# **ZAXIS 135US** SERIES Short-Tail-Swing Version

# HITACHI





# ZAXIS OUGH IGHT SHORT-TAIL-SWING ZAXIS135US

#### High Productivity A truly high-performance machine

- •1.465 meter rear-end swing radius (285 mm less than ZAXIS70).
- •5% more production (compared to EX135USR).
- •11% more digging force (compared to EX135USR).
- •6% increase in traction force (compared to EX135USR).
- 9% less fuel consumption during light load operation from auto acceleration system (compared to normal operation).

#### Lower Running Costs Stronger structural component design

- Increased wear resistance of bucket joint: WC thermal spraying.
- New HN bushing offers improved grease retention.

#### Lower Maintenance Costs Reduced maintenance time and expense

- Extended time between bucket joint section lubrication.
- Easy maintenance.
- Extended replacement interval for hydraulic oil filter (Every 1 000 hours).

#### **US-exclusive CRES Cab**

(Corner Reinforced Structure) Provides excellent operator comfort

\* The CRES cab meets OPG top guard level I (ISO).

Low noise and low vibration in cab.



otes : 1. Never leave the front attachment in a raised position. Make sure the front attachment is lowered to the ground before leaving the equipment unattended. (Some of the pictures in this catalog show an unmanned machine with attachments in an operating position. These were taken for demonstration purposes only and the actions shown are not recommended under normal operating conditions.)

2. Caution plates on the machine will vary according to country.

Photos include optional equipment.



#### Wide Range of Job Applications

#### **Operates in Tight Job Sites**

The rear-end swing radius ZAXIS135US is 665 mm smaller than the ZAXIS120 and 285 mm smaller than the EX60-5. In addition, the minimum front swing radius is 280 mm smaller than the ZAXIS120. These smaller dimensions mean more efficiency in tight job sites.

#### **Excavating Power for Tough Job Sites**





#### Auto Acceleration System Helps Reduce **Fuel Consumption**

Engine speed is automatically controlled in response to lever operation. This

less fuel consumption

9% consumption than normal operation

helps reduce fuel consumption, especially during light-load work.

#### All Excavating Operations in a Single Mode

Simply select the "digging" mode for smooth and speedy front operations.





# Comfort UTURISTIC SPACE CREATES COMFORT

# US-Exclusive CRES Cab (CRES: Corner Reinforced Structure)

#### **Comfort Increased to Reduce Operator Fatigue**

A reinforced track X-frame, D-type frame and strong cab bed work together with the silicone-filled rubber cushions to reduce noise and vibration. Lower noise and vibration contribute to less operator fatigue.



#### **Auto Control Air Conditioner** (Option)

Simply set the temperature and forget about it. Ducts are positioned to promote even air flow throughout the cab.

\* Illustration shows a sample of the air flow during bi-level control.



**One-glance Monitor** Panel





Slide window



A .- 1

and Switches





Drink holder



SAFETY

(CRES) Cab \* The CRES cab meets OPG top guard level I (ISO). This cab structure is formed from strong steel pipes to help it withstand external forces.











Left side rearview mirror

Right side rearview mirror



#### Easy maintenance and high durability

# UTURISTIC FUNCTIONS KEEP COSTS DOWN

Lower running costs



Increased arm plate thickness 6 Increased boom plate thickness 2 Bucket joint pins lubricated through Reinforced upperstructure main bosses frame 3 WC thermal spraying for arm and bucket 8 Improved idler bracket shape joint sections 9 Reinforced resin thrust plates 4 New HN bushing used for front sections used for front sections 5 Flanged pin is used for the boom/arm



## joint sections and the boom foot section WC (Tungsten Carbide)

Thermal Spraying Used at arm end and bucket connection to increase wear resistance and reduce jerking.

## New HN Bushing Used

A special grease groove is used to enhance grease retention inside the HN bushing.



**Reinforced Resin Thrust Plates** Designed to reduce noise and resist wear.



shown in red) **Rigid Undercarriage** 

Strong undercarriage section for increased durability.



Longer Track Link Service Life The M-shaped track link seal is used to enhance grease retention.

#### Equipment Operation Status Report

**Onboard ICX** Information Controller

#### Information Services for Equipment

- Operation record
- Error record

and others.

