

SPECIFICATIONS

HX235A LCR

Powered By Cummins Performance Series Engine



HYUNDAI CONSTRUCTION EQUIPMENT

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

Bucket Range
0.51 - 1.34 m³
(0.67 - 1.75 yd³)
Standard Bucket
0.80 m³ (1.05 yd³)

Operating Weight
24,000 kg (52,910 lb) -
24,560 kg (54,140 lb)

| ENGINE | |
|-------------------------|--|
| Maker / Model | Cummins / B6.7 |
| Type | 6 cylinder, water cooled, 4-cycle, turbocharged charge air cooled, direct injection, electronic controlled diesel engine |
| Gross power (SAE J1995) | 129 kW (173 hp) at 2,200 rpm |
| Net power (SAE J1349) | 127 kW (170 hp) at 2,200 rpm |
| Max. power | 145 kW (195 hp) at 2,000 rpm |
| Max. torque | 881 N · m (650 lb · ft) at 1,300 rpm |
| Piston displacement | 6.7 l (409cu in) |

| HYDRAULIC SYSTEM | |
|--|--|
| MAIN PUMP | |
| Type | Variable displacement tandem axis piston pumps |
| Max. flow | 2 x 221 L/min (2 x 58.4 Us gpm / 2 x 48.6 UK gpm) |
| Sub-pump for pilot circuit | Gear pump |
| Cross-sensing and fuel saving pump system. | |

| AUXILIARY PRESSURE | | |
|--------------------|----------------|-------------------------------|
| 2 Way | Flow (l/min) | 26~116 gpm (100~400 lpm) |
| | Pressure (bar) | 1,450~5,076 psi (100~350 bar) |
| Rotating | Flow (l/min) | 14 gpm / (53 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 (5,410 psi) |
| Swing circuit | 285 kgf/cm ² (4,050 psi) |
| Pilot circuit | 40 kgf/cm ² (570 psi) |
| Service valve | Installed |

| HYDRAULIC CYLINDERS | |
|----------------------------------|---------------------------|
| No. of Cylinder Bore X Stroke | Boom : 2-120 X 1,290 mm |
| | Arm : 1-140 X 1,510 mm |
| | Bucket : 1-120 X 1,055 mm |
| | Blade : 2-130 X 240 mm |

| DRIVES & BRAKES | |
|--------------------------------|---------------------------------------|
| Drive method | Fully hydrostatic type |
| Drive motor | Axial piston motor, in-shoe design |
| Reduction system | Planetary reduction gear |
| Max. drawbar pull | 22,200kgf (48,943 lbf) |
| Max. travel speed (High / Low) | 5.6 km/hr (3.5mph) / 3.2 km/hr (2mph) |
| Gradeability | 35° (70%) |
| Parking brake | Multi wet disc |

| CONTROL | |
|---|--|
| Pilot pressure operated joysticks and pedals with levers provide almost effortless and fatigueless operation. | |
| Pilot control | Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket |
| 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 0.80 m ³ (1.05 yd ³) bucket, 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) |
| Triple grouser | 600 (24") | 24,000 (52,910) | 0.51 (7.27) |
| | 700 (28") | 24,280 (53,530) | 0.44 (6.30) |
| | 800 (32") | 24,560 (54,140) | 0.39 (5.58) |

| SWING SYSTEM | |
|---------------------------|--------------------------|
| Swing motor | Axial piston motor |
| Swing reduction | Planetary gear reduction |
| Swing bearing lubrication | Grease-bathed |
| Swing brake | Multi wet disc |
| Swing speed | 11.3 rpm |

| COOLANT & LUBRICANT CAPACITY | | |
|-----------------------------------|-------|--------|
| | liter | US gal |
| Fuel tank | 320.0 | 84.5 |
| Engine coolant | 40.0 | 10.6 |
| Engine oil | 23.1 | 6.1 |
| Swing device | 7.0 | 1.8 |
| Final drive (each) | 48.0 | 12.6 |
| DEF / AdBlue R tank | 48.0 | 12.6 |
| Hydraulic system (including tank) | 275.0 | 72.6 |
| Hydraulic tank | 160.0 | 42.3 |

