

# SPECIFICATIONS

# HX900L

Tier 4 Final Engine

## Net Power

SAE J1349 / 615 HP  
(458 kW) at 1,800 rpm

## Bucket Range

3.6 m<sup>3</sup> - 5.8 m<sup>3</sup>  
4.71 yd<sup>3</sup> - 7.59 yd<sup>3</sup>  
**Standard Bucket**  
4.2 m<sup>3</sup> (5.6 yd<sup>3</sup>)

## Operating Weight

93,700 kg (206,570 lb)

ENGINE			
Make / model	Scania DC16 084A		
Type	4-cycle turbocharged, charge air cooled, diesel engine		
Rated flywheel horsepower	SAE	J1995 (gross)	641 HP (478kW) at 1,800 rpm
		J1349 (net)	615 HP (458kW) at 1,800 rpm
Max. torque	320 kgf.m (2,315 lbf.ft) at 1,400 rpm		
Bore x stroke	130 mm X 154 mm (5.1" X 3.1")		
Piston displacement	16,400 cc (1,000 in <sup>3</sup> )		
Batteries	4 X 12V X 160 Ah		
Starting motor	24 V - 7 kW		
Alternator	24 V - 100 Amp		

## HYDRAULIC SYSTEM

### MAIN PUMP

Type	Variable displacement tandem axis piston pumps
Max. flow	2 X 504ℓ/min (133.1 gpm)
Sub-pump for pilot circuit (Gear Pump)	27ℓ/min (7.1 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	330 kgf/cm <sup>2</sup> (4,693 psi)
Travel	360 kgf/cm <sup>2</sup> (5,120 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5,120 psi)
Swing circuit	300 kgf/cm <sup>2</sup> (4,270 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (570 psi)
Service valves	Installed

### HYDRAULIC CYLINDERS

No. of cylinders bore X stroke	Boom: 215 x 1,935 mm (8.5 x 76.2")
	Arm: 225 x 2,290 mm (8.9 x 90.2")
	Bucket: 215 x 1,593 mm (8.5 x 62.7") for 2.95 m arm

### DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	66,800 kgf (147,268 lbf)
Max. travel speed (high / low)	2.4 km / hr (1.5 mph) / 3.5 km / hr (2.2 mph)
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 8,200 mm (26' 11") boom, 4,400 mm (14' 5") arm, SAE heaped 4.25 m<sup>3</sup> (5.6yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, max 16,500 kg (36,380 lb) counterweight and all other standard equipment.

### OPERATING WEIGHT

Shoes	Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)	kgf / cm <sup>2</sup> (psi)
Double grouser	700 (28")	HX900L 92,060 (202,960)	1.18 (16.78)
	800 (32")	HX900L 92,880 (204,760)	1.04 (14.79)
	900 (36")	HX900L 93,700 (206,570)	0.93 (13.23)

### 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	6.2 rpm

### SERVICE REFILL CAPACITIES

Refilling	liters	US gal
Fuel tank	1,110	293.3
Engine coolant	70	18.5
Engine oil	38	10
Swing device	2 x 14	2 x 3.7
Final drive	2 x 20	2 x 5.3
Hydraulic system (including tank)	940	248.3
Hydraulic tank	450	118.9
DEF/AdBlue®	69	18.2

### 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	52 EA
No. of carrier roller on each side	3 EA
No. of track roller on each side	9 EA
No. of rail guard on each side	2 EA

# SPECIFICATIONS HX900L

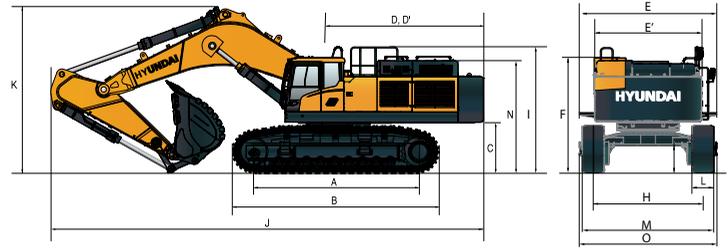
Tier 4 Final Engine

## HX900L DIMENSIONS

Unit: mm (ft-in)

7.2m (23' 7"), 8.2m (26' 11") boom  
2.95m (9' 9"), 3.6m (11' 9"), 4.4m (14' 5") arm

A	Tumbler distance	5,130 (16' 10")
B	Overall length of crawler	6,445 (21' 2")
C	Ground clearance of counterweight	1,615 (5' 4")
D	Tail swing radius	4,645 (15' 3")
D'	Rear-end length	4,550 (14' 11")
E	Overall width of upper structure	4,380 (14' 4")
F	Overall height of cab	3,420 (11' 2")
G	Min. ground clearance	880 (2' 10")
H	Track gauge	3,500 (11' 6")
I	Overall height of guardrail	4,018 (13' 2")
E	Upper structure width	3,420 (11' 3")