- Alarm record
- Frequency distribution Radiator coolant / hydraulic temperature etc.



PC.

NFORMATION **ECHNOLOGY SUPPORT** 

ZAXIS

Providing the data for making the right decisions



Smart Advanced technology helps reduce Saving maintenance costs

4 12 14 20 20 20 20

#### 500 Hours Between Lubrication for Bucket System and Front Sections (Compared to EX135USR)

The use of the new HN bushing and WC thermal spraying process have helped dramatically increase the time between lubrication. (See the Operator's Manual)



\* Estimated values. The actual time between lubrication will vary according to actual work conditions.

#### Hydraulic Oil Filter Only Needs Replacement Every 1000 Hours

The hydraulic oil filter can be used nearly 10 twice as long as the previous model, dramatthe set ically reducing maintenance time and See expense.





**Engine Oil filter and Water Separator Positioned for Easy Access from Ground** 

Water separator Engine oil filter





**Undercarriage Designed** for Easy Mud Removal

# **Tool Box Space**

#### **Environmentally Friendly**



• Lead-free Wiring

Aluminium Radiator and Oil Cooler

liters US gal

200.0

19.0

15.8

3.2

4.2

120.0

62.0

52.9

5.0

4.2

0.8

1.1

31.7

16.4

Imp gal

44.0

4.2

3.5

0.7

0.9

26.4

13.6

SERVICE REFILL CAPACITIES

BACKHOE ATTACHMENTS

mechanism provided on the bucket joint bracket.

Boom and arms are of welded, box-section design. 4.60 m (15'1")

boom, and 2,10 m (6'11"), 2.52 m (8'3") and 3.01 m (9'11")\* arms are

available. Bucket is of welded steel structure. Side clearance adjust

Euel tank

JUX .

Engine oil ....

Engine coolant ...

Swing device

Hydraulic system

Hydraulic oil tank

Travel final device .....

device(each side)

#### ENGINE

Model	Isuzu CC-4BG1TC
Туре	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	
Rated power	
DIN 6271, net	H/P mode : 66 kW (90 PS) at 2 150 min <sup>-1</sup> (rpm)
	P mode : 63 kW (85 PS) at 1 950 min <sup>-1</sup> (rpm)
SAE J1349, net	H/P mode : 65 kW (88 hp) at 2 150 min <sup>-1</sup> (rpm)
	P mode : 62 kW (84 hp) at 1 950 min <sup>-1</sup> (rpm)
Maximum torque	
	at 1 600 min <sup>-1</sup> (rpm)
Piston Displacement	
Bore and stroke	
Batteries	
Governor	Mechanical speed control with stepping motor

#### HYDRAULIC SYSTEM

Work mode selector

Digging mode / Attachment mode

· Engine speed sensing system

Main pumps
Maximum oil flow 2 x 105 L/min (27.7 US gpm, 23.1 lmp gpm)
Pilot pump1 gear pump
Max. oil flow 33 L/min. (8.7 US gpm, 7.3 lmp gpm)

#### Hydraulic Motors

2 variable displacement axial piston motors Travel Swina ... 1 axial piston motor

#### **Relief Valve Settings**

Implement circuit3	4.3 MPa (350 kgf/cm <sup>2</sup> , 4 980 psi)
Swing circuit	2.3 MPa (330 kgf/cm <sup>2</sup> , 4 690 psi)
Travel circuit	4.3 MPa (350 kgf/cm <sup>2</sup> , 4 980 psi)
Pilot circuit	3.9 MPa (40 kgf/cm <sup>2</sup> , 570 psi)

#### Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

#### Dimensions

	Qty.	Bore	Rod diameter
Boom	2	105 mm (4.13")	70 mm (2.76*)
Arm	1	115 mm (4.53")	80 mm (3.15")
Bucket	1	100 mm (3.94")	70 mm (2.76")

#### Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines. Demolition version ZAXIS130USK uses other type of high-performance full flow filters with clog indicator.

#### CONTROLS

Pilot controls. Hitachi's original shockless valve and quick warm-up system built in the pilot circuit.

