



PT. UNITED EQUIPMENT INDONESIA

PROVEN PRODUCT | PROVEN SERVICES



**HX210HD  
HX220HD  
HX220SLR**

	Operating Weight	Gross Power	Bucket Capacity
HX210HD	21,380 kg	110 kW (148 HP) at 2000 rpm	0.92m <sup>3</sup>
HX220HD	22,200 kg		1.20m <sup>3</sup>
HX220SLR	24,390 kg		0.52m <sup>3</sup>

# SPECIFICATIONS

ENGINE	
Maker / Model	Hyundai 6BTA-5.9 (HMS-9)
Type	Water cooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, charge air cooled, Low emission
Rated Power	148 HP (110 kW) at 2,000 rpm
Rated Horsepower	145 HP (108 kW) at 2,000 rpm
SAE	J1995 (gross)
DIN	6271/1 (gross)
Power	150 PS (110 kW) at 2,000 rpm
	147 PS (108 kW) at 2,000 rpm
	6271/1 (net)

Max. Torque	64 kgf-m (463 lbf-ft) at 1,300 rpm
Bore X Stroke	102 X 120 mm (4" X 4.7")
Piston Displacement	5,900 cc (360 in <sup>3</sup> )
Batteries	2 X 12 V X 100 Ah
Starting Motor	24 V, 4.5 kW
Alternator	24 V, 70 Amp

HYDRAULIC SYSTEM	
MAIN PUMP	
Type	Variable displacement tandem-axis piston pumps
Max. Flow	2 X 234 ½/min (61.8 US gpm / 51.4 UK gpm)
Sub-Pump for Pilot Circuit	Gear pump
Cross-sensing and fuel saving pump system	

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 <sup>2</sup> (4,978 psi)
Travel	350 kgf/cm <sup>2</sup> (4,978 psi)
Swing Circuit	265 kgf/cm <sup>2</sup> (3,769 psi)
Pilot Circuit	40 kgf/cm <sup>2</sup> (568 psi)
Service Valve	Installed

HYDRAULIC CYLINDERS	
No. of Cylinder	Boom: 2-120 X 1,290 mm (4.7" X 50.8")
Bore X Stroke	Arms: 1-140 X 1,510 mm (5.5" X 59.4") Bucket: 1-320 X 1,055 mm (4.72" 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	21,100 kgf (46,500 lbf)
Max. Travel Speed (high / low)	5.7 km/hr (3.54 mph) / 3.5 km/hr (2.17 mph)
Gradeability	35° (70 %)
Parking Brake	Multi wet disc

CONTROL	
Pilot Control	Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.
Traveling and Steering	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)
Engine Throttle	Two levers with pedals
Lights	Electric, Dial type One light mounted on the boom and one in the battery box

SWING SYSTEM	
Swing Motor	Fixed displacement axial pistons motor
Swing Reduction	Planetary gear reduction
Swing Bearing Lubrication	Grease-bathed
Swing Brake	Multi wet disc
Swing Speed	12.2 rpm

COOLANT & LUBRICANT CAPACITY			
Fuel Tank	liter	US gal	UK gal
Engine Coolant	340	89.8	74.8
Engine Oil	20	5.3	4.4
Swing Device	20	5.3	4.4
Final Drive (Each)	6.2	1.3	1.1
Hydraulic System (including Tank)	4.5	1.6	1.3
Hydraulic Tank	275	72.6	60.5
	160	42.3	35.2

(*) Option			
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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.	

Model	HX210HD	HX220HD
Center Frame	X-leg type	X-leg type
Track Frame	Pentagonal box type	Pentagonal box type
No. of Shoes on Each Side	46 EA	49 EA
No. of Carrier Rollers on Each Side	2 EA	2 EA
No. of Track Rollers on Each Side	7 EA	9 EA
No. of Rail Guards on Each Side	1 EA	2 EA

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

MAJOR COMPONENT WEIGHT	
Upperstructure	5,600 kg (12,350 lb)
Counterweight	3,600 kg (7,937 lb)
Boom (with Arm Cylinder)	2,070 kg (4,560 lb)

OPERATING WEIGHT				
Shoes	Operating Weight	Ground Pressure		
Type	Width mm (in)	kgf/cm <sup>2</sup> (psi)		
Triple Grouser	600 (24")	HX210HD	20,990	0.48 (6.86)
	700 (28")	HX220HD	21,420	0.45 (6.50)
	800 (32")	HX210HD	21,910	0.40 (5.66)
		HX220HD	22,200	0.35 (5.06)
		HX220SLR	24,390	0.39 (5.55)

# BUCKET SELECTION GUIDE & DIGGING FORCE

## BUCKETS

All buckets are welded with high-strength steel.



