KOMAC
Technology with Passion

DE TIERED MACHINE

Powerful Performance ! Unmatched Results !

*Photo may include optional equipment

HX-300L

Net Power	Bucket Range	Standard Bucket	Operating Weight
SAE J1349 / 230 HP (171kW) at 1,950rpm	0.52-1.85m³ (0.68-2.42yd³)	1.27m³ (1.66yd³)	31,650kg / 69,780lb

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Precision Unleashed, Progress Ensured

When exporting construction machinery operating in countries with strict emission regulations, engine trouble may occur if fuel that does not meet the machine specifications is used. In order to prevent such troubles at KOMAC when distributing to areas where there are no emission regulations, we recommend "De-Tier".*

What is "De-Tier" Work?

- Remove the muffler filter and EGR system.
- As the model will be changed, a new serial plate will be issued.
- A "D Edition" sticker will be attached as proof of the De-Tier.

Benefit of De-Tier

- You can prevent engine trouble and reduce high maintenance costs.
- It can operate a wide range of countries regardless of the fuel conditions.
- For developed countries with strict emission regulations, there are more options for exporting used equipment

KOMAC
Technology with Passion

Excavate Effortlessly, Conquer Confidently!

SPECIFICATION
Tier 4, 5 Final Engine → Tier 3

ENGINE		
Make / model		Cummins QSB6.7
Type		4-cycle turbocharged, charge air-cooled, diesel engine
Rated flywheel horsepower SAE	J1995 (gross)	242 HP (180 kW) at 1,950 rpm
	J1349 (net)	230 HP (171 kW) at 1,950 rpm
Max. torque		100.9 kgf·m (729.8 lbf·ft) at 1,500 rpm
Bore X stroke		107 × 124 mm (4.21" × 4.88")
Piston displacement		6,700 cc (409 in³)
Batteries		2 × 12 V × 160 Ah
Starting motor		24 V - 4.8 kW
Alternator		24 V - 95 Amp

HYDRAULIC SYSTEM	
MAIN PUMP	
Type	Variable displacement tandem axis piston pumps
Max. flow	2 × 273 ℓ/min (72.1 gpm)
Sub-pump for pilot circuit (Gear Pump)	29.25 ℓ/min (7.7 gpm)

CROSS-SENSING AND FUEL SAVING PUMP SYSTEM	
HYDRAULIC MOTORS	
Travel	Variable-displacement axial piston motor
Swing	Axial piston motor

RELIEF VALVE SETTING	
Implement circuits	400 kgf/cm² (5,690 psi)
Travel	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,400 psi)
Swing circuit	300 kgf/cm² (4,270 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinders bore X stroke	Boom: 140 x 1,465 mm (5.5 × 57.7")
	Arm: 150 x 1,765 mm (5.9 × 69.5")
	Bucket: 135 x 1,185 mm (5.3 × 46.7")

DRIVES & BRAKES	
Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	26,500 kgf (58,420 lbf)
Max. travel speed (high / low)	5.9 km/hr (3.67 mph) / 3.3 km/hr (2.05 mph)
Gradeability	35° (70%)
Parking brake	Multi wet disc brake

CONTROL	
Pilot pressure operated joysticks and pedals 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 6,250 mm (20' 6") boom, 3,050 mm (10' 0") arm, SAE heaped 1.27 m³ (1.66 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, 5,600 kg (12,350 lb) counterweight and all standard equipment.

OPERATING WEIGHT

Shoes		Operating weight		Ground pressure
Type	Width mm (in)		kg (lb)	kgf/cm² (psi)
Triple grouser	700 (28")	HX300L	31,270 (68,940)	0.52 (7.40)
	800 (32")	HX300L	31,650 (69,780)	0.46 (6.54)
	900 (36")	HX300L	32,030 (70,610)	0.42 (5.97)

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	10.2 rpm

SERVICE REFILL CAPACITIES	liters	US gal
Refilling		
Fuel tank	500	132
Engine coolant	40	10.6
Engine oil	23	6.1
Swing device	11	2.9
Final drive (each)	7.8	2.06
Hydraulic system (including tank)	330	87
Hydraulic tank	190	50
DEF/AdBlue®	42.5	11.2

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	48 EA
No. of carrier rollers on each side	2 EA
No. of track rollers on each side	9 EA
No. of rail guards on each side	2 EA