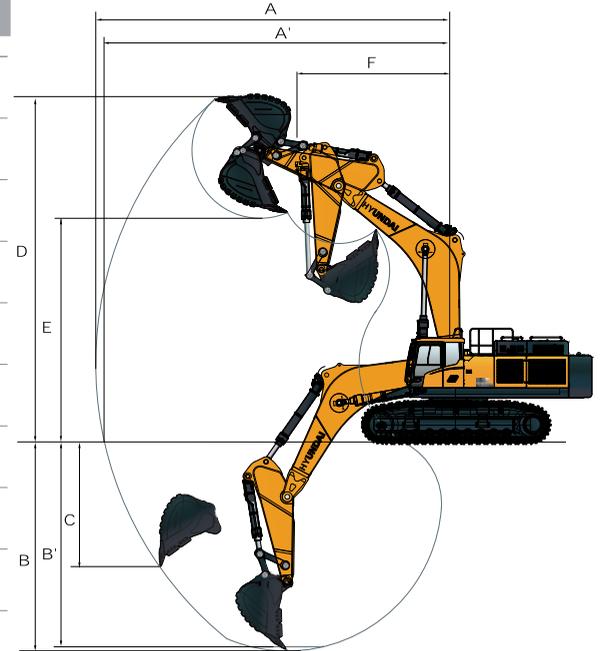


Boom length	7,200 (23' 7")	8,200 (26' 11")		
Arm length	2,950 (9' 8")	2,950 (9' 8")	3,600 (11' 9")	4,400 (14' 5")
J Overall length	13,620 (44' 8")	14,620 (47' 11")	14,460 (47' 5")	14,510 (47' 7")
K Overall height of boom	5,360 (17' 7")	5,220 (17' 1")	5,180 (16' 11")	5,440 (17' 10")
L Track shoe width	700 (28")	800 (32")	900 (36")	
M Under carriage width	4,200 (13' 9")	4,300 (14' 1")	4,400 (14' 5")	
N Engine Cover Height	3,500 (11' 6")	3,500 (11' 6")	3,500 (11' 6")	
O Overall Width	3,910 (12' 10")	4,630 (15' 2")		

## HX900L WORKING RANGE

Unit : mm (ft-in)

Boom length	7,200 (23' 7")	8,200 (26' 11")		
Arm length	2,950 (9' 8")	2,950 (9' 8")	3,600 (11' 9")	4,400 (14' 5")
A Max. digging reach	12,300 (40' 4")	13,360 (43' 10")	13,920 (45' 8")	14,670 (48' 1")
A' Max. digging reach on ground	12,020 (39' 5")	13,090 (42' 11")	13,670 (44' 10")	14,430 (47' 4")
B Max. digging depth	7,230 (23' 8")	8,160 (25' 9")	8,810 (28' 10")	9,610 (31' 6")
B' Max. digging depth (8' level)	7,090 (23' 3")	8,020 (26' 3")	8,680 (28' 5")	9,500 (31' 2")
C Max. vertical wall digging depth	4,370 (14' 4")	5,250 (17' 2")	6,000 (19' 8")	6,670 (21' 10")
D Max. digging height	11,910 (39' 1")	12,630 (41' 5")	12,780 (41' 11")	13,190 (43' 3")
E Max. dumping height	7,800 (25' 7")	8,490 (27' 10")	8,690 (28' 6")	9,030 (29' 7")
F Min. swing radius	5,100 (16' 8")	5,930 (19' 5")	5,970 (19' 7")	5,970 (19' 7")



## DIGGING FORCE

Boom	Length	mm (ft-in)	7,200 (23' 7")	8,200 (26' 11")		
	Weight	kg (lb)	8,810 (28' 11")	9,420 (30' 11")		
Arm	Length	mm (ft-in)	2,950 (9' 8")	3,600 (11' 9")	4,400 (14' 5")	
	Weight	kg (lb)	4,950 (16' 3")	4,950 (16' 3")	5,140 (16' 10")	
Bucket digging force	SAE	kN	385.4 [420.4]	385.4 [420.4]	334.3 [364.8]	334.3 [364.8]
		kgf	39,300 [42,870]	39,300 [42,870]	34,100 [37,200]	34,100 [37,200]
		lbf	86,642 [94,512]	86,642 [94,512]	75,178 [82,011]	75,178 [82,011]
	ISO	kN	439.3 [479.2]	439.3 [479.2]	381.4 [416.2]	381.4 [416.2]
		kgf	44,800 [48,870]	44,800 [48,870]	38,900 [42,440]	38,900 [42,440]
		lbf	98,767 [107,739]	98,767 [107,739]	85,760 [93,564]	85,760 [93,564]
Arm crowd force	SAE	kN	372.6 [406.5]	372.6 [406.5]	307.9 [335.9]	266.7 [291]
		kgf	38,000 [41,450]	38,000 [41,450]	31,400 [34,250]	27,200 [29,670]
		lbf	83,775 [91,381]	83,776 [91,381]	69,225 [75,508]	59,966 [65,411]
	ISO	kN	387.4 [422.6]	387.4 [422.6]	319.7 [348.7]	274.6 [299.6]
		kgf	39,500 [43,090]	39,500 [43,090]	32,600 [35,560]	28,000 [30,550]
		lbf	87,083 [94,997]	87,083 [94,997]	71,871 [78,396]	61,729 [67,351]

