

Echo Tech distributor location



EchoTech™



● is a country where Echo Tech have a distributor.
 ▲ is a country where Echo Tech is looking for a prospective distributor.

ULTRASONIC CUTTER Z0 series

Cut plastic
like butter



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Registered company for ISO9001 and ISO14001

< Contact >

23-120

Japanese
Product

Ultrasonic Cutter Z0 series

ULTRASONIC CUTTER BLADE'S HIGH SPEED AND FINE VIBRATION (40 KHZ/40,000 TIMES PER SECOND) IMPROVES CUTTING PERFORMANCE DRASTICALLY. IT FULLY SUPPORTS USER'S WORKS OF "CUT" × "WELD" × "POLISH". SINCE 2016, WHICH IS A YEAR THAT WE RELEASED OVERSEA MODEL, THE MARKET HAS DEVELOPED WIDELY AND IT STILL EXPANDING.

Ultrasonic Cutter Z0-95



PROFESSIONAL MODEL OF ULTRASONIC CUTTER. S-HIGH MODE WORKS VERY POWERFULLY. TORQUE SCREWDRIVER ZH25T & FOOT SWITCH ZH801 ARE SET.



Ultrasonic Cutter Z0-91

- PUSH HAND PIECE SWITCH JUST ONCE AND BLADE WILL START VIBRATION. (NO NEED TO HOLD SWITCH. LED LIGHT ON HAND PIECE WILL LIGHT UP WHEN THE UNIT IS UNDER OPERATION)
 - POWER MODE COULD CONTROL WITH OUTPUT CONVERSION SWITCH. (PROTECTION CIRCUIT WILL ACTIVATE AND TURNS OFF UNIT AUTOMATICALLY WHEN IT DETECTS HEAT ON A UNIT)



Example of applicable materials

- Plastic
- 3D printing
- Resin
- Leather
- Carbon
- Cardboard
- Cloth
- Plaster
- etc.

Specifications

Oscillation frequency	40 kHz
Max. power consumption	MAX. 110 VA
AC adapter	INPUT: 100-240 VAC 50/60 Hz OUTPUT: 12 VDC *1
External dimensions (Unit: mm)	Main unit: 185×169×55 Handpiece: φ28×150 (include blade)
Power mode	S-High/High/Normal *2
Operating condition	Temperature: 10 to 35°C (without condensation)
Weight	Main unit: Approx. 1.2 kg Handpiece: Approx. 350 g (include hand piece cable)
Hand piece cable	1.6 m (straight cable)

Protection circuit	Temperature sensor has installed inside the hand-piece. Detection circuit detects when the blade anchor screw has loosened or when the unit has overloaded. ZO-95 will be automatically turn OFF when it has used without attaching foot switch (ZH801).
Accessories	<ul style="list-style-type: none"> •BDC-200P: 40 pcs./case (include unusable blades with hole) •Blade anchor ZH04: 1 pc. •Blade anchor screw HB03: 3 pcs. •Hexagon wrench RR02: 1 pc. •Torque screwdriver 60 cN•m ZH25T: 1 pc. •Foot switch for ultrasonic cutter ZO-95 ZH801: 1 pc. •Edge protector ZH805: 1 pc.

Specifications

Oscillation frequency	40 kHz
Max. power consumption	MAX. 85 VA
AC adapter	INPUT: 100-240 VAC 50/60 Hz OUTPUT: 12 VDC *1
External dimensions (Unit: mm)	Main unit: 173×89×76 Hand piece: φ32×144 (include blade)
Power mode	High/Normal
Operating condition	Temperature: 5 to 35°C (without condensation) Main unit: Approx. 300 g Hand piece: Approx. 70 g (include hand piece cable)
Weight	

Hand piece cable	1.6 m (straight cable)
Accessories	BDC-200P: 40 pcs./case (include unusable blades with hole) <ul style="list-style-type: none"> • Blade anchor ZH04: 1 pc. • Blade anchor screw HB03: 3 pcs. • Hexagon wrench RR02: 1 pc. • Edge protector ZH805: 1 pc.



