 [144.8] | 133.4 [144.8] | 133.4 [144.8] | 133.4 [144.8] | 72.6 | |
| | | kgf | 13,600 [14,770] | 13,600 [14,770] | 13,600 [14,770] | 13,600 [14,770] | 7,400 | |
| | | lbf | 29,980 [32,550] | 29,980 [32,550] | 29,980 [32,550] | 29,980 [32,550] | 16,310 | |
| | ISO | kN | 152.0 [165.0] | 152.0 [165.0] | 152.0 [165.0] | 152.0 [165.0] | 83.4 | |
| | | kgf | 15,500 [16,830] | 15,500 [16,830] | 15,500 [16,830] | 15,500 [16,830] | 8,500 | |
| | | lbf | 34,170 [37,100] | 34,170 [37,100] | 34,170 [37,100] | 34,170 [37,100] | 18,740 | |
| Arm crowd force | SAE | kN | 144.2 [156.5] | 119.6 [129.9] | 102.0 [110.7] | 84.3 [91.6] | 49.0 | |
| | | kgf | 14,700 [15,960] | 12,200 [13,250] | 10,400 [11,290] | 8,600 [9,340] | 5,000 | |
| | | lbf | 32,410 [35,190] | 26,900 [29,210] | 22,930 [24,900] | 18,960 [20,590] | 11,020 | |
| | ISO | kN | 151.0 [164.0] | 125.5 [136.3] | 106.9 [116.1] | 87.3 [94.8] | 50.0 | |
| | | kgf | 15,400 [16,720] | 12,800 [13,900] | 10,900 [11,830] | 8,900 [9,660] | 5,100 | |
| | | lbf | 33,950 [36,860] | 28,220 [30,640] | 24,030 [26,090] | 19,620 [21,300] | 11,240 | |

Note : Boom weight includes arm cylinder, piping, and pin
Arm weight includes bucket cylinder, linkage, and pin

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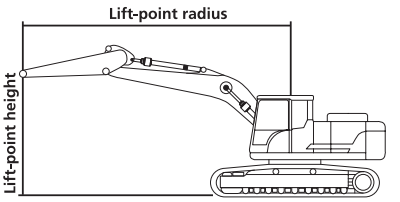
Tier 4 Final Engine




