

SPECIFICATIONS

HX220A LR

Powered By Cummins Performance Series Engine



Net Power
170 HP (127 kW)
at 2,200 rpm

Standard Bucket
0.52 m³ (0.68 yd³)

Operating Weight
25,420 (56,040)

ENGINE

| | |
|-------------------------|--|
| Maker / Model | Cummins B6.7 |
| Type | Tier 4F/ Stage V Emission Certified, 6 cylinder diesel engine with No Manual Regeneration. |
| Gross power (SAE J1995) | 173 HP (129 kW) at 2,200 rpm |
| Net power (SAE J1349) | 170 HP (127 kW) at 2,200 rpm |
| Max. power | 195 HP (145kW) at 2,000 rpm |
| Peak torque | 650 lb-ft (881 N-m) at 1,300 rpm |
| Displacement | 6,700 cc (408 cu in) |

HYDRAULIC SYSTEM

MAIN PUMP

| | |
|----------------------------|--|
| Type | Variable Displacement Tandem Axis Piston Pumps |
| Max. flow | 2 x 51 gpm (2 x 221 ℓ/min) |
| Sub-Pump For pilot circuit | Gear Pump |

AUXILIARY PRESSURE

| | | |
|----------|----------------|---------------------------------|
| 2 Way | Flow (l/min) | 26~116 gpm / (100~440 lpm) |
| | Pressure (bar) | 1,450~5,076 psi / (100~350 bar) |
| Rotating | Flow (l/min) | 14 gpm / (52.7 lpm) |
| | Pressure (bar) | 2,321 psi / (160 bar) |

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 (4,980 psi) |
| Travel | 350 kgf/cm ² (4,980 psi) |
| Power boost (Boom, Arm, Bucket) | 380 kgf/cm ² (5,400 psi) |
| Swing circuit | 290 kgf/cm ² (4,125 psi) |
| Pilot circuit | 40 kgf/cm ² (570psi) |
| Service valve | Installed |

HYDRAULIC CYLINDERS

| | |
|----------------------------------|-------------------------|
| No. of Cylinder Bore X Stroke | Boom: Ø120 x 1,290 mm |
| | Arm: Ø140 x 1,510 mm |
| | Bucket: Ø120 x 1,055 mm |

DRIVES & BRAKES

| | |
|--------------------------------|---|
| Drive method | Fully Hydrostatic Type |
| Drive motor | Axial Piston Motor, In-Shoe Design |
| Reduction system | Planetary Reduction Gear |
| Max. Drawbar pull | 20,800 kgf (45,860 lbf) |
| Max. Travel speed (High / Low) | 5.4 km/hr (3.4 mph) / 3.5 km/hr (2.2 mph) |
| Gradeability | 35° (70%) |
| Parking brake | Multi Wet Disc |

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, Boom and Bucket |
| Traveling and Steering | Two Levers With Pedals |
| Engine throttle | Electric, Dial Type |

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 8.2 m (26' 11") boom, 6.3 m (20' 8") arm, SAE heaped 0.52 m³ (0.68 yd³) bucket, 800 mm (32" shoe), lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipment.

OPERATING WEIGHT

| Shoes | Operating Weight | | Ground Pressure | |
|-------|------------------|---------------|-----------------|---------------------------|
| | Type | Width mm (in) | kg (lb) | kgf/cm ² (psi) |
| | 800 (32") | HX220A LR | 25,420 (56,040) | 0.36 (5.16) |
| | 900 (36") | HX220A LR | 25,701 (56,660) | 0.33 (4.64) |

SWING SYSTEM

| | |
|---------------------------|---------------------------------------|
| Swing motor | Fixed Displacement Axial Piston Motor |
| Swing reduction | Planetary Gear Reduction |
| Swing bearing lubrication | Grease-Bathed |
| Swing brake | Multi Wet Disc |
| Swing speed | 11.4 rpm |

COOLANT & LUBRICANT CAPACITY

| | LITER | US gal |
|-----------------------------------|-------|--------|
| Fuel tank | 400 | 106 |
| Engine coolant | 40 | 10.6 |
| Engine oil | 23.1 | 6.1 |
| Swing device | 6.2 | 1.64 |
| Final drive (Each) | 4.5 | 1.2 |
| Hydraulic system (Including tank) | 275 | 72.6 |
| Hydraulic tank | 155 | 40.9 |
| DEF/AdBlue® | 48 | 12.6 |

