



# HX48Az SPECIFICATIONS

**Net Power**  
37.7 rpm (29.1 kW)  
at 2,200 rpm

**Operating Weight**  
5,080 kg (11,200 lb)

**Bucket Breakout Force**  
(ISO) 3,814 kgf /  
8,409 lbf

**Arm Digging Force**  
(ISO) 2,430 kgf /  
5,359 lbf

## ENGINE

MODEL		YANMAR / 4TNV88C	
Emissions certification		Tier-4 final	
Output	SAE	J1995 (gross)	39 rpm (29.1 kw) @ 2,200 rpm
		J1349 (net)	37.7 rpm (28.1 kw) @ 2,200 rpm
Displacement	cu.in. (cc)	133.64 (2,190)	
Number of cylinders		4	
Bore x Stroke	in. (mm)	3.46 (88) x 3.51 (90)	
Aspiration		Natural	

## HYDRAULIC SYSTEM

Pump Type		Load Sensing System	
Maximum flow	gal (L)/min	26.2 (99.00)	
Maximum Pressure	psi(bar)	3,613 (254)	
AUXILLARY HYDRAULICS			
2-Way	Flow	gpm (lpm)	21.1
	Pressure	gpm (lpm)	3,613 (254)
2-Way	Flow	gpm (lpm)	10.1 (40.0)
	Pressure	gpm (lpm)	3,613 (254)

## HYDRAULIC MOTORS

Travel	Two fixed displacement axial piston motors		
Swing	Fixed displacement axial piston motor		

## RELIEF VALVE SETTINGS

Implement circuits	psi (bar)	3,699 (260)
Travel circuit	psi (bar)	3,280 (230)
Swing circuit	psi (bar)	2,990 (210)

## HYDRAULIC CYLINDERS

Number of cylinders bore diameter x stroke	Arm cylinder	80 x 45 x 549
	Bucket cylinder	70 x 45 x 520
	Boom swing cylinder	45 x 80 x 401
	Dozer cylinder	50 x 95 x 152
	Angle dozer cylinder	55 x 100 x 152
	Angle swing cylinder	30 x 55 x 33

## TRAVEL SYSTEM

Drive motor	Two fixed displacement axial piston motors		
Reduction system	2 - stage planetary		
Max. travel speed	Low	kph	3.3
	High	kph	4.9
Gradeability	degrees	35	
Parking brake	Automatic, spring applied hydraulic released		
Traveling and steering	Two levers with pedals		
Engine throttle	Electric, dial type		

## SWING SYSTEM

Swing motor	Fixed displacement axial piston motor		
Swing reduction	2 - stage planetary		
Swing brake	Automatic, spring applied hydraulic released		
Swing speed	rpm	9.9	

## SERVICE REFILL CAPACITIES

Fuel tank	9.4
Engine coolant	12.4 (46.8)
Engine oil	2.5 (9.5)
Hydraulic tank	1.8 (7)
Hydraulic system	9.5 (36)

## UNDERCARRIAGE

No. of upper rollers on each side	16.6 (63)
No. of lower rollers on each side	4

## OPERATING WEIGHT

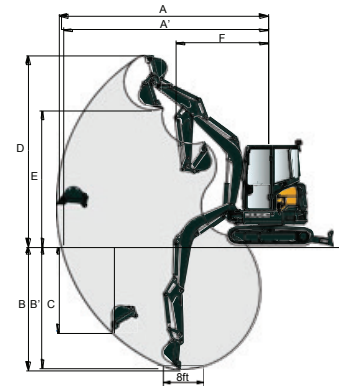
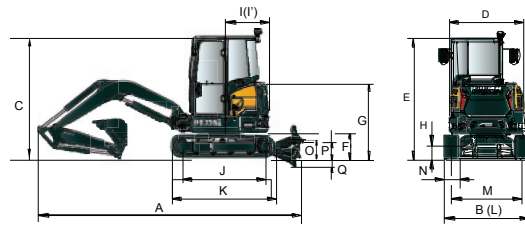
Operating weight (canopy)	lbs(kg)	11,200 (5,080)
Ground pressure (canpoy)	psi	4.79

● : Standard / ○ : Option

ENGINE	CABIN	CANOPY
Mechanical controlled Kubota engine	Adjustable Mechanical Suspension Seat ●	12V power socket ●
Electrical controlled Yanmar engine ●	Retractable seatbelt with warning alarm ●	Side Mirror ●
Double-element air filter ●	Heating & Air Conditioning ●	Cup holder ●
Auto ideling system ●	Travel levers with foot pedals ●	Horn ●
Water seperator with filter ●	Emergency hammer for exit ●	WORKING EQUIPMENT
Electric fuel filler pump ○	Power-assisted front window ●	Zero-tail ●
HYDRAULIC SYSTEM	Rear view camera ○	Boom swing function ●
Open center hydraulic system	Travel alarm ●	Arm with thumb bracket ○
Load-sensing hydraulic system ●	LED beacon lamp ○	Long arm option ○
Two-speed travel with auto-shift ●	5" Digital cluster with IP68 water & dust proof ●	Hyundai quick coupler ○
Floating dozer blade ●	Radio with USB ●	Quick coupler piping ○
Angle dozer blade ○	12V power socket ●	Additional counter weight option ○
Pressure accumulator ●	Side & Rear Mirrors ●	Safety valves for Boom/Arm/Dozer ○
Proportional Aux. control ●	Cup holder ●	Overload warning alarm ○
1 way Aux. hydraulic line for breaker ●	Pattern change valve inside cabin ●	Travel & Swing motor with discs brake ●
2 way Aux. hydraulic line for grapple ●	Horn ●	1 LED work light on boom ●
4 way Aux. hydraulic line for rotating ○	CANOPY	2 LED work lights on cabin ○
Divert valve for 2 way hydraulic ●	ROPS (Roll-over Protective structure, ISO3471) ●	UNDERCARRIAGE
Adjustable Aux. flow on cluster ●	OPS (Operator Protective Guard) Level 1 ○	Rubber track ●
CABIN	Adjustable Mechanical Suspension Seat ●	Steel track ○
ROPS (Roll-over Protective structure, ISO3471) ●	Retractable seatbelt with warning alarm ●	Interchagability bewteen rubber and steel track ●
OPS (Operator Protective Guard) Level 1 ●	Travel levers with foot pedals ●	Hi MATE
FOG Guard ○	5" Digital cluster with IP68 water & dust proof ●	Interchagability bewteen rubber and steel track ○