## Lifting Capacity

Boom: 5,600 mm (18′ 8″)
Arm: 2,920 mm (9′ 10″)
Bucket: 0.92 m³ (1.20 yd³) SAE heaped
Shoe: 800 mm (32″) triple grouser, CWT 4,500 kg (9,920 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) |
| 7.5 m | kg | | | | | | | ***4,570** | ***4,570** | | | ***3,910** | ***3,910** | **6.25** |
| (25 ft) | lb | | | | | | | ***10,070** | ***10,070** | | | ***8,630** | ***8,630** | **(20.5)** |
| 6.0 m | kg | | | | | | | ***5,240** | ***5,240** | | | ***3,600** | ***3,600** | **7.37** |
| (19.7 ft) | lb | | | | | | | ***11,550** | ***11,550** | | | ***7,940** | ***7,940** | **(24.2)** |
| 4.5 m | kg | | | | | | | ***5,840** | ***5,710** | ***5,500** | **4,030** | ***3,510** | ***3,510** | **8.06** |
| (14.8 ft) | lb | | | | | | | ***12,880** | ***12,590** | ***12,120** | **8,880** | ***7,750** | ***7,750** | **(26.4)** |
| 3.0 m | kg | | | | | ***8,690** | ***8,350** | ***6,830** | ***5,470** | ***6,000** | **3,920** | ***3,570** | ***3,270** | **8.43** |
| (9.8 ft) | lb | | | | | ***19,150** | ***18,400** | ***15,060** | ***12,050** | ***13,220** | **8,650** | ***7,880** | ***7,210** | **(27.6)** |
| 1.5 m | kg | | | | | ***10,750** | ***7,820** | ***7,880** | ***5,220** | **6,150** | **3,800** | ***3,780** | ***3,160** | **8.51** |
| (4.9 ft) | lb | | | | | ***23,700** | ***17,250** | ***17,360** | ***11,510** | **13,560** | **8,390** | ***8,330** | ***6,970** | **(27.9)** |
| Ground Line | kg | | | ***6,770** | ***6,770** | ***11,950** | ***7,540** | **8,430** | **5,040** | **6,050** | **3,710** | ***4,160** | ***3,220** | **8.33** |
| | lb | | | ***14,930** | ***14,930** | ***26,350** | ***16,620** | **18,590** | **11,120** | **13,330** | **8,180** | ***9,180** | ***7,090** | **(27.3)** |
| -1.5 m | kg | ***7,430** | ***7,430** | ***11,860** | ***11,860** | ***12,220** | ***7,450** | **8,340** | **4,960** | **6,010** | **3,680** | ***4,860** | ***3,470** | **7.85** |
| (-4.9 ft) | lb | ***16,380** | ***16,380** | ***26,150** | ***26,150** | ***26,940** | ***16,430** | **18,390** | **10,950** | **13,260** | **8,120** | ***10,720** | ***7,660** | **(25.7)** |
| -3.0 m | kg | ***12,690** | ***12,690** | ***16,380** | ***14,590** | ***11,620** | ***7,510** | **8,380** | **4,990** | | | ***5,900** | ***4,080** | **7.02** |
| (-9.8 ft) | lb | ***27,980** | ***27,980** | ***36,100** | ***32,160** | ***25,620** | ***16,550** | **18,470** | **11,010** | | | ***13,000** | ***8,990** | **(23.0)** |
| -4.5 m | kg | | | ***13,820** | ***13,820** | ***9,760** | ***7,720** | | | | | ***7,240** | ***5,590** | **5.68** |
| (-14.8 ft) | lb | | | ***30,460** | ***30,460** | ***21,510** | ***17,010** | | | | | ***15,960** | ***12,330** | **(18.6)** |

NOTES:
1. Lifting capacities are based on ISO 10567.
2. 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.
3. The Lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. (*) indicates load limited by hydraulic capacity.

# SPECIFICATIONS
# HX220L
Tier 4 Final Engine

| ENGINE | STD | OPT |
|---|---|---|
| Cummins QSB 6.7 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** | **STD** | **OPT** |
| ISO standard cabin | | |
| Rise-up type windshield wiper | • | |
| Radio / USB player | • | |
| Bluetooth / hands-free mobile phone system with USB | • | |
| Miracast | • | |
| 12-volt power outlet (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 FOPS/FOG | | | |
| FOG ISO 10262 Level 2 | Front and top guard | | • |
| (FOPS ISO 3449 Level 2) | Top guard | | • |
| Cabin ROPS | | | |
| ROPS ISO 12117-2 | | • | |
| **SAFETY** | | **STD** | **OPT** |
| Battery master switch | | • | |
| Rearview camera | | • | |
| AAVM (All-Around View Monitoring) | | | • |
| Six front working lights | | • | |
| Dual boom working lights | | • | |
| 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 SPECS** | | **STD** | **OPT** |
| Booms | | | |
| 5.68 m, 18' 8" | | • | |
| 8.2 m, 26' 11" Long reach | | | • |
| Arms | | | |
| 2.0 m, 6' 7" | | | • |
| 2.4 m, 7' 10" | | | • |
| 2.92 m, 9' 7" | | • | |
| 3.9 m, 12' 10" | | | • |
| 6.3 m, 20' 8" Long reach | | | • |
| 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 | | | • |
| One-pedal straight travel system | | | • |
| Pilot accumulator | | • | |
| Pattern change valve (SAE and ISO) | | • | |
| Fine swing control system | | | • |
| Tool kit | | | • |
| **UNDERCARRIAGE** | | **STD** | **OPT** |
| Lower frame under cover (additional) | | | • |
| Lower frame under cover (normal) | | • | |
| Track shoes | | | |
| Triple grouser shoes (700 mm, 28") | | | • |
| Triple grouser shoes (800 mm, 32") | | • | |
| Triple grouser shoes (900 mm, 36") | | | • |
| 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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