[Power Boost]

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: 8,200 mm (26' 11")

Arm: 4,400 mm (14' 5")

Bucket: 4.25 m<sup>3</sup> (5.6 yd<sup>3</sup>) SAE heaped

Shoe: 900 mm (36") double grouser, CWT 16,500 kg (36,380 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				
		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)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		Capacity	Reach			
																		m (ft)		
10.5 m (34.4 ft)	kg lb									*12,800 *28,220	*12,800 *28,220							*10,320 *22,750	*10,320 *22,750	9.47 (31.1)
9.0 m (29.5 ft)	kg lb											*10,170 *22,420	*10,170 *22,420					*9,760 *21,520	*9,760 *21,520	10.55 (34.6)
7.5 m (24.6 ft)	kg lb									*16,730 *36,880	*16,730 *36,880	*14,160 *31,220	*14,160 *31,220					*9,510 *20,970	*9,510 *20,970	11.33 (37.2)
6.0 m (19.7 ft)	kg lb							*21,040 *46,390	*21,040 *46,390	*18,470 *40,720	*18,470 *40,720	*16,630 *36,660	15,710 34,630					*9,480 *20,900	*9,480 *20,900	11.87 (38.9)
4.5 m (14.8 ft)	kg lb					*28,740 *63,360	*28,740 *63,360	*23,060 *50,840	*23,060 *50,840	*19,620 *43,250	19,470 42,920	*17,310 *38,160	15,260 33,640	*11,650 *25,680	*11,650 *25,680	*9,640 *21,250	*9,640 *21,250	12.19 (40.0)		
3.0 m (9.8 ft)	kg lb					*32,000 *70,550	*32,000 *70,550	*24,950 *55,010	24,440 53,880	*20,720 *45,680	18,670 41,160	*17,890 *39,440	14,770 32,560	*13,560 *29,890	11,930 26,300	*10,000 *22,050	*10,000 *22,050	12.33 (40.5)		
1.5 m (4.9 ft)	kg lb					*33,830 *74,580	32,210 71,010	*26,250 *57,870	23,330 51,430	*21,510 *47,420	17,950 39,570	*18,270 *40,280	14,320 31,570	*14,120 *31,130	11,680 25,750	*10,590 *23,350	*10,590 *23,350	12.28 (40.3)		
Ground Line	kg lb			*16,130 *35,560	*16,130 *35,560	*34,000 *74,960	31,220 68,830	*26,670 *58,800	22,560 49,740	*21,780 *48,020	17,410 38,380	*18,270 *40,280	13,960 30,780	*12,150 *26,790	11,500 25,350	*11,480 *25,310	11,450 25,240	12.04 (39.5)		
-1.5 m (-4.9 ft)	kg lb			*23,380 *51,540	*23,380 *51,540	*32,740 *72,180	30,790 67,880	*26,100 *57,540	22,120 48,770	*21,320 *47,000	17,080 37,650	*17,640 *38,890	13,750 30,310			*12,810 *28,240	11,990 26,430	11.60 (38.1)		
-3.0 m (-9.8 ft)	kg lb	*22,010 *48,520	*22,010 *48,520	*32,840 *72,400	*32,840 *72,400	*30,200 *66,580	*30,200 *66,580	*24,430 *53,860	21,990 48,480	*19,920 *43,920	16,970 37,410	*15,960 *35,190	13,740 30,290			*14,630 *32,250	13,040 28,750	10.94 (35.9)		
-4.5 m (-14.8 ft)	kg lb	*31,900 *70,330	*31,900 *70,330	*31,930 *70,390	*31,930 *70,390	*26,240 *57,850	*26,240 *57,850	*21,400 *47,180	*21,400 *47,180	*17,090 *37,680	*17,090 *37,680					*13,860 *30,560	*13,860 *30,560	10.01 (32.8)		
-6.0 m (-19.7 ft)	kg lb			*24,070 *53,070	*24,070 *53,070	*20,280 *44,710	*20,280 *44,710	*16,250 *35,830	*16,250 *35,830							*12,210 *26,920	*12,210 *26,920	8.72 (28.6)		

### NOTES:

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



# SPECIFICATIONS HX900L

Tier 4 Final Engine

ENGINE	STD	OPT
Scania DC16 084A	•	
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		
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	•	
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		
7.2m (23' 7")		•
8.2m (26' 11")	•	
Arms		
2.95m (9' 9")		•
3.6m (11' 9")		•
4.4m (14' 5")	•	
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 (4 x 12V x 160 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		
Double grouser shoes (700 mm, 28")		•
Double grouser shoes (800 mm, 32")		•
Double 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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