| 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. | |

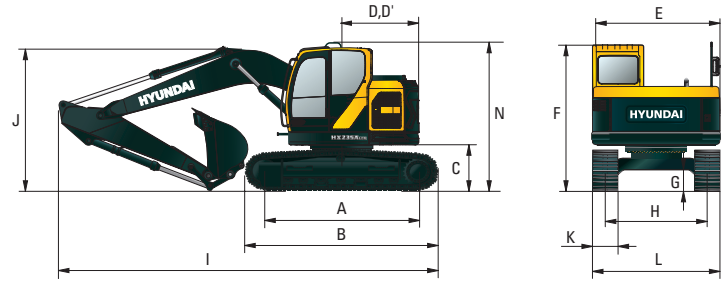
| Center frame | X-Leg Type |
|------------------------------------|---------------------|
| Track frame | Pentagonal Box Type |
| No. of Shoes on each side | 49 EA |
| No. of Carrier roller on each side | 2 EA |
| No. of Track roller on each side | 9 EA |
| No. of Rail guard on each side | 2 EA |

| 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 maintained cabin or exposed to a noisy environment by leaving doors and/or windows open. With cooling fan speed | |
| 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 | |

| AIR CONDITIONING SYSTEM | |
|--|--|
| The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential : 1430) | |
| The system hold 0.75kg refrigerant consisting of a CO ₂ equivalent 1.07kg metric tonne. For more information, Please refer to the manual. | |

SPECIFICATIONS HX235A LCR

Powered By Cummins Performance Series Engine



HX235A LCR DIMENSIONS

Unit: mm (ft-in)

5.68 m (18' 8") BOOM and 2.0 m (6' 7"), 2.4 m (7' 10"), 2.92 m (9' 7") ARM

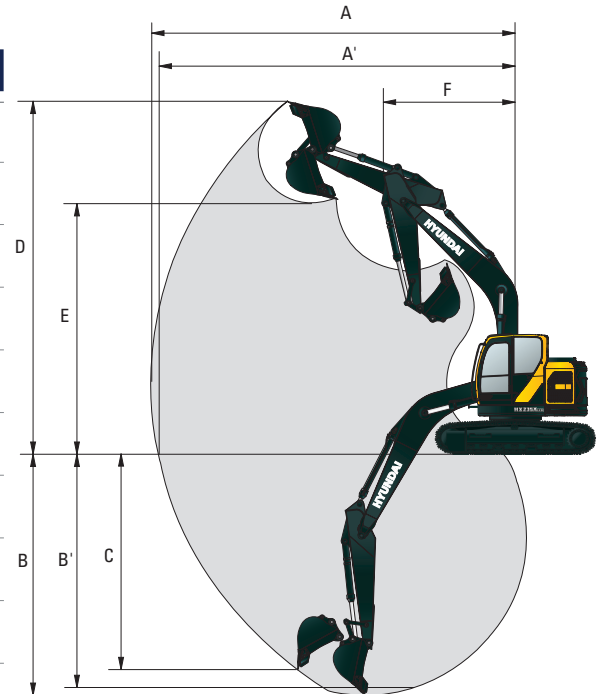
| | | |
|----|--|-----------------|
| A | Tumbler distance | 3,650 (12' 0") |
| B | Overall length of crawler | 4,446 (14' 7") |
| C | Ground clearance of counterweight | 1,080 (3' 7") |
| D | Tail-swing radius | 1,780 (6' 04") |
| D' | Rear-end length | 1,780 (6' 04") |
| E | Overall width of upper structure | 2,980 (9' 9") |
| F | Overall height of cab | 3,100 (10' 2") |
| G | Min. ground clearance | 470 (1' 65") |
| H | Track gauge | 2,390 (7' 10") |
| N | Overall Height of Guardrail w/ Grouser | 3,290 (10' 10") |

| | | | |
|------------------|----------------|----------------|----------------|
| Boom length | 5,680 (18' 8") | | |
| Arm length | 2,000 (6' 7") | 2,400 (7' 10") | 2,920 (9' 7") |
| J Overall length | 9,050 (29' 8") | 8,950 (29' 4") | 8,910 (29' 3") |
| K Overall height | 3,240 (10' 8") | 3,130 (10' 3") | 3,040 (10' 0") |
| L Track shoe | 600 (1' 12") | 700 (2' 4") | 800 (2' 7") |
| M Overall Width | 2,990 (9' 10") | 3,090 (10' 2") | 3,190 (10' 6") |