Implement levers	2	
Travel levers with pedals	2	
Attachment pedal (Demolition version ZAXIS130USK)	. 1	

#### AL

#### **Revolving Frame**

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

#### Swing Mechanism

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shear-type ball bearing with inductionhardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type. Swing speed . . 13.7 min<sup>-1</sup> (rpm)

#### Operator's Cab

US-exclusive cab, independent and roomy 1 005 mm (40") wide by 1 675 mm (66") high, conforming to ISO\* Standards. Reinforced glass windows on 4 sides for visibility. Openable front windows (upper and lower). Adjustable, reclining seat with armrests; movable with or without control levers.

\* International Standardization Organization

#### 

#### Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. Flat and triangular shoes are also available. 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 rollers	1: ZAXIS135US/135USK
Lower rollers	7: ZAXIS135US/135USK
Track shoes	44: ZAXIS135US/135USK

#### Travel Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel. Automatic transmission system: High-Low.

Travel speed	High : 0 to	5.0 km/h (3.1 mph)
	Low : 0 to	3.0 km/h (1.9 mph)
Maximum traction force	117 kN (11	900 kgf, 26 300 lbf)
Gradeability		5° (70%) continuous



Equipped with 4.60 m (15'1") boom, 2.52 m (8'3") arm and 0.50 m3 (0.65 yd3: SAE, PCSA heaped) bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
	500 mm	13 200 kg	41 kPa
	(20")	(29 100 lb)	(0.42 kgf/cm², 5.97 psi)
Triple	600 mm	13 500 kg	35 kPa
grouser	(24")	(29 800 lb)	(0.36 kgf/cm², 5.12 psi)
	700 mm	13 700 kg	30 kPa
	(28")	(30 200 lb)	(0.31 kgf/cm², 4.41 psi)
Flat	Flat 510 mm 13 700 kg (20") (30 200 lb)		42 kPa (0.43 kgf/cm², 6.11 psi)
		13 500 kg (29 800 lb)	30 kPa (0.31 kgf/cm <sup>2</sup> , 4.41 psi)

Weights of the basic machines [including 3 650 kg (8 050 lb), 4 450kg (9 810lb) K-type counterweight and triple grouser shoes, excluding front-end attachment, fuel, hydraulic oil, engine oil and coolant etc.lare:

.. 10 600 kg (23 400 lb) with 500 mm (20") shoes 7AXIS135US ZAXIS135USK......11 600 kg (25 600 lb) with 500 mm (20") shoes

#### ZAXIS135USK (Demolition version):

Equipped with 4.60 m (15'1") K-boom, 2.52 m (8'3") K-arm, and 0.50 m<sup>3</sup> (0.65 yd3:SAE, PCSA heaped) K-bucket.

	Shoe width	Arm	Operating weight	Ground pressure
ZAXIS135USK	500 mm (20°)	2.52 m (8'3") K-arm		45 kPa (0.46 kgf/cm <sup>2</sup> , 6.50 psi)