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.

| | X-Leg Type |
|------------------------------------|---------------------|
| Center frame | Pentagonal Box Type |
| Track frame | |
| 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 |

CAB NOISE LEVEL

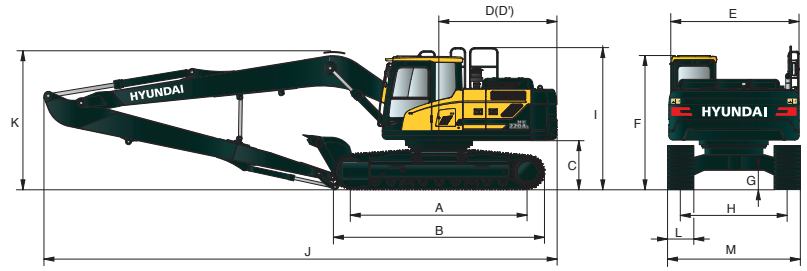
Guaranteed noise level presented below can be differed depending on a range of factors such as operating condition, speed of a cooling fan, types of engine and so forth. Hearing protection may be necessary if an operator is working in the improperly aintained cabin or exposed to a noisy environment by 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) | 98 dB(A) |

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

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HX220AL LONG REACH DIMENSIONS

Unit: mm (ft-in)

| | | |
|---|-----------------------------------|----------------|
| A | Tumbler Distance | 3,650 (12' 0") |
| B | Overall Length of Crawler | 4,404 (14' 4") |
| C | Ground Clearance of Counterweight | 1,060 (3' 6") |
| D | Tail Swing Radius | 2,890 (9' 5") |
| D | Rear-End Length | 2,770 (9' 1") |
| E | Overall Width of Upperstructure | 2,740 (9' 0") |
| F | Overall Height of Cab | 3,000 (9' 8") |
| G | Min. Ground Clearance | 470 (1' 7") |
| H | Track Gauge | 2,390 (7' 10") |
| I | Overall Height of Guardrail | 3,210 (10' 5") |

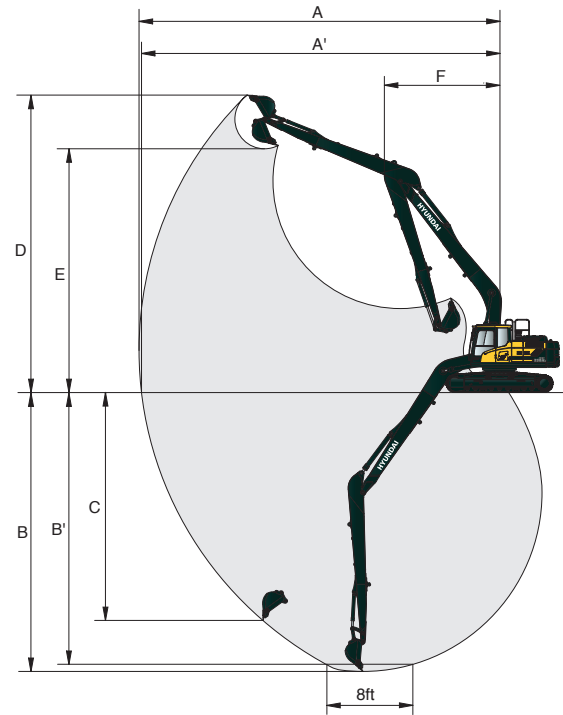
| | | |
|---|------------------------|-----------------|
| | Boom Length | 8,200 (26' 11") |
| | Arm Length | 6,300 (20' 8") |
| J | Overall Length | 12,030 (39' 6") |
| K | Overall Height Of Boom | 3,280 (10' 9") |
| L | Track Shoe Width | 800 (32") |
| M | Overall Width | 3,190 (10' 6") |

* This figure includes the size of grousers.