HX235A LCR 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") |
| A Max. digging reach | 9,040 (29' 8") | 9,430 (30' 11") | 9,910 (32' 6") |
| A' Max. digging reach on ground | 8,860 (29' 1") | 9,260 (30' 5") | 9,750 (32' 0") |
| B Max. digging depth | 5,750 (18' 10") | 6,150 (20' 2") | 6,670 (21' 11") |
| B' Max. digging depth (8' level) | 5,490 (18' 0") | 5,940 (19' 6") | 6,490 (21' 4") |
| C Max. vertical wall digging depth | 5,120 (16' 10") | 5,570 (18' 3") | 6,090 (20' 0") |
| D Max. digging height | 10,130 (33' 3") | 10,460 (34' 4") | 10,820 (35' 6") |
| E Max. dumping height | 7,220 (23' 8") | 7,540 (24' 9") | 7,900 (25' 11") |

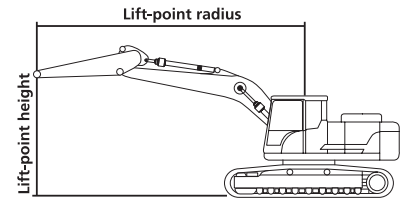


DIGGING FORCE

| Arm | Length | mm (ft.in) | 2,000 (6' 7") | 2,400 (7' 10") | 2,920 (9' 7") | Remark |
|----------------------|--------|------------|-----------------|-----------------|-----------------|------------------|
| | Weight | kg (lb) | 975 (2,150) | 1,045 (2,300) | 1,095 (2,410) | |
| Bucket digging force | SAE | kN | 133.4 [144.8] | 133.4 [144.8] | 133.4 [144.8] | [] : Power Boost |
| | | kgf | 13,600 [14,770] | 13,600 [14,770] | 13,600 [14,770] | |
| | | lbf | 29,980 [32,550] | 29,980 [32,550] | 29,980 [32,550] | |
| | ISO | kN | 152.0 [165.0] | 152.0 [165.0] | 152.0 [165.0] | |
| | | kgf | 15,500 [16,830] | 15,500 [16,830] | 15,500 [16,830] | |
| | | lbf | 34,170 [37,100] | 34,170 [37,100] | 34,170 [37,100] | |
| Arm crowd force | SAE | kN | 144.2 [156.5] | 119.6 [129.9] | 102.0 [110.7] | |
| | | kgf | 14,700 [15,960] | 12,200 [13,250] | 10,400 [11,290] | |
| | | lbf | 32,410 [35,190] | 26,900 [29,210] | 22,930 [24,900] | |
| | ISO | kN | 151.0 [164.0] | 125.5 [136.3] | 106.9 [116.1] | |
| | | kgf | 15,400 [16,720] | 12,800 [13,900] | 10,900 [11,830] | |
| | | lbf | 33,950 [36,860] | 28,220 [30,640] | 24,030 [26,090] | |

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

SPECIFICATIONS HX235^A LCR



Lifting Capacity (With Dozer)

Boom: 5.68 m (18' 8")

Arm: 2.92 m (9' 7")