0.92 (1.20)



1.10 (1.44)  
1.20 (1.57)



0.87 (1.14)  
1.20 (1.57)



0.90 (1.18)



0.52 (0.68)

SAE heaped m<sup>3</sup> (yd<sup>3</sup>)

Type	Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)	Weight kg (lb)	Tooth EA	Recommendation mm (ft-in)			
	SAE heaped	CECE heaped				5,680 (18' 8") Boom Arm	5,680 (18' 8") Boom Arm	5,680 (18' 8") Boom Arm	5,680 (18' 8") Boom Arm
HX210HD	0.92 (1.20)	0.80 (1.05)	1,080 (42.5')	725 (1,600)	5	2,000 (6' 7")	2,000 (6' 7")	2,000 (6' 7")	2,000 (6' 7")
	0.92 (1.20)	0.92 (1.20)*	1,290 (50.8')	890 (1,960)	5	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")
	1.10 (1.44)*	0.96 (1.26)*	1,320 (52.0')	830 (1,830)	5	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")
	1.20 (1.57)	1.00 (1.31)	1,330 (52.4')	810 (1,790)	5	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")
	1.10 (1.44)*	0.80 (1.05)	1,080 (42.5')	830 (1,830)	5	2,000 (6' 7")	2,000 (6' 7")	2,000 (6' 7")	2,000 (6' 7")
HX220HD	0.87 (1.14)	0.75 (0.98)	1,140 (44.9')	900 (1,980)	5	2,000 (6' 7")	2,000 (6' 7")	2,000 (6' 7")	2,000 (6' 7")
	0.87 (1.14)	1.00 (1.31)	1,410 (55.5')	1,030 (2,270)	5	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")
	0.92 (1.20)	0.80 (1.05)	1,080 (42.5')	725 (1,600)	5	2,000 (6' 7")	2,000 (6' 7")	2,000 (6' 7")	2,000 (6' 7")
	0.92 (1.20)	0.92 (1.20)*	1,290 (50.8')	890 (1,960)	5	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")
	1.10 (1.44)*	0.96 (1.26)*	1,320 (52.0')	830 (1,830)	5	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")	2,400 (7' 10")

- ◆ Heavy duty bucket
- ◇ Rock-Heavy duty bucket
- ★ Long reach bucket

- : Applicable for materials with density of 2,100 kg/m<sup>3</sup> (5,500 lb/yd<sup>3</sup>) or less
- : Applicable for materials with density of 1,800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>) or less
- ▲ : Applicable for materials with density of 1,500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>) or less
- : Not Recommended

\* Option availability varies by region. Consult your Hyundai dealer.

## ATTACHMENT

5.68 m (18' 8"), 8.20 m (26' 11") Booms and 2.0 m (6' 7"), 2.4m (7' 10"), 2.92 m (9' 7"), 6.3 m (20' 8") Arms are available.

## DIGGING FORCE

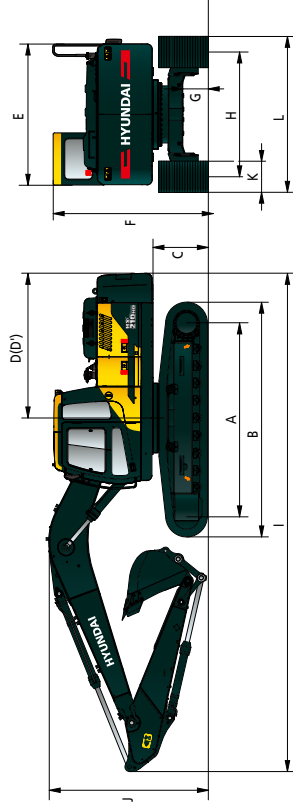
Boom	Length mm (ft.in)	5,680 (18' 8")	8,200 (26' 11")
	Weight kg (lb)	1,950 (4,300)	2,350 (5,180)
Arm	Length mm (ft.in)	2,400 (7' 10")	2,920 (9' 7")
	Weight kg (lb)	1,045 (2,300)	1,095 (2,410)
Bucket Digging Force	SAE	133.4	133.4
	kgf	13,600	13,600
	lbf	29,980	29,980
	ISO	152.0	152.0
Arm Crowd Force	SAE	14.700	10.400
	kgf	32,410	22,930
	lbf	151.0	125.5
	ISO	15,400	10,900
	lbf	33,950	24,030