#### Buck

						Recommendation					
Capacity		Width		No. of	Weight	ZAXIS135US				ZAXIS135USK	
SAE, PCSA heaped	CECE heaped	Without side cutters	With side cutters	teeth	Weight	2.10 m (6'11") arm	2.52 m (8'3") arm	3.01 m (9'11") arm	3.52 m*4 (8'3") EX-arm	2.52 m (8'3") K-arm	
0.19 m <sup>3</sup> (0.25 yd <sup>3</sup> )	0.17 m <sup>3</sup>	450 mm (18")	550 mm (22*)	3	260 kg ( 570 lb)	0	0	0	0	0	
0.30 m <sup>3</sup> (0.39 yd <sup>3</sup> )	0.25 m <sup>3</sup>	580 mm (23*)	700 mm (28*)	3	290 kg ( 640 lb)	0	0	0	0	0	
0.40 m <sup>3</sup> (0.52 yd <sup>3</sup> )	0.33 m <sup>3</sup>	680 mm (27*)	800 mm (31")	4	340 kg ( 750 lb)	0	0	0	0	0	
0.45 m <sup>3</sup> (0.59 yd <sup>3</sup> )	0.40 m <sup>3</sup>	850 mm (33")	970 mm (38")	5	400 kg ( 880 lb)	0	0	0	0	0	
0.50 m <sup>3</sup> (0.65 yd <sup>3</sup> )	0.45 m <sup>3</sup>	890 mm (35")	1 010 mm (40")	5	410 kg ( 900 lb)	0	0	0*	-	0	
0.59 m <sup>3</sup> (0.77 yd <sup>3</sup> )	0.50 m <sup>3</sup>	950 mm (37*)	1 070 mm (42")	5	430 kg ( 950 lb)	0	0	-	-	0	
0.66 m <sup>3</sup> (0.86 yd <sup>3</sup> )	0.55 m <sup>3</sup>	1 030 mm (45")	—	5	430 kg ( 950 lb)		-	-	-	-	
*1 0.50 m <sup>3</sup> (0.65 yd <sup>3</sup> )	0.45 m <sup>3</sup>	890 mm (35")	1 010 mm (40")	5	470 kg (1 040 lb)	0	0	0*	-	0	
*3 0.50 m3 (0.65 yd3)	0.45 m <sup>3</sup>	890 mm (35")	1 010 mm (40")	5	500 kg (1 100 lb)	0	0	0*	-	0	
*2 0.59 m <sup>3</sup> (0.77 yd <sup>3</sup> )	0.50 m <sup>3</sup>	950 mm (37*)	1 070 mm (42")	5	490 kg (1 080 lb)	0	0	-	-	0	
V-type bucket: 0.35 m <sup>3</sup> (0.46 yd <sup>3</sup> : CECE heaped)			3	370 kg ( 820 lb)	0	0	0	-	-		
One-point ripper				1	320 kg ( 710 lb)	•	•	-	-	-	
Slope-finishing blade: \	Width 1 000 mm	(39"), length 1 600 i	mm (63")		430 kg ( 950 lb)	$\diamond$	$\diamond$	$\diamond$	-	-	

\* With 700 mm (28\*) shoes only \*1 K-reinforced bucket

Suitable for materials with density of 1 800 kg/m<sup>3</sup> (3 030 lb/yd<sup>3</sup>) or less Suitable for materials with density of 1 600 kg/m<sup>3</sup> (2 700 lb/yd<sup>3</sup>) or less □ Suitable for materials with density of 1 100 kg/m<sup>3</sup> (1 850 lb/yd<sup>3</sup>) or less

\*2 Reinforced bucket \*3 Level-pin-type reinforced bucket \*4 2.52 m (8'3") arm +1.0 m (3'3") extension arm

 Heavy-duty service Slope-finishing service

Not applicable

10 - 11

IS135USK	500 mm (20*)	1 2.52 m (8'3") K-arm	14 400 kg (31 700 lb) (	45 kPa 0.46 kgf/cm², 6.50 ps	i)							
ckets												
								ł	Recommend	ation		
	Capacity		V	/idth	No. of	Weight	ZAXIS135US		ZAXIS135US			ZAX
AE, PCSA I	heaped	CECE heaped	Without side cutters	With side cutters	teeth	weight	2.10 m (6'11") arm	2.52 m (8'3") arm	3.01 m (9'11") arm	3.52 m*4 (8'3") EX-arm	2	
).19 m <sup>3</sup> (0	.25 yd³)	0.17 m <sup>3</sup>	450 mm (18*)	550 mm (22*)	3	260 kg ( 570 lb)	0	0	0	0		
0.30 m <sup>3</sup> (0	.39 yd3)	0.25 m <sup>3</sup>	580 mm (23*)	700 mm (28*)	3	290 kg ( 640 lb)	0	0	0	0		
0.40 m <sup>3</sup> (0	.52 yd3)	0.33 m <sup>3</sup>	680 mm (27*)	800 mm (31")	4	340 kg ( 750 lb)	0	Ô	0	0		
).45 m <sup>3</sup> (0	.59 yd³)	0.40 m <sup>3</sup>	850 mm (33")	970 mm (38")	5	400 kg ( 880 lb)	0	0	0	0		
0.50 m <sup>3</sup> (0	.65 yd³)	0.45 m <sup>3</sup>	890 mm (35*)	1 010 mm (40")	5	410 kg ( 900 lb)	0	0	O*	-		
).59 m <sup>3</sup> (0	.77 yd <sup>3</sup> )	0.50 m <sup>3</sup>	950 mm (37*)	1 070 mm (42*)	5	430 kg ( 950 lb)	0	0	-	-		
0.66 m <sup>3</sup> (0	.86 yd³)	0.55 m <sup>3</sup>	1 030 mm (45*)	-	5	430 kg ( 950 lb)		-	-	-		
0.50 m <sup>3</sup> (0	.65 yd³)	0.45 m <sup>3</sup>	890 mm (35")	1 010 mm (40")	5	470 kg (1 040 lb)	0	0	0*	-		
0.50 m <sup>3</sup> (0	.65 yd³)	0.45 m <sup>3</sup>	890 mm (35*)	1 010 mm (40")	5	500 kg (1 100 lb)	0	0	0*	-		
).59 m <sup>3</sup> (0.	.77 vd3)	0.50 m <sup>3</sup>	950 mm (37*)	1 070 mm (42")	5	490 kg (1 080 lb)	0	0	_	-		