Shoe 800 mm (32") triple grouser, CWT 5,300 kg (11,685 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) | At max. reach | | | | | | | | | | | | m (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) | | 9.0 m (29.5 ft) | | Capacity | | | |
| | | | | | | | | | | | | | | |
| 9.0 m 29.5 ft | kg | | | | | | | | | *4150 | *4150 | 4.32 | 7.44 | |
| | lb | | | | | | | | | *9150 | *9150 | (14.2) | | |
| 7.5 m 24.6 ft | kg | | | *4610 | *4610 | *4230 | *4230 | | | | *3370 | *3370 | 6.20 | |
| | lb | | | *10160 | *10160 | *9330 | *9330 | | | | *7430 | *7430 | | |
| 6.0 m 19.7 ft | kg | | | *4880 | *4880 | *4640 | *4640 | | | | *3100 | *3100 | 7.31 | |
| | lb | | | *10760 | *10760 | *10230 | *10230 | | | | *6830 | *6830 | | |
| 4.5 m 14.8 ft | kg | | *7640 | *7640 | *5880 | *5880 | *5060 | *5060 | *4650 | 3990 | *3020 | *3020 | 8.00 | |
| | lb | | *16840 | *16840 | *12960 | *12960 | *11160 | *11160 | *10250 | 8800 | *6660 | *6660 | | |
| 3.0 m 9.8 ft | kg | | | *7360 | *7360 | *5720 | 5440 | *4910 | 3890 | *3080 | *3080 | 8.36 | | |
| | lb | | | *16230 | *16230 | *12610 | 11990 | *10820 | 8580 | *6790 | *6790 | | | |
| 1.5 m 4.9 ft | kg | | | *8690 | 7850 | *6380 | 5200 | *5210 | 3770 | *3250 | 3160 | 8.44 | | |
| | lb | | | *19160 | 17310 | *14070 | 11460 | *11490 | 8310 | *7170 | 6970 | | | |
| Ground Line | kg | | *6320 | *6320 | *9290 | 7550 | *6790 | 5020 | *5370 | 3680 | *3590 | 3220 | 8.25 (27.1) | |
| | lb | | *13930 | *13930 | *20480 | 16640 | *14970 | 11070 | *11840 | 8110 | *7910 | 7100 | | |
| -1.5 m -4.9 ft | kg | *6580 | *6580 | *10750 | *10750 | *9140 | 7470 | *6760 | 4940 | *5180 | 3650 | *4210 | 3490 | 7.77 |
| | lb | *14510 | *14510 | *23700 | *23700 | *20150 | 16470 | *14900 | 10890 | *11420 | 8050 | *9280 | 7690 | |
| -3.0 m -9.8 ft | kg | *11250 | *11250 | *11470 | *11470 | *8270 | 7520 | *6120 | 4970 | | | *4900 | 4120 | 6.93 |
| | lb | *24800 | *24800 | *25290 | *25290 | *18230 | 16580 | *13490 | 10960 | | | *10800 | 9080 | |
| -4.5 m -14.8 ft | kg | | | *8610 | *8610 | *6290 | *6290 | | | | | *4630 | *4630 | 5.58 |
| | lb | | | *18980 | *18980 | *13870 | *13870 | | | | | *10210 | *10210 | |

Lifting Capacity (Without Dozer)

Boom: 5.68 m (18' 8")

Arm: 2.92 m (9' 7")

Shoe 800 mm (32") triple grouser, CWT 5,300 kg (11,685 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) | At max. reach | | | | | | | | | | | | m (ft) | |
|-----------------------------|---------------|--------|--------------|--------|---------------|--------|-----------------|--------|-----------------|--------|----------|--------|--------|----------------|
| | 1.5m (4.9ft) | | 3.0m (9.8ft) | | 4.5m (14.8ft) | | 6.0 m (19.7 ft) | | 7.5 m (24.6 ft) | | Capacity | | | |
| | | | | | | | | | | | | | | |
| 9.0 m 29.5 ft | kg | | | | | | | | | | | *4150 | *4150 | 4.32 |
| | lb | | | | | | | | | | | *9150 | *9150 | |
| 7.5 m 24.6 ft | kg | | | *4610 | *4610 | *4230 | *4230 | | | | | *3370 | *3370 | 6.20 |
| | lb | | | *10160 | *10160 | *9330 | *9330 | | | | | *7430 | *7430 | |
| 6.0 m 19.7 ft | kg | | | *4880 | *4880 | *4640 | *4640 | | | | | *3100 | *3100 | 7.31 |
| | lb | | | *10760 | *10760 | *10230 | *10230 | | | | | *6830 | *6830 | |
| 4.5 m 14.8 ft | kg | | *7640 | *7640 | *5880 | *5880 | *5060 | *5060 | *4650 | 3540 | *3020 | *3020 | 8.00 | |
| | lb | | *16840 | *16840 | *12960 | *12960 | *11160 | *11160 | *10250 | 7800 | *6660 | *6660 | | |
| 3.0 m 9.8 ft | kg | | | *7360 | *7360 | *5720 | 4820 | *4910 | 3430 | *3080 | 2880 | 2880 | 8.36 | |
| | lb | | | *16230 | *16230 | *12610 | 10630 | *10820 | 7560 | *6790 | 6350 | 6350 | | |
| 1.5 m 4.9 ft | kg | | | *8690 | 6890 | *6380 | 4580 | *5210 | 3320 | *3250 | 2770 | 2770 | 8.44 | |
| | lb | | | *19160 | 15190 | *14070 | 10100 | *11490 | 7320 | *7170 | 6110 | 6110 | | |
| Ground Line | kg | | *6320 | *6320 | *9290 | 6600 | *6790 | 4400 | 5320 | 3230 | *3590 | 2820 | 2820 | 8.25 (27.1) |
| | lb | | *13930 | *13930 | *20480 | 14550 | *14970 | 9700 | 11730 | 7120 | *7910 | 6220 | 6220 | |
| -1.5 m -4.9 ft | kg | *6580 | *6580 | *10750 | *10750 | *9140 | 6520 | *6760 | 4330 | *5180 | 3200 | *4210 | 3060 | 7.77 |
| | lb | *14510 | *14510 | *23700 | *23700 | *20150 | 14370 | *14900 | 9550 | *11420 | 7050 | *9280 | 6750 | |
| -3.0 m -9.8 ft | kg | *11250 | *11250 | *11470 | *11470 | *8270 | 6570 | *6120 | 4360 | | | *4900 | 3620 | 6.93 |
| | lb | *24800 | *24800 | *25290 | *25290 | *18230 | 14480 | *13490 | 9610 | | | *10800 | 7980 | |
| -4.5 m -14.8 ft | kg | | | *8610 | *8610 | *6290 | *6290 | | | | | *4630 | *4630 | 5.58 |
| | lb | | | *18980 | *18980 | *13870 | *13870 | | | | | *10210 | *10210 | |

