

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. 12kg 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	•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) • Blade anchor ZH04: 1 pc. • Blade anchor screw HB03: 3 pcs. • Hexagon wrench RR02: 1 pc. • Edge protector ZH805: 1 pc.

*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.



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

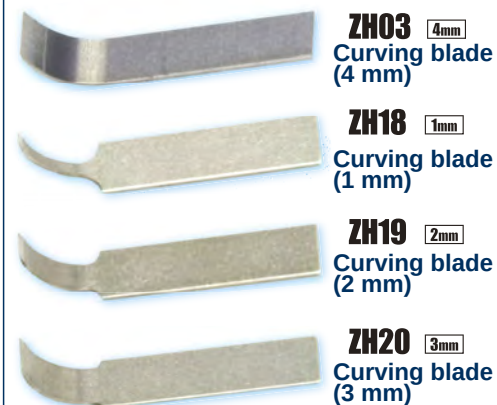
Replacement blades

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.

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



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



Cone shaped blade. Useful for marking work.

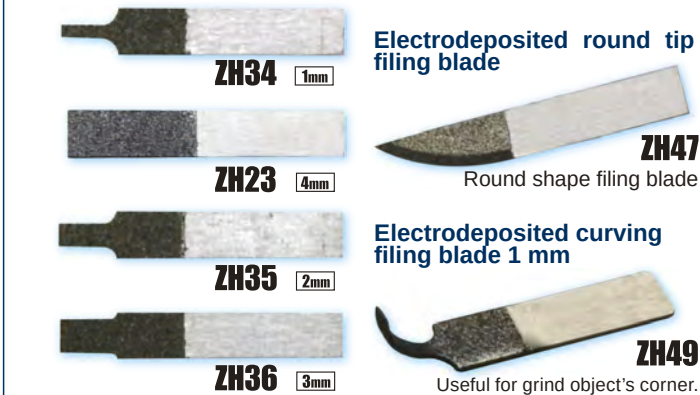


Requested blade to cut gourd. It's also useful for cutting silicone.



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

Filing plate #325



Electrodeposited square pyramid filing plate

Electrodeposited round tip filing blade

Electrodeposited round shape filing blade

Electrodeposited curving filing blade 1 mm

Useful for grind object's corner.

Standard blade
40 pcs. set.



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



HA04

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

HA07

ZH48

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



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



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.



Special blade which have requested to make from museum.



Useful for grooving work.



25 mm length blade. Specialized for cork processing.



Grinding stone has been made for polishing mold. Even if colored stone part wears, it could keep use black part. Let's clean metal products with grinding stone!

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

ZH24

Grinding stone #800
Color: Blue

ZH26

Grinding stone #120
Color: Green

ZH27

Grinding stone #180
Color: Gold

ZH28

Grinding stone #300
Color: Brown

ZH29

Grinding stone #400
Color: Orange

ZH30

Grinding stone #600
Color: Gray

ZH31

Grinding stone #1000
Color: White

ZH32

Grinding stone #1200
Color: Red

ZH51

Grinding stone #80
Color: Purple

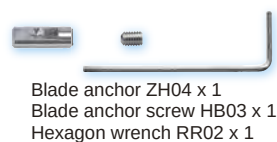
Maintenance / Option

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

ZH04
Blade anchor
for ZO series



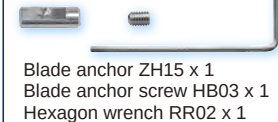
ZH04S
Blade anchor set



ZH15
Blade anchor
for Thin blade
ZH14 and ZH16



ZH15S
Blade anchor
for thin blade set



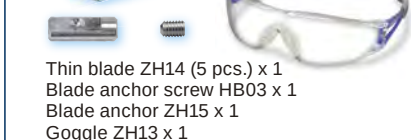
ZH14S
Thin blade set



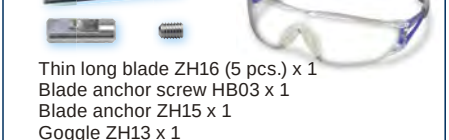
ZH16S
Thin long blade set



ZH14SG
Thin blade and goggle set



ZH16SG
Thin long blade and goggle set



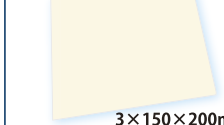
ZH25T2
Torque screwdriver



ZH13
Goggle



CM02
Cutting mat



ZH805
Blade protector



ZH804A
Carrying case
for ZO-95



Replacement Blade Adaption List

		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 ◎
Grinding stone	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

※"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
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	◎	◎
	ZH04	Blade anchor for ZO series	◎	◎
	HB03	Blade anchor screw	◎	◎
Maintenance goods	RR02	Hexagon wrench	◎	◎
	ZH25T	Torque screwdriver 60 cN · m	◎	◎
	SB01	Abrasive paper x 3 Cleaning bar x 1	◎	◎
Blade anchor set and set products	SB02	Abrasive paper x 10	◎	◎
	ZH04S	Blade anchor set	◎	◎
	ZH14S	Thin blade set	N	N
	ZH14SG	Thin blade and Goggle set	N	N
	ZH15S	Blade anchor for thin blade set	N	N
	ZH16S	Thin long blade set	N	N
	ZH16SG	Thin long blade and Goggle set	N	N

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

Ultrasonic cutter Z0

work with 4 ways of

Deburring

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



series supports your processing.

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.

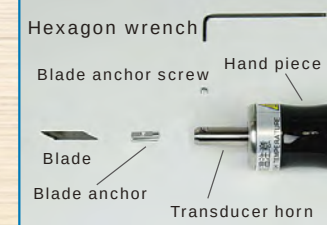


Maintenance Method ※Unit must be turned OFF under maintenance.

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.

X
NG

O
OK

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)

