

Net Power
24.2 hp (17.8 kW)
at 2,200 rpm

Operating Weight
9,350 lb (4,240 kg)

Bucket Breakout Force
5,919 lbf /
(ISO) 2,685 kgf

Arm Digging Force
3,577 lbf /
(ISO) (1,623 kgf)

ENGINE

MODEL		KUBOTA D1703	
Emissions certification		Tier-4 final	
Output	SAE	J1995 (gross)	25.2 hp (18.5 kW) @ 2,200 rpm
		J1349 (net)	24.2 hp (17.8 kW) @ 2,200 rpm
Displacement	cu.in. (cc)	101 (1,647)	
Number of cylinders		3	
Bore x stroke	in. (mm)	3.43 (87.0) x 3.64 (92.4)	
Aspiration		Natural	

HYDRAULIC SYSTEM

Pump type		Variable tandem axis piston pumps	
Maximum flow	gpm (lpm)	9.7 (37.4) x 2 + 6.1 (23.1)	
Maximum pressure	psi (bar)	3,280 (230)	

AUXILLARY HYDRAULICS

2-Way	Flow	gpm (lpm)	14.3 (54)
	Pressure	gpm (lpm)	3,699 (260)
2-Way	Flow	gpm (lpm)	14.3 (54)
	Pressure	gpm (lpm)	3,699 (260)

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	in (mm)	3.15 x 1.77 x 2.61 (80 x 45 x 549)
	Bucket cylinder	in (mm)	2.75 x 2.61 x 20.47 (70 x 45 x 520)
	Boom swing cylinder	in (mm)	2.61 x 3.15 x 15.79 (45 x 80 x 401)
	Dozer cylinder	in (mm)	1.97 x 3.74 x 5.98 (50 x 95 x 152)
	Angle dozer cylinder	in (mm)	2.17 x 3.94 x 5.98 (55 x 100 x 152)
	Angle swing cylinder	in (mm)	1.18 x 2.17 x 1.30 (30 x 55 x 33)

TRAVEL SYSTEM

Drive motor		Two fixed-displacement axial piston motors	
Reduction system		2-stage planetary	
Max. travel speed	Low	mph (kph)	1.59 (2.56)
	High	mph (kph)	2.74 (4.41)
Displacement	cu.in. (cc)	101 (1,647)	
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 bearing lubrication		9.4	

SERVICE REFILL CAPACITIES

Fuel tank	gal (ℓ)	12.4 (46.8)
Engine coolant	gal (ℓ)	2.5 (9.5)
Engine oil	gal (ℓ)	1.8 (7)
Hydraulic tank	gal (ℓ)	9.5 (36)
Hydraulic system	gal (ℓ)	16.6 (63)

UNDERCARRIAGE

No. of track shoes on each side	22
No. of upper rollers on each side	1
No. of lower rollers on each side	4

OPERATING WEIGHT

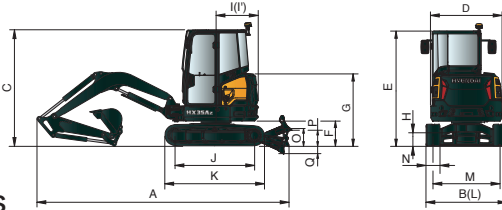
Operating weight (canopy)	lb (kg)	8,640 (3,920)
Ground pressure (canopy)	psi	5.13
Operating weight (cab)	lb (kg)	9,350 (4,240)
Ground pressure (cab)	psi	5.55

● : Standard / ○ : Option

ENGINE	CABIN	CANOPY
Mechanically controlled Kubota engine	●	Adjustable mechanical suspension seat ●
Double-element air filter	●	Retractable seatbelt with warning alarm ●
Auto-idling system	●	Heating and air conditioning ●
Water separator with filter	●	Travel levers with foot pedals ●
Electric fuel filler pump		Emergency hammer for exit ●
HYDRAULIC SYSTEM		WORKING EQUIPMENT
Open-center hydraulic system	●	Power-assisted front window ●
Two-speed travel with auto-shift	●	LED beacon lamp ○
Floating dozer blade	●	5-in digital cluster, IP68-rated water and dust proof ●
Angle dozer blade	○	Radio with USB ●
Pressure accumulator	●	12V power socket ●
Proportional aux. control	○	Side and rear mirrors ●
1-way aux. hydraulic line for breaker	●	Cup holder ●
2-way aux. hydraulic line for grapple	●	Pattern change valve inside cabin ●
4-way aux. hydraulic line for rotating	○	Horn ●
Divert valve for 2-way hydraulic	●	CANOPY
Adjustable aux. flow on cluster	●	ROPS (Roll-Over Protective Structure, ISO3471) ●
CABIN		OPS (Operator Protective Structure) Level 1 ○
ROPS (Roll-Over Protective Structure, ISO3471)	●	Adjustable mechanical suspension seat ●
OPS (Operator Protective Structure) Level 1	●	Retractable seatbelt with warning alarm ●
FOG (Falling Object Guard)	○	Travel levers with foot pedals ●
		5-in digital cluster, IP68-rated water and dust proof ●
		UNDERCARRIAGE
		Rubber track ●
		Steel track ○
		Interchangeability between rubber and steel track ●
		Telematics
		Hi MATE -- mobile (4G) type ●