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

# DIMENSIONS & WORKING RANGE

## HX210HD/HX220HD DIMENSIONS

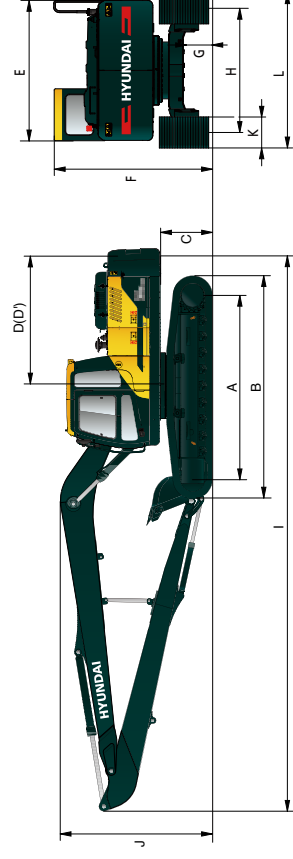
5,68 m (18' 8") Boom and 2.0 m (6' 7"), 2.4 m (7' 10"), 2.92 m (9' 7") Arm



Model	HX210HD	HX220HD	Unit : mm (ft.-in)	
A Tumbler Distance	3,360 (11' 0")	3,650 (12' 0")	5,680 (18' 8")	
B Overall Length of Crawler	4,170 (13' 8")	4,440 (14' 7")	2,000 (6' 7")	2,400 (7' 10")
C Ground Clearance of Counterweight	1,060 (3' 6")	1,060 (3' 6")	9,650 (31' 8")	9,570 (31' 5")
D Tail Swing Radius	2,845 (9' 4")	2,845 (9' 4")	3,200 (10' 6")	3,110 (10' 2")
D' Rear-end Length	2,770 (9' 1")	2,770 (9' 1")	<b>HX210HD</b>	
E Overall Width of Upperstructure	2,700 (8' 10")	2,700 (8' 10")	Track Shoe Type	Triple Grouser
F Overall Height of Cab	3,000 (9' 10")	3,000 (9' 10")	Track Shoe Width	600 (24")
G Min. Ground Clearance	470 (1' 7")	470 (1' 7")	L Overall Width	2,800 (9' 2")
H Track Gauge	2,200 (7' 3")	2,390 (7' 10")	<b>HX220HD</b>	
			Track Shoe Type	Triple Grouser
			Track Shoe Width	600 (24")
			L Overall Width	2,990 (9' 10")
				3,090 (10' 2")
				3,190 (10' 6")

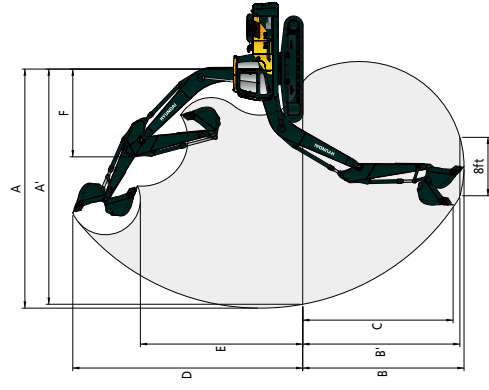
## HX220S LONG REACH DIMENSIONS

8.2 m (26' 11") boom, 6.3 m (20' 8") arm



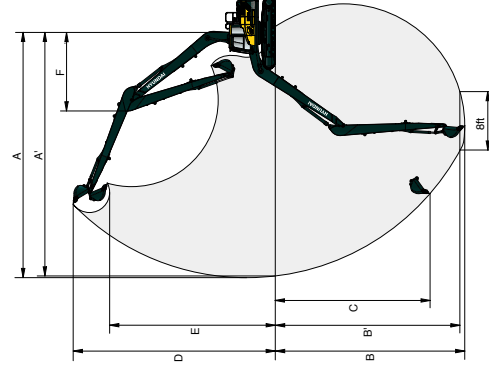
Model	HX220S	Unit : mm (ft.-in)	
A Tumbler Distance	3,650 (12' 0")	8,200 (26' 11")	
B Overall Length of Crawler	4,440 (14' 7")	6,300 (20' 8")	
C Ground Clearance of Counterweight	1,060 (3' 6")	12,030 (39' 6")	
D Tail Swing Radius	2,845 (9' 4")	3,280 (10' 9")	
D' Rear-end Length	2,770 (9' 1")	800 (32")	
E Overall Width of Upperstructure	2,700 (8' 10")	3,190 (10' 6")	
F Overall Height of Cab	3,000 (9' 10")		
G Min. Ground Clearance	470 (1' 7")		
H Track Gauge	2,390 (7' 10")		