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

METRIC MEASURE

ZX135US

Rating over-side or 360 degrees	Rating over-front	Unit: 1 000 kg
Rating over-side or 360 degrees	Rating over-front	Unit: T UUU kg

2.51

1.37 2.21 6.61

Unit: mm (ft in

			74 10425110 /	74 81042011016	Unit: min (it i						
				ZAXIS130USK							
А	Distance between tumblers		2 880 (9'5")								
В	Undercarriage length		3 580	(11'9")							
*C	Counterweight clearance		890 (	(2'11")							
D	Rear-end swing radius		1 465 (4'10")	/ 1 510 (4'11")							
D'	Rear-end length		1 465 (4'10")	/ 1 510 (4'11")							
Е	Overall width of upperstructure		2 470 (8	3'1")							
F	Overall height of cab		2 740 (9'0") / 2	870 (9'5")							
*G	Min. ground clearance		440	) (1'5")							
Н	Track gauge		1 990 (6'6")								
1	Track shoe width	G 500 (20")	G 600 (24")	G 700 (28°)	F 510 (20°)						
J	Undercarriage width	2 490 (8'2")	2 590 (8'6")	2 690 (8'10")	2 500 (8'2")						
Κ	Overall width	2 500 (8'2")	2 590 (8'6")	2 690 (8'10")	2 500 (8'2")						
L	Overall length With 2.10 m (6'11") arm With 2.52 m (8'3") arm With 3.01 m (9'11") arm		7 290 (23'11') / 7 290 (23'11') / **7 290 (23'11') 7 310 (24'0') /								
Μ	Overall height of boom With 2.10 m (6'11") arm With 2.52 m (8'3") arm With 3.01 m (9'11") arm		2 840 (9'4') / – 2 840 (9'4') / **2 840 (9'4') 2 840 (9'4') / –								
Ν	Track height With triple grouser shoes		790	) (2'7")							

## WORKING RANGES



				135US		Unit: mm (ft in)		
Arm	length	2.10 m	ZAXIS135USK* 2.52 m					
Ann	riengti	(6'11")	(8'3")	(9'11")	(11'7") EX-arm	(8'3")		
A Max. d	igging reach	7 930 (26'0")	8 300 (27'3")	8 760 (28'9")	9 220 (30'3")	8 300 (27'3")		
A' Max. d (on gro	igging reach ound)	7 790 (25'7")	8 160 (26'9")	8 640 (28'4")	9 110 (29'11")	8 160 (26'9")		
B Max. d	igging depth	5 120 (16'10")	5 530 (18'2")	6 020 (19'9")	6 530 (21'5")	5 530 (18'2")		
B' Max. d (8' leve	igging depth el)	4 880 (16'0")	5 320 (17'5")	5 840 (19'2")	6 370 (20'11")	5 320 (17'5")		
C Max. c	utting height	8 950 (29'4")	9 220 (30'3")	9 610 (31'6")	9 940 (32'7")	9 220 (30'3")		
D Max. d	umping height	6 490 (21'4")	6 760 (22'2")	7 150 (23'5")	7 490 (24'7")	6 760 (22'2")		
E Min. sv	ving radius	1 940 (6'4")	2 060 (6'9") 2 400 (7'10")		2 350 (7'9")	2 060 (6'9*)		
F Max. v	ertical wall	4 620 (15'2") 4 970 (16'4") 5 460 (17'11") 6 060 (19'11")				4 970 (16'4")		
Bucket	ISO							
digging force	SAE : PCSA							
Arm crowd force	ISO	73 kN (7 500 kgf, 16 500 lbf)	65 kN (6 600 kgf, 14 600 lbf)	58 kN (5 900 kgf, 13 000 lbf)	49 kN (4 990 kgf, 11 000 lbf)	65 kN (6 600 kgf, 14 600 lbf)		
	SAE : PCSA	71 kN (7 200 kgf,	63 kN (6 400 kgf,	57 kN (5 800 kgf,	47 kN 4 820 kgf,	63 kN (6 400 kgf,		

