



HX48Az SPECIFICATIONS

Net Power
37.7 hp (28.1 kW)
at 2,200 rpm

Operating Weight
11,900 lb (5,400 kg)
(cab)

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

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

ENGINE

MODEL		YANMAR / 4TNV88C	
Emissions certification		Tier-4 final	
Output	SAE	J1995 (gross)	39 hp (29.1 kW) @ 2,200 rpm
		J1349 (net)	37.7 hp (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	mm	80 x 50 x 710
	Bucket cylinder	mm	75 x 45 x 590
	Boom swing cylinder	mm	80 x 50 x 525
	Dozer cylinder	mm	115 x 60 x 212
	Angle dozer cylinder	mm	115 x 60 x 212
	Angle swing cylinder	mm	95 x 45 x 335

TRAVEL SYSTEM

Drive motor		Two fixed displacement axial piston motors	
Reduction system		2-stage planetary	
Max. travel speed	Low	mph (kph)	2.05 (3.3)
	High	mph (kph)	3.04 (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	gal(l)	17.6 (66.8)
Engine coolant	gal(l)	12.4 (46.8)
Engine oil	gal(l)	2.5 (9.5)
Hydraulic tank	gal(l)	1.8 (7)
Hydraulic system	gal(l)	9.5 (36)

UNDERCARRIAGE

No. of upper rollers on each side	1
No. of lower rollers on each side	4

OPERATING WEIGHT

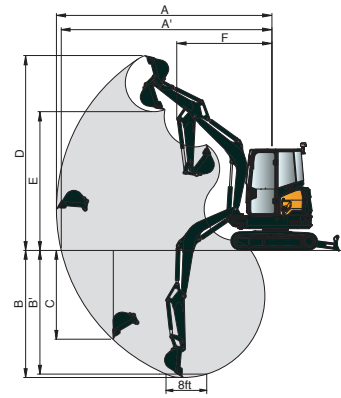
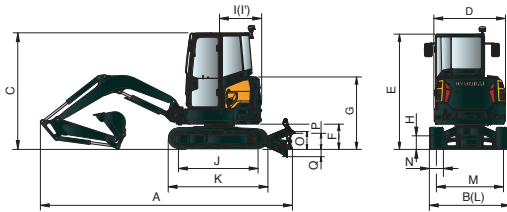
Operating weight (canopy)	lbs (kg)	10,840 (4,915)
Ground pressure (canopy)	psi	4.69
Operating weight (cab)	lbs (kg)	11,900 (5,400)
Ground pressure (cab)	psi	5.15

● : 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 ●
Load-sensing hydraulic system ●	Travel alarm ●	Arm with thumb bracket ○
Two-speed travel with auto-shift ●	LED beacon lamp ○	Long arm option ●
Floating dozer blade ●	5" Digital cluster with IP68 water & dust proof ●	Hyundai quick coupler ○
Angle dozer blade ○	Radio with USB ●	Quick coupler piping ○
Pressure accumulator ●	12V power socket ●	Additional counter weight option ○
Proportional Aux. control ●	Side & Rear Mirrors ●	Safety valves for Boom/Arm/Dozer ○
1 way Aux. hydraulic line for breaker ●	Cup holder ●	Overload warning alarm ○
2 way Aux. hydraulic line for grapple ●	Pattern change valve inside cabin ●	Travel & Swing motor ●
4 way Aux. hydraulic line for rotating ○	Horn ●	1 LED work light on boom ●
Divert valve for 2 way hydraulic ●	CANOPY	2 LED work lights on cabin ○
Adjustable Aux. flow on cluster ●	ROPS (Roll-over Protective structure, ISO3471) ●	UNDERCARRIAGE
CABIN	OPS (Operator Protective Guard) Level 1 ○	Rubber track ●
ROPS (Roll-over Protective structure, ISO3471) ●	Adjustable Mechanical Suspension Seat ●	Steel track ○
OPS (Operator Protective Guard) Level 1 ●	Retractable seatbelt with warning alarm ●	Interchagability bewteen rubber and steel track ●
FOG Guard ○	Travel levers with foot pedals ●	Telematics
	5" Digital cluster with IP68 water & dust proof ●	Hi-Mate: Mobile (4G) Type ●

DIMENSIONS & WORKING RANGE

HX48Az



HX48AZ DIMENSIONS

Operating Weight (cab)	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 ² (psi)	0.36	5.15
Max traction force	kg (lb)	4,650	10,250

HX48AZ WORKING RANGE

A Max digging reach		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")	
		STD Arm	Long Arm	
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

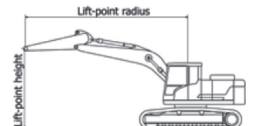
HX48AZ LIFTING CAPACITY

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	
4.0m 13.1ft	kg								*1,120	900	3.97
	lb								*2,470	1,980	(13.0)
3.0m 9.8ft	kg			*1,080	890				*1,090	680	4.68
	lb			*2,380	1,960				*2,400	1,500	(15.4)
2.0m 6.6ft	kg		*1,680	1,340	*1,250	860	*1,110	600	*1,070	600	5.03
	lb		*3,700	2,950	*2,760	1,900	*2,450	1,320	*2,360	1,320	(16.5)
1.0m 3.3ft	kg		*2,260	1,240	*1,470	820	*1,170	590	*1,130	570	5.12
	lb		*4,980	2,730	*3,240	1,810	*2,580	1,300	*2,490	1,260	(16.8)
0.0m 0.0ft	kg		*2,440	1,210	*1,590	800			*1,180	590	4.95
	lb		*5,380	2,670	*3,510	1,760			*2,600	1,300	(16.3)
-1.0m -3.3ft	kg	*2,380	*2,380	*2,270	1,210	*1,520	790		*1,210	680	4.51
	lb	*5,250	*5,250	*5,000	2,670	*3,350	1,740		*2,670	1,500	(14.8)
-2.0m -6.6ft	kg	*2,750	2,470	*1,710	1,240				*1,180	930	3.65
	lb	*6,060	5,450	*3,770	2,730				*2,600	2,050	(12.0)

- 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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