This product has CE certificate declared by our manufacturer, HONDA Electronics Co., Ltd.

*1 Since this product has intended selling to CE standard region, the power supply cord has complied to CE standard. In case of using product at any foreign country or region, please prepare and use the power cord which complies to your country or your region's law and safety standard.

*2 Do not use S-High mode for long or regularly. It might shorten a life of unit.
 ※ Specifications and appearance are subject to change without notice.

Replacement blades

Scan this QR code to get more product information.

<https://echotech.co.jp/en/products/2562/>



Please make us contact from contact form on our homepage.

Standard blade
40 pcs. set.
HA04

Zirconia ceramic blade
Zirconia ceramic blade is an insulator, useful for disassembling electronic components.
ZH48

Cemented carbide blade
Carbide blade is excellent in wear resistance. Specialized for cutting resin.
HA07

The curved edge blade. There are 4 types of different width blade.

ZH03 4mm
Curving blade (4 mm)

ZH18 1mm
Curving blade (1 mm)

ZH19 2mm
Curving blade (2 mm)

ZH20 3mm
Curving blade (3 mm)

Flat blade alike to graver. There are 2 types of different width blade.

ZH05A 1mm
Flat blade (1 mm)

ZH06A 2mm
Flat blade (2 mm)

Non-blade flat plate. Specialized for processing clay and surface of material.

ZH07 1mm
Flat plate (1 mm)

ZH08 2mm
Flat plate (2 mm)

Jagged blade like a saw. Specialized for carbon processing.

ZH11
Saw blade

The blade which has requested to make for welding film sheet. It welds sheets by friction heat of vibration.

Welding blade (2 mm)
ZH38

Round shaped blade alike to knife. Specialized for cardboard and cloth processing.

ZH09
Round tip blade(R 15)

ZH42
Round tip blade

Thin blade could be bend easier, but it minimizes material melting.

ZH14
Thin blade (5 pcs.)

ZH16
Thin long blade (5 pcs.)

Special blade which have requested to make from museum.

ZH45
Circular tip φ0.4 blade

Cone shaped blade. Useful for marking work.

ZH12
Square pyramid blade

Double-edged triangular blade
Useful for making triangular mold by cutting edge of the blade.

ZH44

Useful for grooving work.

ZH41
Square blade

Requested blade to cut gourd. It's also useful for cutting silicone.

ZH01A
Sharp edge blade 16°

Requested blade for cloth processing.

ZH52
Flat round blade

25 mm length blade. Specialized for cork processing.

ZH10
Long blade (25 mm)

Electrodeposited plates could use for filing, not for cutting. ZH34, ZH35, ZH36 are special products that take 2 months for producing.

Filing plate #325
ZH39

Electrodeposited square pyramid filing plate
ZH34 1mm

Electrodeposited round tip filing blade
ZH23 4mm

Electrodeposited curving filing blade 1 mm
ZH35 2mm

Electrodeposited square pyramid filing plate
ZH36 3mm
Useful for grind object's corner.

Only applicable to "Normal power mode", ZO-91 and ZO-95.

ZH24 4mm
Grinding stone #800
Color: Blue

ZH26 4mm
Grinding stone #120
Color: Green

ZH27 4mm
Grinding stone #180
Color: Gold

ZH28 4mm
Grinding stone #300
Color: Brown

ZH29 4mm
Grinding stone #400
Color: Orange

ZH30 4mm
Grinding stone #600
Color: Gray

ZH31 4mm
Grinding stone #1000
Color: White

ZH32 4mm
Grinding stone #1200
Color: Red

ZH51 4mm
Grinding stone #80
Color: Purple

Maintenance / Option

Get Maintenance set & Optional products to maintain and expand your unit's utility.

NEW Welding bar
Weld resin sheet and film sheet by pressing and sliding bar on overlapped sheets.

ZH54 Welding bar

ZH53 Bar anchor

ZH53 Bar anchor

ZH54 Bar anchor

Grinding stone bar **NEW**
Bar type grinding stone. Useful for polishing small size hole.