HX220AL LONG REACH WORKING RANGE

Unit : mm (ft-in)

| | | |
|---|----------------------------------|-----------------|
| | Boom Length | 8,200 (26' 11") |
| | Arm Length | 6,300 (20' 8") |
| A | Max. Digging Reach | 15,220 (50' 0") |
| A | Max. Digging Reach On Ground | 15,120 (49' 7") |
| B | Max. Digging Depth | 11,760 (38' 7") |
| B | Max. Digging Depth (8' Level) | 11,650 (38' 3") |
| C | Max. Vertical Wall Digging Depth | 9,610 (31' 6") |
| D | Max. Digging Height | 12,550 (41' 2") |
| E | Max. Dumping Height | 10,280 (33' 8") |
| F | Min. Swing Radius | 4,870 (16' 0") |



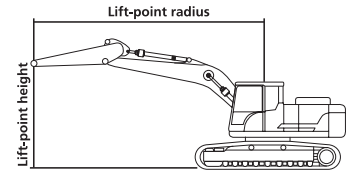
HX220AL LONG REACH DIGGING FORCE

| | | | |
|----------------------|--------|------------|-----------------|
| Boom | Length | mm (ft.in) | 8,200 (26' 11") |
| | Weight | kg (lb) | 2,350 (5,180) |
| Arm | Length | mm (ft.in) | 6,300 (20' 8") |
| | Weight | kg (lb) | 1,330 (2,930) |
| Bucket Digging Force | SAE | kN | 72.7 |
| | | kgf | 7,410 |
| | | lbf | 16,340 |
| | ISO | kN | 85.0 |
| | | kgf | 8,670 |
| | | lbf | 19,110 |
| Arm Crowd Force | SAE | kN | 48.9 |
| | | kgf | 4,990 |
| | | lbf | 11,000 |
| | ISO | kN | 49.9 |
| | | kgf | 5,090 |
| | | lbf | 11,220 |

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

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Lifting Capacity

Boom: 8.2 m (26' 11")

Arm: 6.3 m (20' 8")

Bucket: 0.52 m³ (0.68 yd³) SAE heaped

Shoe 800 mm (32") triple grouser, CWT 5,300 kg (11,680 lb)