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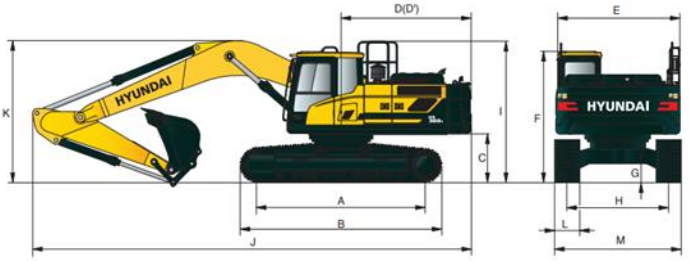


HX300L DIMENSIONS

Unit: mm (ft·in)

6.25 m (20' 6") boom and 2.1 m (6' 11"), 2.5 m (8' 2"), 3.05 m (10' 0"), 3.75 m (12' 4") arm

A	Tumbler distance	4,030 (13' 3")
B	Overall length of crawler	4,940 (16' 2")
C	Ground clearance of counterweight	1,185 (3' 9")
D	Tail swing radius	3,210 (10' 6")
D'	Rear-end length	3,120 (10' 3")
E	Overall width of upper structure	2,980 (9' 9")
F	Overall height of cab	3,130 (10' 3")
G	Min. ground clearance	500 (1' 8")
H	Track gauge	2,600 (8' 6")
I	Overall height of guardrail	3,335 (10' 9")

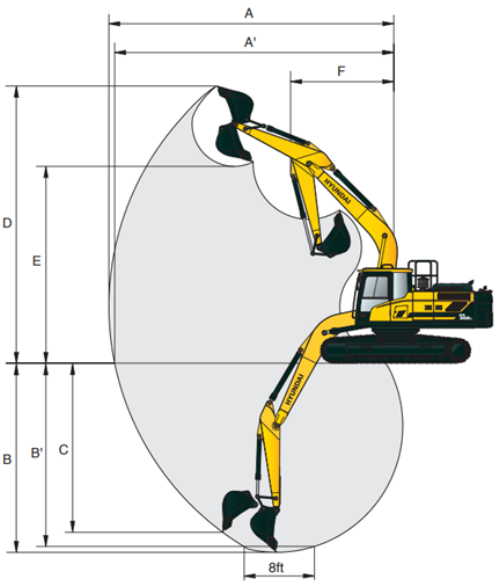
	Boom length	6,250 (20' 6")			
	Arm length	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")	3,750 (12' 4)
J	Overall length	10,700 (35' 1")	10,650 (34' 11")	10,560 (34' 8")	10,630 (34' 11")
K	Overall height of boom	3,590 (11' 9")	3,470 (11' 5")	3,290 (10' 10")	3,500 (11' 6")

L	Track shoe Type	Triple grouser				Double grouser
	Track shoe Width	600 (24")	700 (28")	800 (32")	900 (36")	700 (28")
M	Overall width	3,200 (10' 6")	3,300 (10' 10")	3,400 (11' 1")	3,500 (11' 5")	3,300 (10' 10")

HX300L WORKING RANGE

Unit : mm (ft·in)

	Boom length	6,250 (20' 6")			
	Arm length	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")	3,750 (12' 4")
A	Max. digging reach	10,020 (32' 10")	10,280 (33' 9")	10,820 (35' 6")	11,400 (37' 5")
A'	Max. digging reach on ground	9,820 (32' 3")	10,080 (33' 1")	10,620 (34' 10")	11,220 (36' 10")
B	Max. digging depth	6440 (21' 2")	6,840 (22' 5")	7,390 (24' 3")	8,090 (26' 7")
B'	Max. digging depth (8' level)	6,240 (20' 6")	6,630 (21' 9")	7,200 (23' 7")	7,920 (26' 0")
C	Max. vertical wall digging depth	6,000 (19' 8")	5,850 (19' 2")	6,380 (20' 11")	7,080 (23' 3")
D	Max. digging height	10,040 (32' 11")	10,000 (32' 10")	10,160 (33' 4")	10,360 (34' 0")
E	Max. dumping height	6,940 (22' 9")	7,030 (23' 1")	7,110 (23' 4")	7,310 (24' 0")
F	Min. swing radius	4,400 (14' 5")	4,300 (14' 1")	4,250 (13' 11")	4,200 (13' 9")