- ZH55** #80 Color: Purple
- ZH56** #120 Color: Green
- ZH57** #180 Color: Gold
- ZH58** #300 Color: Brown
- ZH59** #400 Color: Orange
- ZH60** #600 Color: Black
- ZH61** #800 Color: Blue
- ZH62** #1000 Color: White
- ZH63** #1200 Color: Red

ZH04 Blade anchor for ZO series

ZH04S Blade anchor set
Blade anchor ZH04 x 1
Blade anchor screw HB03 x 1
Hexagon wrench RR02 x 1

ZH15 Blade anchor for Thin blade ZH14 and ZH16

ZH15S Blade anchor for thin blade set
Blade anchor ZH15 x 1
Blade anchor screw HB03 x 1
Hexagon wrench RR02 x 1

ZH14S Thin blade set
Thin blade ZH14 (5 pcs.) x 1
Blade anchor screw HB03 x 1
Blade anchor ZH15 x 1

ZH16S Thin long blade set
Thin long blade ZH16 (5 pcs.) x 1
Blade anchor screw HB03 x 1
Blade anchor ZH15 x 1

ZH14SG Thin blade and goggle set
Thin blade ZH14 (5 pcs.) x 1
Blade anchor screw HB03 x 1
Blade anchor ZH15 x 1
Goggle ZH13 x 1

ZH16SG Thin long blade and goggle set
Thin long blade ZH16 (5 pcs.) x 1
Blade anchor screw HB03 x 1
Blade anchor ZH15 x 1
Goggle ZH13 x 1

ZH25T2 Torque screwdriver

ZH13 Goggle
Protect your eyes from broken and flew blade.

CM02 Cutting mat
3×150×200mm

ZH805 Blade protector
Protect that blade accidentally hits to something and damages it.

ZH804A Carrying case for ZO-95

ZH46A Carrying case for ZO-91

Replacement Blade Adaption List

※"O" is a mark that the blade could use with Normal or High mode, but not S-High mode. "N" is a mark that the blade could use with Normal, but not High mode and S-High mode.

		ZO-91	ZO-95
Blade	HA04	Standard blade	○ ○
	HA07	Cemented carbide blade	○ ○
	ZH48	Zirconia ceramic blade	○ ○
	ZH03	Curving blade (4 mm)	○ ○
	ZH18	Curving blade (1 mm)	○ ○
	ZH19	Curving blade (2 mm)	○ ○
	ZH20	Curving blade (3 mm)	○ ○
	ZH05A	Flat blade 1 mm	○ ○
	ZH06A	Flat blade 2 mm	○ ○
	ZH52	Flat round blade	○ ○
	ZH07	Flat plate 1 mm	○ ○
	ZH08	Flat plate 2 mm	○ ○
	ZH44	Double-edged triangular pyramid	○ ○
	ZH45	Circular tip φ0.4 blade	N N
	ZH11	Saw blade ZH11	○ ○
	ZH12	Square pyramid blade	○ ○
	HA09	Long blade for USW series	× ×
	ZH10	Long blade 25 mm	○ ○
	ZH38	Welding blade 2 mm	○ ○
	ZH09	Round tip blade(R 15)	○ ○
	ZH49	Electrodeposited curving filing blade 1 mm	○ ○
	ZH42	Round tip blade	○ ○
	ZH47	Electrodeposited round tip filing blade	○ ○
ZH41	Square blade	○ ○	
ZH14	Thin blade 0.15 mm	N N	
ZH16	Thin long blade	N N	
ZH23	Filing plate #325 4 mm	○※1 ○	
ZH34	Filing plate #325 1 mm	○ ○	
ZH35	Filing plate #325 2 mm	○ ○	
ZH36	Filing plate #325 3 mm	○※1 ○	
ZH39	Electrodeposited square pyramid filing plate	○ ○	
ZH01A	Sharp edge blade 16°(Revision)	N N	
Grinding stone	ZH24	Grinding stone #800	N N
	ZH26	Grinding stone #120	N N