Capacities based on North American Standard Configuration

in accordance with ISO condition 2 standard

Rating over front

Rating over side or 360 degrees

| Lift-point height (m/ft) | Lift-point radius | | | | | | | | | | At max. reach | | | | | | | | | | | | |
|--------------------------|-------------------|--------|--------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|-------|----------------|-------|----------------|-------|----------------|-------|----------|-------|--------|--------|--------|
| | 1.5m (4.9ft) | | 3.0m (9.8ft) | | 4.5m (14.8ft) | | 6.0m (19.7ft) | | 7.5m (24.6ft) | | 9.0m (29.5ft) | | 10.5m (34.4ft) | | 12.0m (39.4ft) | | 13.5m (44.3ft) | | Capacity | Reach | | | |
| | | | | | | | | | | | | | | | | | | | | | m (ft) | | |
| 10.5m 34.4ft | kg | | | | | | | | | | | | | *1180 | *1180 | | | | | *870 | *870 | 10.88 | |
| | lb | | | | | | | | | | | | | *2600 | *2600 | | | | | *1920 | *1920 | (35.7) | |
| 9.0m 29.5ft | kg | | | | | | | | | | | | | | | | | | | *820 | *820 | 11.94 | |
| | lb | | | | | | | | | | | | | | | | | | | *1810 | *1810 | (392) | |
| 7.5m 24.6ft | kg | | | | | | | | | | | | | *1870 | *1870 | *1410 | *1410 | | | *790 | *790 | 12.74 | |
| | lb | | | | | | | | | | | | | *4120 | *4120 | *3110 | *3110 | | | *1740 | *1740 | (41.8) | |
| 6.0m 19.7ft | kg | | | | | | | | | | | | | *1990 | *1990 | *1780 | *1780 | | | *790 | *790 | 13.31 | |
| | lb | | | | | | | | | | | | | *4390 | *4390 | *3920 | *3920 | | | *1740 | *1740 | (43.7) | |
| 4.5m 14.8ft | kg | | | | | | | | | *2290 | *2290 | *2170 | *2170 | *2080 | *2080 | *1050 | *1050 | *800 | *800 | | | 13.70 | |
| | lb | | | | | | | | | *5050 | *5050 | *4780 | *4780 | *4590 | *4590 | *2310 | *2310 | *1760 | *1760 | | | (45.0) | |
| 3.0m 9.8ft | kg | | | | | | | *2980 | *2980 | *2630 | *2630 | *2400 | *2400 | *2250 | 2000 | *1340 | *1340 | *830 | *830 | | | 13.92 | |
| | lb | | | | | | | *6570 | *6570 | *5800 | *5800 | 5290 | 5290 | *4960 | 4410 | *2950 | *2950 | *1830 | *1830 | | | (45.7) | |
| 1.5m 4.9ft | kg | | *2800 | *280 | *6330 | *6330 | *4470 | *4470 | *3530 | *3530 | *2990 | *2990 | *2640 | 2400 | *2410 | 1910 | *1490 | *1490 | *880 | *880 | | | 13.97 |
| | lb | | *6170 | *6170 | *13960 | *13960 | *9850 | *9850 | *7780 | *7780 | *6590 | *6590 | *5820 | 5290 | *5310 | 4210 | *3280 | *3280 | *1940 | *1940 | | | (45.8) |
| 0.0m 0.0ft | kg | | *2410 | *2410 | *6270 | *6270 | *5260 | 5000 | *4050 | 3710 | *3340 | 2870 | *2880 | 2270 | *2580 | 1830 | *1470 | *1470 | *950 | *950 | | | 13.85 |
| | lb | | *5310 | *5310 | *13820 | *13820 | *11600 | 11070 | *8930 | 8180 | *7360 | 6330 | *6351 | 5000 | *5690 | 4000 | *3240 | *3240 | *2000 | *2000 | | | {45.4} |
| -1.5m -4.9ft | kg | *1990 | *1990 | *2980 | *2980 | *5610 | *5610 | *5830 | 4690 | *4460 | 3480 | *3630 | 2710 | *3090 | 2160 | *2720 | 1760 | *1170 | *1170 | *1040 | *1040 | 13.57 | |
| | lb | *4390 | *4390 | *6570 | *6570 | *12370 | *12370 | *12850 | 10340 | *9830 | 7670 | *8000 | 5970 | *6810 | 4760 | *6000 | 3880 | *2580 | *2580 | *2290 | *2290 | (44.5) | |
| -3.0m -9.8ft | kg | *2870 | *2870 | *3800 | *3800 | *6050 | *6050 | *6170 | 4510 | *4750 | 3330 | *3850 | 2600 | *3250 | 2090 | *2810 | 1710 | | | *1180 | *1180 | 13.11 | |
| | lb | *6330 | *6330 | *8380 | *8380 | *13340 | *13340 | *13600 | 9940 | *10470 | 7340 | *8490 | 5730 | *7170 | 4610 | *6190 | 3770 | | | *2600 | *2600 | (43.0) | |
| -4.5m -14.8ft | kg | *3790 | *3790 | *4800 | *4800 | *7020 | 6750 | *6290 | 4450 | *4880 | 3270 | *3960 | 2540 | *3320 | 2050 | *2380 | 1700 | | | *1390 | *1390 | 12.45 | |
| | lb | *8360 | *8360 | *10580 | *10580 | *15480 | 14880 | *13870 | 9810 | *10760 | 7210 | *8730 | 5600 | *7320 | 4520 | *5250 | 3750 | | | *3060 | *3060 | (40.9) | |
| -6.0m -19.7ft | kg | *4800 | *4800 | *5970 | *5970 | *8340 | 6840 | *6190 | 4470 | *4850 | 3270 | *3930 | 2550 | *3250 | 2070 | | | | | *1720 | *1720 | 11.56 | |
| | lb | *10580 | *10580 | *13160 | *13160 | *18390 | 15080 | *13650 | 9850 | *10690 | 7210 | *8660 | 5620 | *7170 | 4560 | | | | | *3790 | *3790 | (37.9) | |
| -7.5m -24.6ft | kg | *5950 | *5950 | *7410 | *7410 | *7740 | 7040 | *5830 | 4590 | *4600 | 3350 | *3700 | 2620 | | | | | | | *2300 | 2190 | 10.37 | |
| | lb | *13120 | *13120 | *16340 | *16340 | *17060 | 15520 | *12850 | 10120 | *10140 | 7390 | *8160 | 5780 | | | | | | | *5070 | 4830 | (34.0) | |
| -9.0m -29.5ft | kg | | *9290 | *9290 | *6700 | *6700 | *5100 | 4790 | *3980 | 3520 | | | | | | | | | | *3160 | 2880 | 8.77 | |
| | lb | | *20480 | *20480 | *14770 | *14770 | *11240 | 10560 | *8770 | 7760 | | | | | | | | | | *6970 | 6350 | (28.8) | |

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 the bucket pivot mounting pin on the arm (without bucket mass).