DIGGING FORCE

Boom	Length	mm (ft·in)	6,250 (20' 6")				10,200 (33' 6")	
	Weight	kg (lb)	2,670 (5,900)				3,420 (7,540)	
Arm	Length	mm (ft·in)	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")	3,750 (12' 4")	7,850 (25' 9")	
	Weight	kg (lb)	1,480 (3,260)	1,460 (3,220)	1,570 (3,460)	1,710 (3,770)	1,690 (3,730)	
Bucket digging force	SAE	kN	168.7 [183.1]	168.7 [183.1]	168.7 [183.1]	168.7 [183.1]	70	
		kgf	17,200 [18,670]	17,200 [18,670]	17,200 [18,670]	17,200 [18,670]	7,100	
		lbf	37,920 [41,170]	37,920 [41,170]	37,920 [41,170]	37,920 [41,170]	15,650	
	ISO	kN	192.2 [208.7]	192.2 [208.7]	192.2 [208.7]	192.2 [208.7]	80	[Power Boost]
		kgf	19,600 [21,280]	19,600 [21,280]	19,600 [21,280]	19,600 [21,280]	8,200	
		lbf	43,210 [46,910]	43,210 [46,910]	43,210 [46,910]	43,210 [46,910]	18,080	
Arm crowd force	SAE	kN	180.4 [195.9]	156.9 [170.4]	131.4 [142.7]	114.7 [124.6]	47.1	
		kgf	18,400 [19,980]	16,000 [17,370]	13,400 [14,550]	11,700 [12,700]	4,800	
		lbf	40,570 [44,050]	35,270 [38,290]	29,540 [32,070]	25,790 [28,000]	10,580	
	ISO	kN	190.3 [206.6]	163.8 [177.8]	136.3 [148.0]	119.6 [129.9]	48.1	
		kgf	19,400 [21,060]	16,700 [18,130]	13,900 [15,090]	12,200 [13,250]	4,900	
		lbf	42,770 [46,440]	36,820 [39,980]	30,640 [33,270]	26,900 [29,210]	10,800	

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

SPECIFICATION
Tier 4, 5 Final Engine → Tier 3

Lifting Capacity

Boom: 6.25 m (20' 6")
Arm: 3.05 m (10' 0")
Bucket: 1.27 m³ (1.66 yd³) SAE heaped
Shoe 800 mm (32") triple grouser, CWT 5,600 kg (12,350 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		
		1.5 m (4.9 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		Reach
7.5 m	kg													*5,130	*5,130	7.30
24.6 ft	lb													*11,320	*11,320	(24.0)
6.0 m	kg									*7,000	6,200			*4,910	*4,910	8.24
19.7 ft	lb									*15,430	13,670			*10,820	*10,820	(27.0)
4.5 m	kg							*9,030	8,540	*8,190	6,040			*4,890	4,630	8.82
14.8 ft	lb							*19,910	18,820	*18,050	13,320			*10,780	10,210	(28.9)
3.0 m	kg					*14,430	12,320	*10,720	8,080	9,020	5,820	*6,110	4,390	*5,040	4,300	9.12
9.8 ft	lb					*31,810	27,170	*23,640	17,820	19,880	12,830	*13,460	9,690	*11,110	9,480	(29.9)
1.5 m	kg					*17,310	11,530	*12,320	7,680	8,780	5,600	6,680	4,300	*5,370	4,190	9.16
4.9 ft	lb					*38,160	25,430	*27,150	16,920	19,350	12,360	14,720	9,470	*11,840	9,230	(30.0)
Ground Line	kg					*18,290	11,190	12,050	7,410	8,600	5,450			*5,950	4,270	8.94
	lb					*40,330	24,660	26,560	16,340	18,960	12,000			*13,120	9,410	(29.3)
-1.5 m	kg	*8,490	*8,490	*12,490	*12,490	*18,700	11,120	11,920	7,300	8,530	5,380			*6,940	4,590	8.46
-4.9 ft	lb	*18,720	*18,720	*27,540	*27,540	*41,230	24,500	26,290	16,100	18,800	11,850			*15,310	10,120	(27.7)
-3.0 m	kg	*14,740	*14,740	*20,180	*20,180	*17,780	11,220	11,960	7,340	8,590	5,440			8,370	5,310	7.65
-9.8 ft	lb	*32,490	*32,490	*44,480	*44,480	*39,210	24,730	26,380	16,180	18,950	11,990			18,460	11,710	(25.1)
-4.5 m	kg			*21,510	*21,510	*15,510	11,500	*11,430	7,560					*10,410	6,980	6.38
-14.8 ft	lb			*47,420	*47,420	*34,190	25,360	*25,200	16,670					*22,940	15,380	(20.9)

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 bucket pivot mounting pin on the arm (without bucket mass).
4. (*) indicates load limited by hydraulic capacity.

Digfinity and Beyond,
A Symphony of Power and Precision

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www.komac.co.kr
Email: hq@komac.co.kr
Tel. +82-2-760-0880
Fax. +82-2-761-0049