14 100 lbf)

Excluding track shoe lug \*12.52 m (8'3") arm+1.0 m (3'3") extension arm \*2 Equipped with K-front

12 800 lbf)

10 600 lbf)

14 100 lbf)

15 900 lbf)

								radius						٨٠	At max, reach		
Conditions	Load point					4 m 5 m				6m 7m							
Conditions	height	Ð	Ů	Ð	Ů	Ð	Ů	Ð	Ů	Ð	Ů	Ð	Ů	Ð	Ů	mete	
	4 m			*3.58	*3.58	3.84	*3.61	2.61	*3.35	1.87	2.86			1.30	*1.60	7.27	
Boom 4.60 m	3 m			*5.71	*5.71	3.64	*4.37	2.51	*3.73	1.83	2.81			1.19	*1.62	7.53	
Arm 2.10 m	2 m					3.40	*5.30	2.39	3.72	1.76	2.75	1.33	2.10	1.14	*1.67	7.62	
Bucket SAE.PCSA:0.59 m <sup>3</sup>	1 m					3.19	5.15	2.28	3.59	1.70	2.68	1.30	2.07	1.13	*1.77	7.56	
CECE:0.50 m <sup>3</sup>	0 (Ground)					3.08	5.02	2.19	3.50	1.65	2.62	1.27	2.05	1.18	1.90	7.35	
Shoe 500 mm	— 1 m			4.88	*5.91	3.04	4.97	2.15	3.45	1.62	2.59			1.29	2.08	6.96	
	— 2 m	*5.75	*5.75	4.92	*7.19	3.04	4.98	2.14	3.44	1.62	2.59			1.52	2.42	6.35	
	— 3 m	*7.12	*7.12	5.00	*6.11	3.09	*4.98	2.18	3.48					2.00	*2.53	5.44	
							Load	radius								1	
Conditions	Load point	2	m	3	m	4	m	5	m	6	m	7		At max. read		acn	
Conditions	height	<b>O</b>	Ů	<b>O</b>	Ů	Ð	Ů	Ð	Ů	<b>O</b>	Ů	œ	Ů	0	Ů	mete	
	4 m					*3.16	*3.16	2.64	*3.02	1.89	2.89			1.17	*1.37	7.65	
Boom 4.60 m	3 m			*4.32	*4.32	3.71	*3.91	2.54	*3.42	1.84	2.83	1.36	2.14	1.07	*1.38	7.89	
Arm 2.52m	2 m					3.46	*4.86	2.41	3.74	1.77	2.75	1.32	2.10	1.02	*1.43	7.98	
Bucket SAE.PCSA:0.50 m <sup>3</sup>	1 m					3.23	5.20	2.28	3.60	1.69	2.67	1.28	2.06	1.02	*1.52	7.93	
	0 (Ground)					3.08	5.02	2.18	3.49	1.63	2.61	1.25	2.03	1.05	*1.65	7.72	
Shoe 500 mm	— 1 m			4.80	*6.23	3.00	4.94	2.12	3.42	1.59	2.56	1.23	2.00	1.14	*1.86	7.36	
	— 2 m	*5.55	*5.55	4.83	*7.71	2.99	4.92	2.10	3.40	1.57	2.55			1.32	2.13	6.79	
	— 3 m	*7.82	*7.82	4.89	*6.75	3.02	4.96	2.12	3.42					1.67	*2.61	5.97	
							Load	radius							max. re	h	
Conditions	Load point		m	-	m		m		m		m	7					
	height	Ð	Ů	Ð	Ů	Ð	Ů	Ð	Ů	œ	Ů	Ð	Ů	Ð	Ů	mete	
	4 m					*2.47	*2.47	*2.64	*2.64	1.92	*2.62	1.40	*2.15	1.03	*1.20	8.14	
Boom 4.60 m	3 m			*2.57	*2.57	*2.98	*2.98	2.59	*3.05	1.86	*2.85	1.37	2.16	0.94	*1.21	8.37	
Arm 3.01 m	2 m					3.56	*4.32	2.45	*3.58	1.78	2.78	1.33	2.11	0.90	*1.26	8.45	
Bucket SAE.PCSA:0.40 m <sup>3</sup>	1 m					3.29	5.28	2.31	3.63	1.70	2.68	1.28	2.06	0.89	*1.33	8.40	
CECE:0.33 m <sup>3</sup>	0 (Ground)			4.86	*5.10	3.10	5.05	2.19	3.50	1.62	2.60	1.24	2.01	0.92	*1.44	8.21	
Shoe 500 mm	— 1 m			4.75	*6.14	2.98	4.92	2.10	3.41	1.57	2.54	1.20	1.98	0.99	*1.60	7.87	
	— 2 m	*4.84	*4.84	4.74	*8.14	2.94	4.87	2.06	3.36	1.54	2.51	1.19	1.97	1.12	1.84	7.35	

