HITACHI

Reliable solutions

SHORT REACH FRONT



Model Code Engine Rated Power Operating Weight ZX135US-5B 73.4 kW (98 HP) 17 400 - 17 900 kg

SPECIFICATIONS

ENGINE	
Model	Isuzu AM-4JJ1X
Туре	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	Muffler filter
No. of cylinders	4
Rated power	
ISO 9249, net	73.4 kW (98 HP) at 2 000 min ⁻¹ (rpm)
EEC 80/1269, net	73.4 kW (98 HP) at 2 000 min ⁻¹ (rpm)
SAE J1349, net	73.4 kW (98 HP) at 2 000 min-1 (rpm)
Maximum torque	374 Nm (38.1 kgfm) at 1 600 min-1 (rpm)
Piston displacement	2.999 L
Bore and stroke	95.4 mm x 104.9 mm
Batteries	2 x 12 V / 58 Ah

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps

Main pumps	2 variable displacement axial piston pumps
Maximum oil flow	2 x 117 L/min
Pilot pump	1 gear pump
Maximum oil flow	33.6 L/min

Hydraulic Motors

Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor

Relief Valve Settings

Implement circuit	34.3 MPa (350 kgf/cm ²)
Swing circuit	32.3 MPa (330 kgf/cm ²)
Travel circuit	34.3 MPa (350 kgf/cm ²)
Pilot circuit	4.0 MPa (40.8 kgf/cm ²)
Power boost	36.3 MPa (370 kgf/cm ²)

Hydraulic Cylinders

	Quantity	Bore	Rod diameter
Boom	2	105 mm	70 mm
Arm	1	135 mm	95 mm
Bucket	1	130 mm	90 mm

WEIGHTS AND GROUND PRESSURE

Equipped with Boom 3.00 m, Arm 2.00 m, 4 440 kg counterweight.

Triple grouser shoe	Operating weight	Ground pressure
500 mm	17 400 kg	55 kPa (0.57 kg/cm ²)
600 mm	17 700 kg	47 kPa (0.48 kg/cm ²)
700 mm	17 900 kg	41 kPa (0.42 kg/cm ²)

Basic Machine Weight and Overall Width



Excluding front end attachment, fuel, hydraulic oil and coolant etc. Including counterweight.

Triple grouser shoe	Weight	Overall width
500 mm	12 100 kg	2 490 mm
600 mm	12 400 kg	2 590 mm
700 mm	12 600 kg	2 690 mm

Components Weight

	Weight
Counterweight	4 440 kg
Arm 2.00 m (with bucket cylinder)	1 000 kg
Boom 3.00 m (with arm cylinder and boom cylider)	1 370 kg
Bucket 0.65 m ³	560 kg

UPPERSTRUCTURE

Revolving Frame

D-section frame for resistance to deformation.

Swing Device

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulic-released disc type.			
Swing speed	13.7 min-1 (rpm)		
Swing torque	33 kNm (3 370 kgfm)		

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards. * International Standarisation Organisation

UNDERCARRIAGE

Tracks

Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

Numbers of Rollers and Shoes on Each Side

Upper roller 1 Lower rollers 7 Track shoes 44

Travel Device

Each track driven by 2-speed axial piston motor. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low. Travel speeds High : 0 to 5.5 km/h Low : 0 to 3.3 km/h

Maximum traction force 117 kN (11 900 kgf)

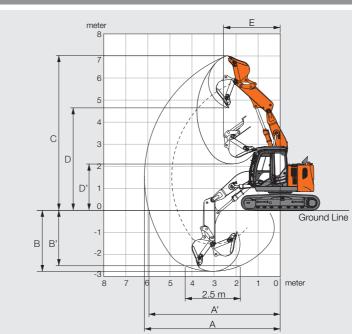
SOUND LEVEL

Sound level in cab according to ISO 6396 LpA 69 dB(A)
External sound level according to ISO 6395 and
EU Directive 2000/14/ECLwA 99 dB(A)

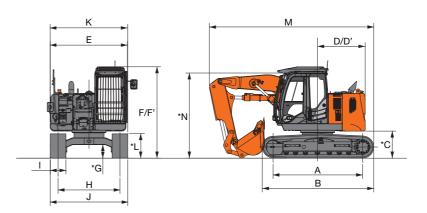
SERVICE REFILL CAPACITIES

Fuel tank	220.0 L
Engine coolant	20.0 L
Engine oil	17.0 L
Swing device	3.2 L
Travel device (each side)	4.2 L
Hydraulic system	125.0 L
Hydraulic oil tank	60.0 L

WORKING RANGES



DIMENSIONS



LIFTING CAPACITIES

Notes: 1. Ratings are based on ISO 10567.

- 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
- 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
- 4. *Indicates load limited by hydraulic capacity.
- 5. 0 m = Ground.

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.

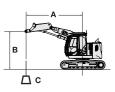
ZX135US-5B					🖞 Rating over-from	nt 🗭 Rating	over-side or 360 d	legrees Unit : kg	
	Load	Load radius				At max. reach			
Conditions	point		3.0 m		4.5 m		At max. reach		
Conditions	height	<u>"</u>	(D)	"	O	Å.	O	meter	
	m	0		U		U		meter	
Boom 3.00 m	4.5	*6 350	*6 350			*5 960	4 480	3.83	
Arm 2.00 m	3.0	*7 180	6 840	5 150	3 340	4 810	3 120	4.67	
Without Bucket	1.5	*8 860	6 320	5 020	3 220	4 320	2 780	4.91	
Shoe 500 mm	0 (Ground)	*8 810	5 990	4 920	3 130	4 640	2 970	4.66	
	-1.5	*5 710	*5 710			*4 820	*4 820	3.40	

