

KTEG

ZE85

THE GREEN MACHINE

ZECOM (**Z**ero-**E**mission **C**onstruction **M**achinery) excavators are Hitachi crawler models fitted with battery-driven electric drive-trains. They are emission-free and extremely quiet, making them ideal for indoor operation, residential environments or areas where the usage of combustion engines is legally restricted. ZECOM excavators are equipped with high-quality battery systems that allow for rapid charging, and ensure longevity, thermal conditioning and machine reliability.



Specifications*

Engine power | 40 kW
Onboard charging power | 44 kW
CCS2 rapid charging
Charging duration CEE63 | 105 min
Charging duration CCS2 | 45 min
Runtime | 4 h
Weight | approx. 8,700 kg

*with maximum configuration

CUSTOMER BENEFITS

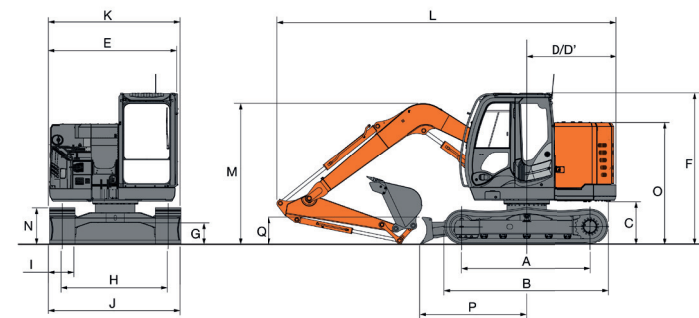
- Emission-free & efficient
- Ready for rapid charging: enables high productivity
- Thermally conditioned: the reliable and durable battery system is continually operational due to the conditioning system.
- Powerful: the electrical drive is more than a match for diesel engines.
- Reduced maintenance: the electric motors are maintenance-free.
- High availability: by using redundant components downtimes are minimal - even if e.g. a single charging device should fail.
- Intuitive and user-friendly: the controls provide a comprehensive overview of the machine's status.

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FOR A CLEAN JOB-SITE

Based on the Hitachi ZX85US, the ZE85 offers a run time of four hours in its maximum configuration by which the capacity requirements can be customised with several built-in battery modules. The charging time can be reduced to 35 - 45 minutes when using a CCS2 interface of up to 150 kW to charge the battery system. This means it can be charged during break times on the job site.

In addition, to ensure continuous operation, it is also possible to charge the machine with 400 V CEE grid during break times as well as during operation. The ZE85 offers the same high levels of performance and operator comfort as the ZX85US. The cab is air-conditioned and the intuitive controls provide a complete overview of the machine's status. Just like the ZX85US base machine the ZE85 is suitable to use a 0.28 m³ bucket (ISO heaped) as well as tools for the 8-9 to class.