4. (*) indicates load limited by hydraulic capacity.

HYDRAULIC SYSTEM

| Electric Positive Flow Control (EPFC) | | |
|---------------------------------------|---|--|
| 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 | • | |
| Handsfree Mobile Phone System with USB | • | |
| 12V Power Outlet (24V DC to 12V DC converter) | • | |
| Electric Horn | • | |
| All-Weather Steel Cab with 360° Visibility | • | |
| Safety glass - Tempered glass | • | |
| Safety glass - Tempered glass with front laminated glass | | • |
| Sliding Fold-In Front Window | • | |
| Sliding Side Window (LH) | • | |
| Lockable Door | • | |
| Hot & Cool Box | • | |
| Storage Compartment | • | |
| Ashtray & Cigar Lighter | | • |
| Transparent Cabin Roof-Cover | • | |
| Sun Visor | • | |
| Door And Cab Locks, One Key | • | |
| Mechanical Suspension Seat With Heater | • | |
| Pilot-Operated Slidable Joystick | • | |
| Console Box Height Adjust System | • | |

Automatic climate control

| | | |
|---|---|--|
| Air Conditioner & 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 warning with alarm | | • |
| Check Engine | • | |
| Air Cleaner Clogging | • | |
| Indicators | • | |
| ECO Gauges | • | |
| Fuel Level Gauge | • | |
| Hyd. Oil Temperature Gauge | • | |
| Fuel Warmer | • | |
| Warnings | • | |
| Communication Error | • | |
| Low Battery | • | |
| Clock | • | |
| Cabin Lights | • | |
| Cabin Front Window Rain Guard | | • |
| Cabin Roof-Steel Cover | | • |

Seat

| | | |
|--|---|--|
| Adjustable Air Suspension Seat With Heater | • | |
|--|---|--|

Cabin FOG (ISO 10262) Level 2

| | | |
|---|--|---|
| FOG (Falling Object Protective Structure)-ISO 10262 Level 2 | | • |
|---|--|---|

Cabin ROPS

| | | |
|---|---|--|
| ROPS (Roll Over Protective Structures)-ISO 1211 7-2 | • | |
|---|---|--|

SAFETY

| | STD | OPT |
|---|-----|-----|
| Battery Master Switch | • | |
| Rearview Camera | • | |
| AAVM (Advanced 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 | • | |
| Front Guard - Wire Net | | • |

OTHER

Booms

| | | |
|---------------------------|---|--|
| 8.2 m, 26' 11" Long Reach | • | |
|---------------------------|---|--|

Arms

| | | |
|--|---|---|
| 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) | • | |
| Batteries (2 x 12 V x 100 AH) | • | |
| Fuel Filler Pump (50 ℓ/min) | | • |
| Single-Acting Piping Kit (Breaker, Etc.) | | • |
| Double-Acting Piping Kit (Clamshell, Etc.) | • | |
| Rotating Piping Kit | | • |
| Quick Coupler Piping | • | |
| Quick Coupler | • | |
| Boom Floating Control | | • |
| One Pedal Straight Travel System | • | |
| Accumulator For Lowering Work Equipment | • | |
| Pattern Change Valve (2 Patterns) | • | |
| Fine Swing Control System | | • |
| Tool Kit | | • |

UNDERCARRIAGE

| | | |
|--------------------------------------|--|---|
| Lower Frame Under Cover (Additional) | | • |
|--------------------------------------|--|---|

| | | |
|----------------------------------|---|--|
| Lower Frame Under Cover (Normal) | • | |
|----------------------------------|---|--|

Track Shoes

| | | |
|-------------------------------------|---|--|
| Triple Grousers Shoe (800 mm, 32") | • | |
|-------------------------------------|---|--|

| | | |
|-------------------------------------|--|---|
| Triple Grousers Shoe (900 mm, 36") | | • |
|-------------------------------------|--|---|

| | | |
|------------------|---|--|
| Track Rail Guard | • | |
|------------------|---|--|

| | | |
|-----------------------|--|---|
| Full Track Rail Guard | | • |
|-----------------------|--|---|

* 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.

