

HX35Az SPECIFICATIONS

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

Operating Weight
Cabin:
8,930 lb (4,050 kg)
Canopy:
8,630 lb (3,930 kg)

Bucket Digging Force (ISO)
7,232 lbf
(3,281 kgf)

Arm Crowd Force (ISO)
3,862 lbf
(1,752 kgf)
*with long arm

ENGINE

Model	KUBOTAD1703		
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 × stroke	in (mm)	3.43 (87.0) × 3.64 (92.4)	

HYDRAULIC SYSTEM

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

AUXILIARY HYDRAULICS

1st Aux.	Flow	gpm (lpm)	16.0 (60.5)
	Pressure	psi (bar)	3,699 (260)
2nd Aux.	Flow	gpm (lpm)	16.0 (60.5)
	Pressure	psi (bar)	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 × stroke	Boom cylinder	in (mm)	3.35 × 1.77 × 21.14 (85 × 45 × 537)
	Arm cylinder	in (mm)	3.15 × 1.77 × 2.61 (80 × 45 × 549)
	Bucket cylinder	in (mm)	2.75 × 2.61 × 20.47 (70 × 45 × 520)
	Boom swing cylinder	in (mm)	2.61 × 3.15 × 15.79 (45 × 80 × 401)
	Dozer cylinder	in (mm)	1.97 × 3.74 × 5.98 (50 × 95 × 152)
	Angle dozer cylinder	in (mm)	2.17 × 3.94 × 5.98 (55 × 100 × 152)
	Angle swing cylinder	in (mm)	1.18 × 2.17 × 1.30 (30 × 55 × 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 upper rollers on each side	1
No. of lower rollers on each side	4

OPERATING WEIGHT

Cabin	Operating weight	lbs (kg)	8,930 (4,050)
	Ground pressure	psi (kgf/cm ²)	5.35 (0.38)
Canopy	Operating weight	lbs (kg)	8,630 (3,930)
	Ground pressure	psi (kgf/cm ²)	5.19 (0.37)

● Standard / ○ Option

ENGINE

Mechanically controlled Kubota engine	●
Double-element air filter	●
Auto-idling system	●
Water separator with filter	●

HYDRAULIC SYSTEM

Open-center hydraulic system	●
Two-speed travel with auto-shift	●
Floating dozer blade	●
Angle dozer blade	○
Pressure accumulator	●
Proportional aux. control	○
1-way aux. hydraulic line for breaker	●
2-way aux. hydraulic line for grapple	●
4-way aux. hydraulic line for rotating	○
Diverter valve for 2-way hydraulic	●
Adjustable aux. flow on cluster	●

CABIN

ROPS (Roll-Over Protective Structure, ISO3471)	●
OPS (Operator Protective Structure) Level 1	●
FOG (Falling Object Guard)	○
Adjustable mechanical suspension seat	●
Retractable seatbelt with warning alarm	●

CABIN

Heating and air conditioning	●
Travel levers with foot pedals	●
Emergency hammer for exit	●
Power-assisted front window	●
LED beacon lamp	○
5" digital cluster, IP68-rated water and dust proof	●
Radio with USB	●
12V power socket	●
Side and rear mirrors	●
Cup holder	●
Pattern change valve inside cabin	●
Horn	●

CANOPY

ROPS (Roll-Over Protective Structure, ISO3471)	●
OPS (Operator Protective structure) Level 1	○
Adjustable mechanical suspension seat	●
Retractable seatbelt with warning alarm	●
Travel levers with foot pedals	●
5" digital cluster, IP68-rated water and dust proof	●
12V power socket	●
Side mirror	●

CANOPY

Cup holder	●
Horn	●

WORKING EQUIPMENT

Zero-tail swing	●
Boom swing function	●
Arm with thumb bracket	●
Long arm option	●
Hyundai quick coupler	●
Quick coupler piping	●
Travel alarm	●
Additional counterweight option	●
Safety valves for boom/arm	○
Overload warning alarm	○
Travel and swing motor	●
1 LED work light on boom	●
2 LED work lights on cabin	●