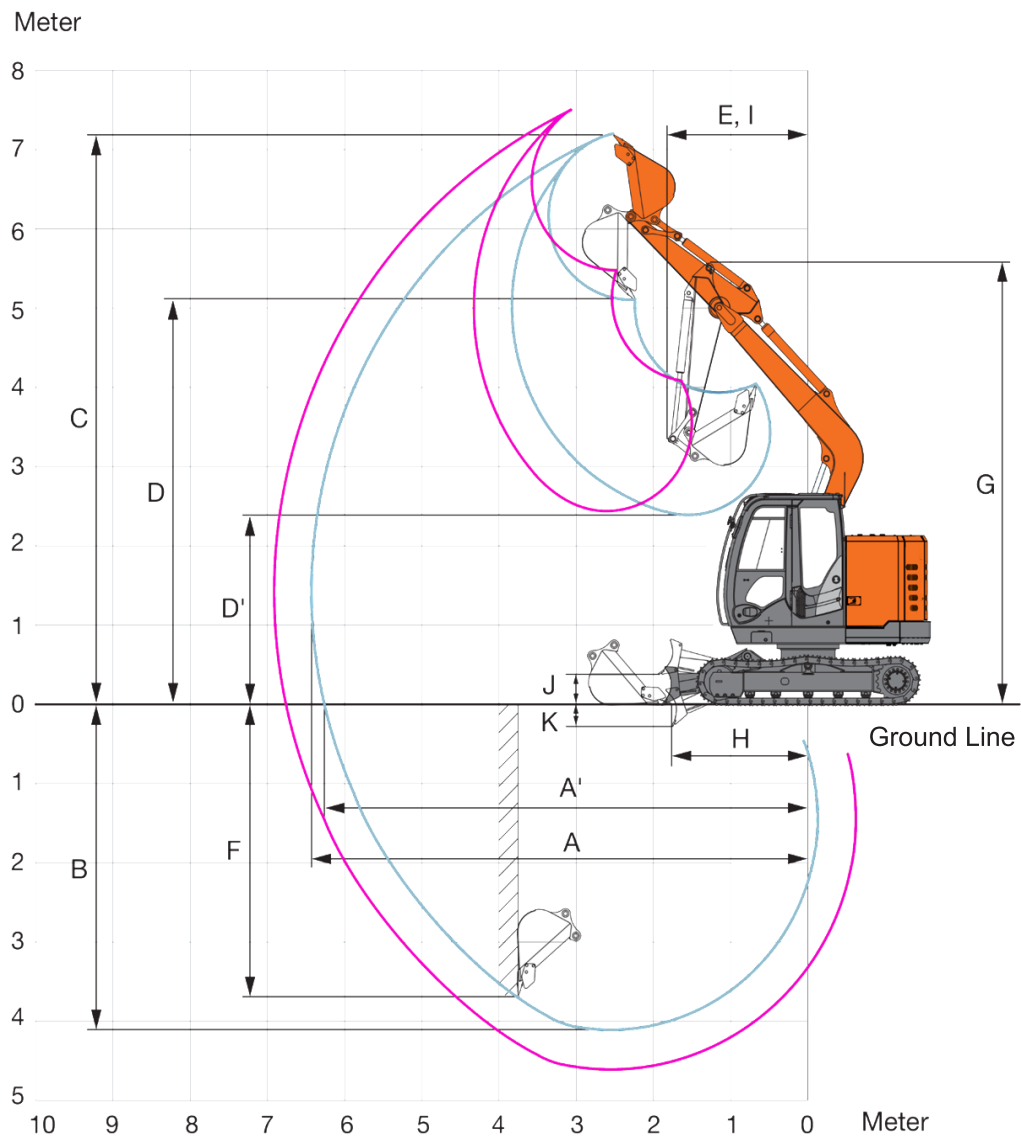


Dimension	Title	ZX85US-6	ZE85
A	Distance between tumblers	2,290 mm	→
B	Undercarriage length	2,920 mm	→
C	Counterweight clearance	730 mm	→
D / D'	Rear-end swing radius / Rear-end length	1,290 mm	1,600 mm
E	Overall width of upperstructure	2,260 mm	→
F	Overall height of cab	2,690 mm	→
G	Min. ground clearance	360 mm	→
H	Track gauge	1,870 mm	→
I	Track shoe width	450 mm	→
J	Undercarriage width	2,320 mm	→
K	Overall width	2,320 mm	→
L	Overall length with 2.12 m arm	6,370 mm	6,680 mm
M	Overall height of boom with 2.12 m arm	2,830 mm	→
N	Track height	650 mm	→
O	(Engine) cover-height	1,850 mm	2,100 mm
P	Horizontal distance to blade	1,890 mm	→
Q	Blade height	480 mm	→

	Engine Power	Battery Capacity	On-Board Charging Power	On-Board Charging Duration	CCS2 Rapid Charging	CCS2 Charging Duration	Runtime	Weight
Maximum configuration	40 kW	100 kW	44 kW	1.7 h	available	45 min	4 h	ca. 8,700 kg
Half charging capacity	↓	↓	22 kW	3.5 h	↓	↓	↓	↓
Half battery capacity	↓	50 kW	↓	1.7 h	↓	↓	2 h	↓

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WORKING RANGE



2.12 m arm length (relating to the purple curve)		Dimensions
A	Max. digging reach	6,920 mm
A'	Max. digging reach (on ground)	6,760 mm
B	Max. digging depth	4,610 mm
C	Max. cutting height	7,610 mm
D	Max. dumping height	5,510 mm
D'	Min. dumping height	2,410 mm
E	Min. swing radius	2,170 mm
F	Max. vertical wall	4,220 mm
G	Front height at min. swing radius	5,610 mm
H	Min. level crowding distance	1,670 mm
I	Working radius at min. swing radius (max. boom-swing angle)	-
J	Blade bottom highest position above ground	360 mm
K	Blade bottom lowest position above ground	300 mm
excluding track shoe lug		

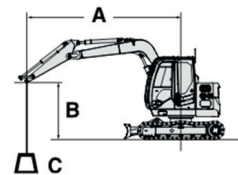
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MACHINE CAPACITIES

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

To determine the lifting capacities, apply “Rating over side or 360 degrees” machine capacities from the table with “blade above ground” and deduct the weight of the installed attachment and the quick coupler.



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

ZE85, Monoblock boom, blade above ground								 Rating over-front		 Rating over-side or 360 degrees				
Conditions	Load point height m	Load radius										at max. reach		
		1.0 m		2.0 m		3.0 m		4.0 m		5.0 m				
														Meter
Boom 3.72 m	5							*1,400	*1,400			*1,360	*1,360	4.6
Arm 2.12 m	4							*1,450	*1,450	*1,520	1,290	*1,270	1,190	5.25
Grouser shoe	3			*2,320	*2,320	*1,880	*1,880	*1,680	*1,680	1,570	1,270	*1,260	1,040	5.64
450 mm	2					*2,580	*2,580	*2,010	1,730	1,530	1,230	1,210	970	5.83
	1					*3,220	2,510	2,080	1,650	1,490	1,190	1,190	950	5.84
	0 (Ground)					3,150	2,420	2,020	1,590	1,460	1,160	1,220	980	5.67
Lifting capacity in kg	-1.0	*2,290	*2,290	*3,560	*3,560	3,110	2,380	1,990	1,560	1,450	1,150	1,340	1,060	5.31
	-2.0	*3,710	*3,710	*5,040	4,890	3,120	2,390	1,990	1,570			1,590	1,260	4.7
	-3.0			*4,100	*4,100	*2,840	2,450					*2,120	1,790	3.73

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														Meter
Boom 3.72 m	5							*1,400	*1,400			*1,360	*1,360	4.6
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Grouser shoe	3			*2,320	*2,320	*1,880	*1,880	*1,680	*1,680	*1,600	1,270	*1,260	1,040	5.64
450 mm	2					*2,580	*2,580	*2,010	1,730	*1,760	1,230	*1,290	970	5.83
	1					*3,220	2,510	*2,350	1,650	*1,930	1,190	*1,370	950	5.84
Lifting capacity in kg	0 (Ground)					*3,570	2,420	*2,580	1,590	*2,060	1,160	*1,510	980	5.67
	-1.0	*2,290	*2,290	*3,560	*3,560	*3,640	2,380	*2,660	1,560	*2,080	1,150	*1,770	1,060	5.31
	-2.0	*3,710	*3,710	*5,040	4,890	*3,440	2,390	*2,530	1,570			*2,020	1,260	4.7
	-3.0			*4,100	*4,100	*2,840	2,450					*2,120	1,790	3.73