Notes: 1. Ratings are based on SAE J1097.

\*7.34 \*7.34 4.78 \*7.37 2.95 4.88 2.06 3.36 1.54 Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with hte machine on firm, level ground or 87% full hydraulic capacity.
The load point is a hook (not standard equipment) located on the back of the bucket.

Indicates load limited by hydraulic capacity.

— 3 m

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# LIFTING CAPACITIES

FRONT ATTACHMENTS

· Reinforced resin thrust plate

 Bucket clearance adjust mechanism Monolithically cast bucket link A

0.50 m<sup>3</sup> (0.65 yd<sup>3</sup> : SAE, PCSA heaped) bucket

Skid-resistant tapes, plates and handrails

· K-cab (CRES cab with overhead window and

• K-boom 4.60 m (15'1") and K-arm 2.52 m (8'3")

• 0.50 m3 (0.65 vd3 ; SAE, PCSA heaped) K-

Travel direction mark on track frame

· Centralized lubrication system

· Dirt seal on all bucket pins

• 2.52 m (8'3") arm

MISCELLANEOUS

Lockable fuel filling cap

(Demolition version)

reinforced bucket

Track undercover

indicator)

· Front glass lower guard

Attachment basic piping

Damage prevention plate

· Air cleaner double filters

Reinforced link B for demolition

6.0 mm (0.24") thickness undercover

Reinforced side step (bolt mounted)

4 450 kg (9 810 lb) heavier counterweight

<800 kg (1 760 lb) added counterweight>

· High-performance full-flow filter (with restriction

 Standard tool kit Lockable machine covers

Onboard ICX

ZAXIS130USK

auard)

• WC thermal spraving

HN bushing

Flanged pin

#### METRIC MEASURE

ZX135USK								1 000 kg								
	Load point	2	m	3	m	4		radius 5	m	6	m	7	m	At max. reach		
Conditions	height	O•	Ů	0.	Ů	0	Ů	0°	Ů	0°	Ů	O.	Ů	O•	Ů	meter
	4 m					*3.07	*3.07	*2.92	*2.92	2.10	*2.83			*1.28	*1.28	7.65
K-boom 4.60 m	3 m			*4.25	*4.25	*3.81	*3.81	2.83	*3.32	2.05	*3.02	1.52	*2.29	1.20	*1.30	7.89
K-arm 2.52 m	2 m					3.88	*4.75	2.70	*3.81	1.97	3.05	1.48	2.33	1.15	*1.35	7.98
K-bucket	1 m					3.64	*5.59	2.57	4.00	1.90	2.96	1.44	2.28	1.14	*1.44	7.93
SAE,PCSA:0.50 m <sup>3</sup>	0 (Ground)					3.48	5.60	2.46	3.88	1.83	2.89	1.40	2.24	1.18	*1.57	7.72
CECE:0.45 m <sup>3</sup>	-1 m			5.45	*6.10	3.40	5.52	2.40	3.81	1.80	2.85	1.38	2.22	1.29	*1.77	7.36
Shoe 500 mm	-2 m	*5.45	*5.45	5.48	*7.57	3.39	5.50	2.37	3.79	1.78	2.83			1.48	*2.09	6.79
	— 3 m	*7.93	*7.93	5.55	*6.62	3.42	*5.21	2.39	3.81	1.80	2.86			1.88	*2.49	5.97