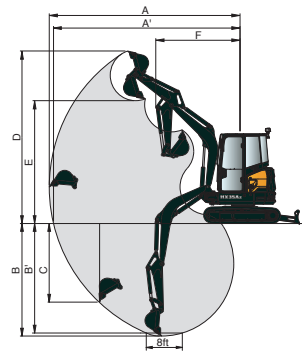
DIMENSIONS & WORKING RANGE

HX35Az



HX35AZ DIMENSIONS

Operating weight	kg (lb)	4,240	(9,350)
A Overall length		4,772	(15' 8")
B Overall width		1,740	(5' 9")
B' Overall width with additional footboard			(0' 0")
Overall width with dozer		1,740	(5' 9")
C Overall height		2,505	(8' 3")
D Overall width of upperstructure		1,540	(5' 1")
E Overall height of cab		2,505	(8' 3")
F Ground clearance of counterweight		525	(1' 9")
G Overall height of engine hood		1,545	(5' 1")
G' Overall height of handrail			(0' 0")
H Minimum ground clearance		167	(0' 7")
I Rear-end distance	mm	985	(3' 3")
I' Rear-end swing radius	(ft-in)	985	(3' 3")
J Distance between tumblers		1,690	(5' 7")
K Undercarriage length (without grouser)		2,128	(7' 0")
Undercarriage length (with grouser)			(0' 0")
L Undercarriage width		1,740	(5' 9")
L' Undercarriage width with additional footboard			(0' 0")
M Track gauge		1,440	(4' 9")
N Track shoe width, standard		300	(1' 0")
O Height of blade		394	(1' 4")
P Ground clearance of blade up		408	(1' 4")
Q Depth of blade down		460	(1' 6")



HX35AZ WORKING RANGE

			5,740	(18' 10")
A Max digging reach			5,630	(18' 6")
A' Max digging reach on ground			3,440	(11' 3")
B Max digging depth			3,050	(10' 0")
B' Max digging depth (8 ft level)			2,390	(7' 10")
C Max vertical wall digging depth			5,190	(17' 0")
D Max digging height			3,450	(11' 4")
E Max dumping height			2,425	(7' 11")
F Min swing radius				
			STD Arm	Long Arm
Bucket digging force	SAE	kN	24	26.2
		kgf	2,468	2,670
		lbf	5,441	5,886
	ISO	kN	26	28.5
		kgf	2,685	2,910
		lbf	5,919	6,415
Arm digging force	SAE	kN	16	16.9
		kgf	1,583	1,720
		lbf	3,491	3,792
	ISO	kN	16	17.3
		kgf	1,623	1,760
		lbf	3,577	3,880

HX35AZ DIMENSIONS

Track shoe link quantity	EA		
Travel speed (low/high)	km/hr (mph)	2.56/4.41	
Swing speed	rpm	9.4	
Gradeability	Degree (%)	35	
Ground pressure	kgf/cm (psi)	0.39	5.55
Max traction force	kg (lb)	3,039	6,700

Rating over-front Rating over-side or 360 degree

HX35AZ LIFTING CAPACITY

Unit : mm (ft-in)

2.4 m (7' 10") boom, 1.3 m (4' 3") arm equipped with 300 mm (1') rubber track, dozer down position.

Lift-point height (m/ft)		Lift-point radius						At max. reach				
		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		Capacity	Reach	
												m (ft)
4.0m	kg								*810	750	3.46	
13.1ft	lb								*1,790	1,650	(11.4)	
3.5m	kg								*770	610	3.96	
11.5ft	lb								*1,700	1,340	(13.0)	
3.0m	kg						*740	600	*760	530	4.32	
9.8ft	lb						*1,630	1,320	*1,680	1,170	(14.2)	
2.5m	kg						*750	600	*750	480	4.57	
8.2ft	lb						*1,650	1,320	*1,650	1,060	(15.0)	
2.0m	kg				*930	930	*790	590	*750	450	4.74	
6.6ft	lb				*2,050	2,050	*1,740	1,300	*1,650	990	(15.5)	
1.5m	kg				*1,110	900	*850	580	*750	430	4.83	
4.9ft	lb				*2,450	1,980	*1,870	1,280	*1,650	950	(15.9)	
1.0m	kg				*1,290	870	*910	570	*750	420	4.86	
3.3ft	lb				*2,840	1,920	*2,010	1,260	*1,650	930	(16.0)	
0.5m	kg				*1,430	840	*960	560	*760	420	4.83	
1.6ft	lb				*3,150	1,850	*2,120	1,230	*1,680	930	(15.8)	
0.0m	kg			*1,130	*1,130	*1,490	820	*980	550	*760	430	4.73
0.0ft	lb			*2,490	*2,490	*3,280	1,810	*2,160	1,210	*1,680	950	(15.5)
-0.5m	kg	*1,040	*1,040	*1,610	1,540	*1,480	820	*970	540	*760	460	4.55
-1.6ft	lb	*2,290	*2,290	*3,550	3,400	*3,260	1,810	*2,140	1,190	*1,680	1,010	(14.9)
-1.0m	kg	*1,460	*1,460	*2,210	1,550	*1,400	810	*890	540	*760	500	4.30
-3.3ft	lb	*3,220	*3,220	*4,870	3,420	*3,090	1,790	*1,960	1,190	*1,680	1,100	(14.1)
-1.5m	kg	*1,950	*1,950	*2,110	1,560	*1,230	820			*740	560	3.94
-4.9ft	lb	*4,300	*4,300	*4,650	3,440	*2,710	1,810			*1,630	1,230	(12.9)
-2.0m	kg			*1,570	*1,570	*930	830			*680	*680	3.43
-6.6ft	lb			*3,460	*3,460	*2,050	1,830			*1,500	*1,500	(11.2)
-2.5m	kg			*730	*730					*480	*480	2.63
-8.2ft	lb			*1,610	*1,610					*1,060	*1,060	(8.6)

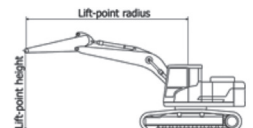
- Lifting capacities are based on ISO 10567.
- Lifting capacity of HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
- (*) indicates load limited by hydraulic capacity.



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