Notes: 1. Lifting capacities are based on ISO 10567.

2. Lifting capacities 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 hook (standard equipment) located on the back of the bucket.

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

| ENGINE | STD | OPT |
|--|-----|-----|
| CUMMINS B6.7 Engine | • | |
| HYDRAULIC SYSTEM | | |
| INTELLIGENT POWER CONTROL (IPC) | | |
| 3-power mode, 2-work mode, user mode | • | |
| Variable Power Control | • | |
| Electrical Pump Flow Control (EPFC) | • | |
| Attachment Mode Flow Control | • | |
| Engine Auto Idle | • | |
| Engine Auto Shutdown Control | • | |
| Electronic Fan Control | • | |
| Hyundai Bio Hydraulic Oil (HBHO) | | • |
| CAB & INTERIOR | | |
| ISO STANDARD CABIN | | |
| Rise-up type windshield wiper | • | |
| Radio / USB player | • | |
| Handsfree mobile phone system with USB | • | |
| 12 volt power outlet (24V DC to 12V DC converter) | • | |
| Electric horn | • | |
| All-weather steel cab with 360° visibility | • | |
| Safety Glass - Tempered Glass | • | |
| Safety Glass - Laminated Glass, Front Window & Glass | | • |
| Safety Glass windows | • | |
| Sliding fold-in front window | • | |
| Sliding side window(LH) | • | |
| Lockable door | • | |
| Hot & cool box | • | |
| Storage compartment & Ashtray | • | |
| Transparent cabin roof-cover | • | |
| Sun visor | • | |
| Door and cab locks, one key | • | |
| 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 | • | |
| LED room lamp | • | |
| 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 | • | |
| 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 FOPS (ISO 10262) LEVEL 2 | | |
| FOPS (Falling Object Protective Structure)-ISO 10262 Level 2 | | • |

| CAB & INTERIOR | STD | OPT |
|---|-----|-----|
| CABIN ROPS (ISO 12117-2) | | |
| ROPS (Roll Over Protective Structure) | • | |
| SAFETY | | |
| Lifting Mode | • | |
| 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 | | • |
| Electronic swing parking brake control | • | |
| 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 | | • |
| Two outside rearview mirror | • | |
| OTHERS | | |
| BOOMS | | |
| 5.68 m mono, 18' 8" | • | |
| 5.65 m 2-piece, 18' 6" | | |
| ARMS | | |
| 2.0 m, 6' 7" | | • |
| 2.4 m, 7' 10" | | • |
| 2.92 m, 9' 7" | • | |
| Removable clean-out dust net for cooler | • | |
| Removable reservoir tank | • | |
| Fuel warmer | | • |
| Self-diagnostics system | • | |
| Hi-mate (Remote Management System) | • | |
| Batteries (2 x 12V x 100 AH) | • | |
| Fuel filler pump (50 L/min) | | • |
| Single-acting piping kit (breaker, etc.) | | • |
| Double-acting piping kit (clamshell, etc.) | • | |
| Rotating Piping Kit | | • |
| Air Compressor | | • |
| Engine coolant heater | | • |
| LED lamp | | • |
| Smart button key | | • |
| Electrical proportional Switch on RCV | • | |
| Quick coupler piping | • | |
| Quick coupler | • | |
| 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 600mm (1' 12") | | • |
| Triple grousers shoe 700mm (2' 4") | | • |
| Triple grousers shoe 800mm (2' 7") | • | |
| Track rail guard | • | |
| Dozer blade | | • |

* 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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