Notes: 1 Ratings are based on SAE 11097

2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with hte machine on firm, level ground or 87% full hydraulic capacity.

3. The load point is a hook (not standard equipment) located on the back of the bucket.

4. \*Indicates load limited by hydraulic capacity



#### Demolition Version K-Series (ZAXIS135USK)



Notes: Photo shown model equipped with optional breaker and crusher pipings. Total weight of attachments to be mounted is from a standpoint of machine stability. For more details, contact your distributor.

	STANDARD EQUIPMENT	Standard equipment may vary by country, so please consult your Hitachi dealer for details.
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Warning lamps:

fuel level

Pilot lamps:

Alarm buzzers:

2 working lights

Undercover

Tool box

Fuel level float

UPPERSTRUCTURE

Hvdraulic oil level gauge

Swing parking brake

UNDERCARRIAGE

Travel parking brake

Travel motor covers

Bolt-on sprocket

• 3 650 kg (8 050 lb) counterweight

· Rearview mirror (right & left side)

Upper rollers and lower rollers

· Reinforced track links with pin seals

• 500 mm (20") triple grouser shoes

Track guards and hydraulic track adjuster

mode

LIGHTS

Hourmeter and trip-meter, engine coolant

Alternator charge, engine oil pressure, engine

overheat, air filter restriction and minimum

Engine preheat, work light, auto-idle, auto-

acceleration, digging mode and attachment

Engine oil pressure and engine overheat

temperature gauge and fuel gauge

#### MONITOR SYSTEM

Meters

- H/P mode control
- E mode control

ENGINE

A · I oad radius B: Load point height C: Lifting capacity

- 50 A alternator • Dry-type air filter with evacuator valve (with
- safety element)
- · Cartridge-type engine oil filter
- Cartridge-type fuel filter
- · Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- · Auto acceleration system

#### HYDRAULIC SYSTEM

- · Work mode selector
- · Engine speed sensing system E-P control system
- Quick warm-up system for pilot circuit
- · Shockless valve in pilot circuit
- Boom-arm anti-drift valve
- · Control valve with main relief valve
- · Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

#### CAB

- **CRES (Corner Reinforced Structure) cab** OPG top guard fitted Level I (ISO) compliant cab.
- All-weather sound-suppressed steel cab
- Tinted (bronze color) glass windows
- · 4 fluid-filled elastic mounts
- · Openable front windows-upper, and lower
- and left side windows
- · Intermittent windshield wipers
- Front window washer
- · Adjustable reclining seat with adjustable armrests
- Footrest
- Electric double horn
- · AM FM radio with digital clock Auto-idle acceleration selector
- Seat belt
- Drink holder
- Cigar lighter
- Ashtray
- Glove compartment
- Eloor mat
- Heater
- · Pilot control shut-off lever
- Engine stop knob

#### CE OPTIONAL EQUIPMENT

- Auto control air conditioner
- · Suspension seat
- Hose rupture valves
- · Swing motion alarm device with lamps Travel motion alarm device
- Additional pump
- Fuel double filters Air cleaner double filters Attachment basic piping
- Accessories for breaker
- Accessories for breaker & crusher
- Accessories for 2 speed selector
- · K-cab (CRES cab with overhead window and

- Optional equipment may vary by country, so please consult your Hitachi dealer for details.
  - 750 kg (1 650 lb) added heavier counterweight
  - Front glass lower guard
  - · Front glass upper guard

- guard)
- Track guard

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- Storage box

Comparative information based on current Japan domestic model. These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, go through Operator's Manual for proper operation.

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KS-E350P

04.03 (HP/HP,GT3)