## HX210HD/HX220HD WORKING RANGE



Model	HX210HD/HX220HD		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	9,140 (30' 0")	9,500 (31' 2")	9,980 (32' 9")
Max. Digging Reach on Ground	8,960 (29' 5")	9,330 (30' 7")	9,820 (32' 3")
B Max. Digging Depth	5,820 (19' 1")	6,220 (20' 5")	6,730 (22' 1")
B' (8' Level) Max. Digging Depth	5,580 (18' 4")	6,010 (19' 9")	6,560 (21' 6")
C Max. Vertical Wall Digging Depth	5,280 (17' 4")	5,720 (18' 9")	6,280 (20' 7")
D Max. Digging Height	9,140 (30' 0")	9,340 (30' 8")	9,600 (31' 6")
E Max. Dumping Height	6,330 (20' 9")	6,520 (21' 5")	6,780 (22' 3")
F Min. Swing Radius	3,750 (12' 4")	3,740 (12' 3")	3,670 (12' 0")

## HX220S LONG REACH WORKING RANGE



Model	HX220S	Unit : mm (ft.-in)
Boom Length	8,200 (26' 11")	
Arm Length	6,300 (20' 8")	
A Max. Digging Reach	15,220 (50' 0")	
Max. Digging Reach on Ground	15,120 (49' 7")	
B Max. Digging Depth	11,760 (38' 7")	
B' (8' Level) Max. Digging Depth	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")	

# STANDARD / OPTION

ENGINE	STD	OPT
Hyundai 6BTAA-5.9 (HM5.9)	●	
<b>HYDRAULIC SYSTEM</b>		
3-power mode, 2-work mode, user mode	●	
Variable power control	●	
Engine auto idle	●	
<b>CAB &amp; INTERIOR</b>		
<b>ISO STANDARD CABIN</b>		
Rise-up type windshield wiper	●	
Radio / USB player		●
12 volt power outlet (24V DC to 12V DC converter)	●	
Electric horn	●	
All-weather steel cab with 360° visibility	●	
Sliding fold-in front window	●	
Sliding side window(LH)	●	
Lockable door	●	
Storage compartment	●	
Sun visor	●	
Door and cab locks, one key	●	
Mechanical suspension seat	●	
Pilot-operated slidable joystick	●	
Cabin lights		●
Cabin roof-steel cover	●	
<b>AUTOMATIC CLIMATE CONTROL</b>		
Air conditioner & heater	●	
Defroster	●	
Starting aid (air grid heater) for cold weather	●	
<b>CENTRALIZED MONITORING</b>		
Engine speed or trip meter / Accel.	●	
Engine coolant temperature gauge	●	
Max power	●	
Low speed / High speed	●	
Auto idle	●	
Air cleaner clogging	●	
Indicators	●	
Fuel level gauge	●	
Hyd. oil temperature gauge	●	
Warnings	●	
Communication error	●	
Low battery	●	
Clock	●	
<b>CABIN FOPS (ISO 10262) LEVEL 2</b>		
FOPS(Falling Object Protective Structure) ISO 10262 Level 2	Front & Tops guard	○

SAFETY	STD	OPT
Battery master switch	●	
Two front working lights (1 boom mounted, 1 front frame mounted)	●	
Travel alarm		●
Beacon lamp		●
Automatic swing brake	●	
Boom holding system	●	
Arm holding system	●	
Two outside rearview mirror	●	
Wire net guard		●
<b>ATTACHMENT</b>		
<b>BOOMS</b>		
5.68m, 18' 8" Heavy Duty	●	
8.20m, 26' 11" Long Reach		○
<b>ARMS</b>		
2.00m, 6' 7"		●
2.40m, 7' 10"		●
2.92m, 9' 7" Heavy Duty	●	
6.30m, 20' 8" Long Reach		○
<b>OTHERS</b>		
Pre-Cleaner		●
Removable clean-out dust net for cooler	●	
Removable reservoir tank	●	
Fuel pre-filter	●	
Self-diagnostics system	●	
Hi MATE (Remote Management System)		●
Batteries (2 x 12V x 100 AH)	●	
Fuel filler pump (35 L/min)		●
Single-acting piping kit (breaker, etc.)		●
Accumulator for lowering work equipment	●	
Tool kit		●
<b>COUNTERWEIGHT</b>		
3.6 ton CWT	●	
4.2 ton CWT		●
5.3 ton CWT		○
<b>UNDERCARRIAGE</b>		
Lower frame under cover (additional)		○
Lower frame under cover (normal)	●	
<b>TRACK SHOES</b>		
Triple grouser shoes (600mm, 24")	●	
Triple grouser shoes (700mm, 28")		○
Triple grouser shoe (800mm, 32")		●
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.

○ Option availability varies by region. Consult your Hyundai dealer.



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