UNDERCARRIAGE

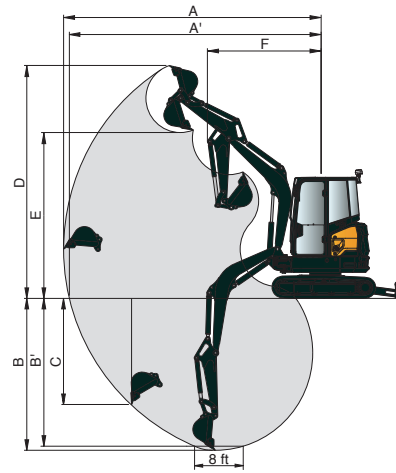
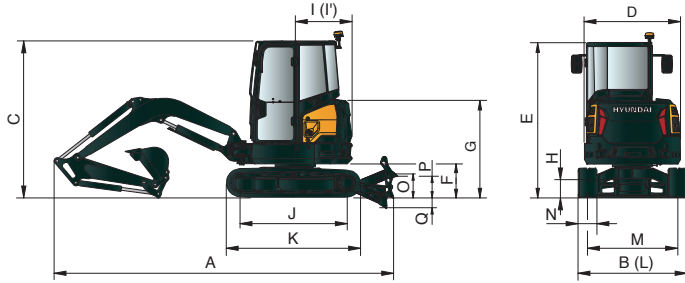
Rubber track	●
Steel track	○
Interchangeability between rubber and steel track	●

TELEMATICS

Hi MATE—mobile (4G) type	●
--------------------------	---

DIMENSIONS & WORKING RANGE

HX35Az



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

WORKING RANGE		
A Max digging reach		18' 10" (5,740)
A' Max digging reach on ground		18' 6" (5,630)
B Max digging depth		11' 3" (3,440)
B' Max digging depth (8 ft level)	ft-in	10' 0" (3,050)
C Max vertical wall digging depth	(mm)	7' 10" (2,390)
D Max digging height		17' 0" (5,190)
E Max dumping height		11' 4" (3,450)
F Min swing radius		7' 11" (2,425)

		STD Arm	LONG Arm
Bucket Digging force	SAE	kN 28.6	28.6
		kgf 2,914	2,914
		lbf 6,423	6,423
	ISO	kN 32.2	32.2
		kgf 3,281	3,281
		lbf 7,232	7,232
Arm Crowd force	SAE	kN 19.3	17.0
		kgf 1,963	1,705
		lbf 4,327	3,759
	ISO	kN 19.9	17.2
		kgf 2,025	1,752
		lbf 4,465	3,862

DIMENSIONS		
Travel speed (low/high)	mph (km/h)	1.6/2.7 (2.6/4.4)
Swing speed	rpm	9.4
Gradeability	Degree (%)	35
Ground pressure	psi (kg/cm ²)	5.55 (0.39)
Max traction force	lb (kg)	6,700 (3,039)

LIFTING CAPACITY

Cabin, 8' 2" (2.48 m) boom, 5' 3" (1.6 m) long arm, 12" (300 mm) rubber track, no bucket, dozer down position. Rating over front Rating over side or 360 degree

Lift-point height ft (m)	Lift-point radius				At maximum reach						
	3.3 ft (1.0 m)		6.6 ft (2.0 m)		9.8 ft (3.0 m)		13.1 ft (4.0 m)		Capacity	Reach	
									lb (kg)	ft (m)	
13.1 (4.0)	lb *1,790	1,650								11.4 (3.46)	
	kg *810	750									
9.8 (3.0)	lb *1,630	1,320								14.2 (4.32)	
	kg *740	600									
6.6 (2.0)	lb *2,050	2,050	*1,740	1,300	*1,650	990	*1,650	930		15.5 (4.74)	
	kg *930	930	*790	590	*750	450	*750	420			
3.3 (1.0)	lb *2,840	1,920	*2,010	1,260	*1,650	930	*1,650	420		16.0 (4.86)	
	kg *1,290	870	*910	570	*750	420	*750	420			
0.0 (0.0)	lb *2,490	*2,490	*3,280	1,810	*2,160	1,210	*1,680	950		15.5 (4.73)	
	kg *1,130	*1,130	*1,490	820	*980	550	*760	430			
-3.3 (-1.0)	lb *3,220	*3,220	*4,870	3,420	*3,090	1,790	*1,960	1,190	*1,680	1,100	14.1 (4.30)
	kg *1,460	*1,460	*2,210	1,550	*1,400	810	*890	540	*760	500	
-6.6 (-2.0)	lb *3,460	*3,460	*2,050	1,830			*1,500	*1,500		11.2 (3.43)	
	kg *1,570	*1,570	*930	830			*680	*680			

- 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.

Specifications and features are subject to change without notice.