		Unit : mm
		ZAXIS 135US
А	Max. digging reach	6 150
A'	Max. digging reach (on ground)	5 950
В	Max. digging depth	2 770
B'	Max. digging depth (2.5 m level)	2 510
С	Max. cutting height	7 020
D	Max. dumping height	4 650
D'	Min. dumping height	2 100
Е	Min. swing radius	2 570
Bucket digging force* ISO		140 kN (14 300 kgf)
Bucket digging force* SAE : PCSA		122 kN (12 500 kgf)
Arm crowd force* ISO		50 kN (5 200 kgf)
Arm crowd force* SAE : PCSA		49 kN (5 000 kgf)

Excluding track shoe lug * At power boost

Ur S 135U8	iit : mm
S 135U	-
	5
2 880	
3 580	
840	
1 530	
1 530	
2 480	
2 930	2,940
2 930	2,940
410	
1 990	
G600 / G	G700
2 590 / 2	690
2 590 / 2	690
790	
5 270	
2 730	
	2 880 3 580 840 1 530 2 480 2 930 410 1 990 3 600 / 0 2 590 / 2 2 590 / 2 790 5 270

* Excluding track shue lug G: Triple grouser shoe



A: Load radius B: Load point height C: Lifting capacity

EQUIPMENT

CAR

ENGINE

Air cleaner double filters
Auto idle system
Auto shut-down control
Cartridge-type engine oil filter
Cartridge-type fuel pre-filter
Cartridge-type fuel main filter
Cold fuel resistance valve O
Dust-proof indoor net •
Dry-type air filter with evacuator valve (with air filter restriction indicator)
Electrical fuel feed pump
ECO/PWR mode control
Engine oil drain coupler
Engine warm-up device
Fan guard •
Fuel cooler
High performance water separator
Isolation-mounted engine
Muffler filter
Radiator, oil cooler and intercooler
Radiator reserve tank •
50 A alternator •

HYDRAULIC SYSTEM

Auto power lift	•
Control valve with main relief valve	٠
Full-flow filter	٠
High mesh full flow filter with restriction indicator	0
Hose rupture valve for boom	۲
Pilot filter	٠
Power boost	۲
Suction filter	۲
Extra port for control valve	٠
Variable reliefvalve for breaker & crusher	•
Work mode selector	٠

assist)	C
All-weather sound suppressed steel cab	
AM-FM radio	
Ashtray	
Auto control air conditioner	
AUX. terminal and storage	
CRES V (Center pillar reinforced structure) cab	
Drink holder with hot & cool function	
Electric double horn	
Engine shut-off switch	
Equipped with reinforced, tinted (green color) glass windows	
Evacuation hammer	
Floor mat	•
Footrest	
Front window washer	
Windows on front, upper, lower and left side can be openend	
Glove compartment	
Hot & cool box	
Intermittent windshield wipers	
Key cylinder light	
Laminated round glass window	C
Room light with door courtesy	•
OPG front guard Level II (ISO10262) compliant cab	C
OPG top guard fitted Level II (ISO10262) compliant cab	C
Pilot control shut-off lever	
Rain guard	C
Retractable seat belt	
Rubber radio antenna	
Seat : air suspension seat with heater	•
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	
Short wrist control levers	•
Sun visor (front window/side window)	C
Transparent roof with slide curtain	•
Speakers	•
4 fluid-filled elastic mounts	•
12 V power outlet	
24 V cigarette lighter	•

MONITOR SYSTEM	
Alarm buzzers:	
overheat, engine oil pressure, overload	•
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload etc	•
Display of meters: water temperature, hour, fuel rate, clock	•
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc	•
32 languages selection	•

LIGHTS

Additional boom light with cover	0
Rotating lamp	0
2 working lights	٠

UPPER STRUCTURE

Electric fuel refilling pump with auto stop and filter	•
Fuel level float	•
Hydraulic oil level gauge	•
Rear view camera	٠
Rear view mirror (right & left side)	•
Swing parking brake	٠
Tool box	٠
Undercover	•
4 440 kg counterweight (with lifting brackets)	•
2 x 58 Ah batteries	•

..... Standard equipment O

..... Optional equipment

Bolt-on sprocket Reinforced track links with pin seals Travel motor covers Travel parking brake Track undercover Upper and lower rollers track guard (each side) and hydraulic track adjuster
Travel motor covers Travel parking brake Track undercover Upper and lower rollers 1 track guard (each side) and
Travel parking brake Track undercover Upper and lower rollers 1 track guard (each side) and
Track undercover Upper and lower rollers 1 track guard (each side) and
Upper and lower rollers 1 track guard (each side) and
1 track guard (each side) and
nyuraulio traon aujuster
2 tracks guards (each side) and O hydraulic track adjuster
4 tie down hooks
500 mm triple grouser shoes

FRONT ATTACHMENTS

Centralized lubrication system	٠
Dirt seal on all bucket pins	•
Flanged pin	٠
HN bushing	٠
Reinforced resin thrust plate	٠
WC (tungsten-carbide) thermal	•
spraying	•
Welded bucket link A	٠

ATTACHMENTS

Accessories for 2 speed selector	٠
Additional pump (30 L/min)	0
Assist piping	0
Attachment basic piping	٠
Breaker and crusher piping	٠
Parts for breaker and crusher	٠
Line filter (braker piping)	٠
Pilot accumulator	٠

MISCELLANEOUS

Global e-service	٠
Lockable fuel refilling cap	٠
Lockable machine covers	٠
Onboard information controller	٠
Skid-resistant, plates and handrails	٠
Standard tool kit	٠
Theft prevention system*	0
Travel direction mark on track frame	٠

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.

* Hitachi Construction Machinery cannot be held liable for theft, any system will just minimize the risk of theft.

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance. These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, customer installed and modified parts, optional parts and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

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