

CRAWLER EXCAVATOR

HX220AL



SPECIFICATIONS

ENGINE	
Maker / Model	Cummins B6.7 / STAGE V
Type	Turbocharged, charge air cooled, diesel engine
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	881 N m (650 lb ft) 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 × 222 l/min
Sub-pump for pilot circuit	Gear pump
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 (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	265 kgf/cm ² (3,770 psi)
Pilot circuit	40 kgf/cm ² (570 psi)
Service valve	Installed
HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: Ø 120 × 1,290 mm
	Arm: Ø 140 × 1,510 mm
	Bucket: Ø 120 × 1,055 mm

* Hyundai Bio Hydraulic Oil (HBHO) available.

DRIVING AND BRAKING	
Drive method	Fully hydrostatic type
Driving Motor	Axial piston motor, in-shoe design
Deceleration 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

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

CAPACITIES			
	liter	US gal	UK gal
Fuel tank	400	106	88
Engine coolant	40	10.6	8.8
Engine oil	23.1	6.1	5.1
Swing device	6.2	1.64	1.36
Final Drive (each)	4.5	1.2	1
Hydraulic system (including tank)	275	72.6	60.5
Hydraulic tank	155	40.9	34.1
DEF/AdBlue®	48	12.6	10.5

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

OPERATING WEIGHT (APPROXIMATE)	
Operating weight, including 5,680 mm (18' 8") boom, 2,920 mm (9' 7") arm, SAE heaped 0.92 m ³ (1.20 yd ³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.	

OPERATING WEIGHT				
Shoes		Operating weight		Ground pressure
Type	Width mm (in)		kg (lb)	kgf/cm ² (psi)
Triple grouser	600 (24")	HX220AL	22,100 (48,720)	0.47 (6.71)
		HX220ALHW	23,560 (51,940)	0.50 (7.15)
	700 (28")	HX220AL	22,380 (49,340)	0.41 (5.82)
		HX220ALHW	23,840 (52,560)	0.44 (6.20)
	800 (32")	HX220AL	22,660 (49,960)	0.36 (5.16)
		HX220ALHW	24,120 (53,170)	0.39 (5.49)
900 (36")	HX220AL	22,940 (50,570)	0.33 (4.64)	
	HX220ALHW	24,400 (53,790)	0.35 (4.94)	
Double grouser	700 (28")	HX220ALHW	24,040 (53,000)	0.44 (6.25)

AIR CONDITIONING SYSTEM	
The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential: 1,430) The system holds 0.75kg refrigerant consisting of a CO ₂ of 1.07 metric tonnes. For more information, please refer to the manual.	

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