		ZO-91	ZO-95	
Grinding stone	ZH27	Grinding stone #180	N N	
	ZH28	Grinding stone #300	N N	
	ZH29	Grinding stone #400	N N	
	ZH30	Grinding stone #600	N N	
	ZH31	Grinding stone #1000	N N	
	ZH32	Grinding stone #1200	N N	
	ZH51	Grinding stone #80	N N	
Blade anchor	ZH55~63	Grinding stone bar	N ×	
	ZH54	Welding bar	○ ○	
Maintenance goods	ZH04	Blade anchor for ZO series	○ ○	
	HB03	Blade anchor screw	○ ○	
	RR02	Hexagon wrench	○ ○	
Blade anchor set and set products	ZH25T	Torque screwdriver 60 cN · m	○ ○	
	SB01	Abrasive paper x 3 Cleaning bar x 1	○ ○	
	SB02	Abrasive paper x 10	○ ○	
	ZH04S	Blade anchor set	Blade anchor ZH04 x 1 Blade anchor screw HB03 x 1 Hexagon wrench RR02 x 1	○ ○
	ZH14S	Thin blade set	Thin blade ZH14 (5 pcs.) x 1 Blade anchor screw HB03 x 1 Blade anchor ZH15 x 1	N N
	ZH14SG	Thin blade and Goggle set	Thin blade ZH14 (5 pcs.) x 1 Blade anchor screw HB03 x 1 Blade anchor ZH15 x 1 Goggle ZH13 x 1	N N
	ZH15S	Blade anchor for thin blade set	Blade anchor ZH15 x 1 Blade anchor screw HB03 x 1 Hexagon wrench RR02 x 1	N N
Blade anchor set and set products	ZH16S	Thin long blade set	Thin long blade ZH16 (5 pcs.) x 1 Blade anchor screw HB03 x 1 Blade anchor ZH15 x 1	N N
	ZH16SG	Thin long blade and Goggle set	Thin long blade ZH16 (5 pcs.) x 1 Blade anchor screw HB03 x 1 Blade anchor ZH15 x 1 Goggle ZH13 x 1	N N

※1 The vibration might become weak when it has pressed strongly to metal.

Ultrasonic cutter Z0 series supports your work with 4 ways of

series supports your processing.

Deburring

Vibrated blade removes object's burrs by just cutting softly, and it improves object's appearance.



Polish

Vibrated grinding stone rubs off a rust of metal. Moderate unit power lessens damage causing to a metal.



Line engraving

Let's express your original design on object.



Weld

Press and slide welding blade (or bar) on overlapped vinyl sheet or plastic. Slide line melts by friction heat and overlapped materials will be weld.

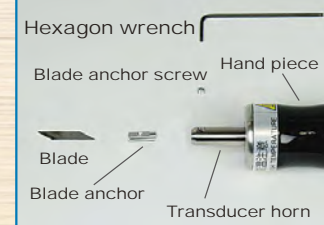


Maintenance Method ※Unit must be turned OFF under maintenance.

How to replace a blade anchor



① Remove blade anchor screw with hexagon wrench which has fixed on horn.
※ Please remove screw with long side stick of hexagon wrench.



② Clean or replace listed parts.
• Blade
• Blade anchor
• Blade anchor screw
• Inside the horn (Parts on the picture)



③ Replace a Blade anchor. If you often replace a blade, Torque screwdriver set (ZH25T2) is recommended to remove and tighten screw easily.



④ Blade anchor is a consumable product. Please replace when it has contaminated or broken.

How to clean a Transducer horn



① Set abrasive paper to cleaning bar (SB01).



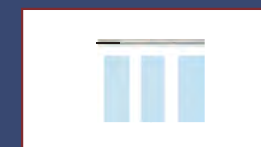
② Wind abrasive paper to cleaning bar.



③ Insert bar into the horn and rotate abrasive paper.



④ Insert swab into the horn and clean contamination.



Maintenance set SB01
Please clean inside the horn periodically. Otherwise, it might lead unit malfunction.



Maintenance set SB02
Abrasive paper in Maintenance set could clean inside the horn without damaging. (10 pcs. set)