# DIMENSIONS & WORKING RANGE

## HX48Az



### HX48AZ DIMENSIONS

Operating Weight	kg (lb)	5,400	11,900
A Overall length		5,493	(18' 0")
B Overall width		2,000	(6' 7")
B' Overall width with additional footboard			(0' 0")
Overall width with Dozer		2,000	(6' 7")
C Overall height		2,580	(8' 6")
D Overall width of upperstructure		1,850	(6' 1")
E Overall height of cab		2,580	(8' 6")
F Ground clearance of counterweight		608	(2' 0")
G Overall height of engine hood		1,605	(5' 3")
G' Overall height of handrail			(0' 0")
H Minimum ground clearance		225	(0' 9")
I Rear-end distance	mm (ft-in)	1,075	(3' 6")
I' Rear-end swing radius		1,075	(3' 6")
J Distance between tumblers		2,000	(6' 7")
K Undercarriage length (without grouser)		2,214	(7' 3")
Undercarriage length (with grouser)			(0' 0")
L Undercarriage width		2,000	(6' 7")
L' Undercarriage width with additional footboard			(0' 0")
M Track gauge		1,600	(5' 3")
N Track shoe width, standard		400	(1' 4")
O Height of blade		400	(1' 4")
P Ground clearance of blade up		485	(1' 7")
Q Depth of blade down		670	(2' 2")
Track shoe link quantity	EA		
Travel speed (low/high)	km/hr (mph)	2.81/4.4	
Swing speed	rpm	10.08	
Gradeability	Degree (%)	35	
Ground pressure	kgf/cm (psi)	0.36	5.15
Max traction force	kg (lb)	4,650	10,250

### HX48AZ WORKING RANGE

A Max digging reach	mm (ft-in)		6,110	(20' 1")
A' Max digging reach on ground			5,970	(19' 7")
B Max digging depth			3,620	(11' 11")
B' Max digging depth (8 ft level)			3,240	(10' 8")
C Max vertical wall digging depth			1,790	(5' 10")
D Max digging height			5,670	(18' 7")
E Max dumping height		3,740	(12' 3")	
F Min swing radius		2,540	(8' 4")	
Bucket digging force	SAE	kN	30	32.6
		kgf	3,082	3,320
		lbf	6,794	7,319
	ISO	kN	33	35.2
		kgf	3,330	3,590
		lbf	7,342	7,915
Arm digging force	SAE	kN	22	23.5
		kgf	2,225	2,400
		lbf	4,906	5,291
	ISO	kN	22	23.9
		kgf	2,267	2,440
		lbf	4,998	5,379

Rating over-front Rating over-side or 360 degree

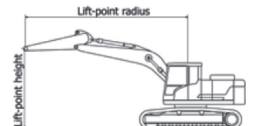
### HX48AZ LIFTING CAPACITY

Unit : mm (ft-in)

2.8m (9' 2") boom, 1.4m (4' 7") arm equipped with 400mm (1' 4"), rubber track, dozer down position.

Lift-point height (m/ft)	Lift-point radius								At max. reach			
	2.0m (6.6ft)		3.0m (9.8ft)		4.0m (13.1ft)		5.0m (16.4ft)		Capacity	Reach		
											m (ft)	
4.0m 13.1ft	kg lb					*870 1,920	790 1,740			*870 1,920	730 1,610	4.17 (13.7)
3.0m 9.8ft	kg lb					*880 1,940	790 1,740			*810 1,790	540 1,190	4.84 (15.9)
2.0m 6.6ft	kg lb		*1,380 3,040	1,220 2,690		*1,070 2,360	750 1,650	*950 2,090	500 1,100	*830 1,830	470 1,040	5.18 (17.0)
1.0m 3.3ft	kg lb		*2,000 4,410	1,100 2,430		*1,300 2,870	700 1,540	*1,030 2,270	480 1,060	*900 1,980	440 970	5.26 (17.3)
0.0m 0.0ft	kg lb	*1,190 2,620	*1,190 2,620	*2,290 5,050	1,040 2,290	*1,460 3,220	670 1,480	*1,080 2,380	470 1,040	*1,040 2,290	450 990	5.11 (16.8)
-1.0m -3.3ft	kg lb	*2,370 5,220	2,140 4,720	*2,220 4,890	1,030 2,270	*1,450 3,200	660 1,460			*1,110 2,450	520 1,150	4.68 (15.4)
-2.0m -6.6ft	kg lb	*3,080 6,790	2,200 4,850	*1,800 3,970	1,060 2,340					*1,170 2,580	710 1,570	3.87 (12.7)

- Lifting capacity are based on ISO 10567.
- Lifting capacity of 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.



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