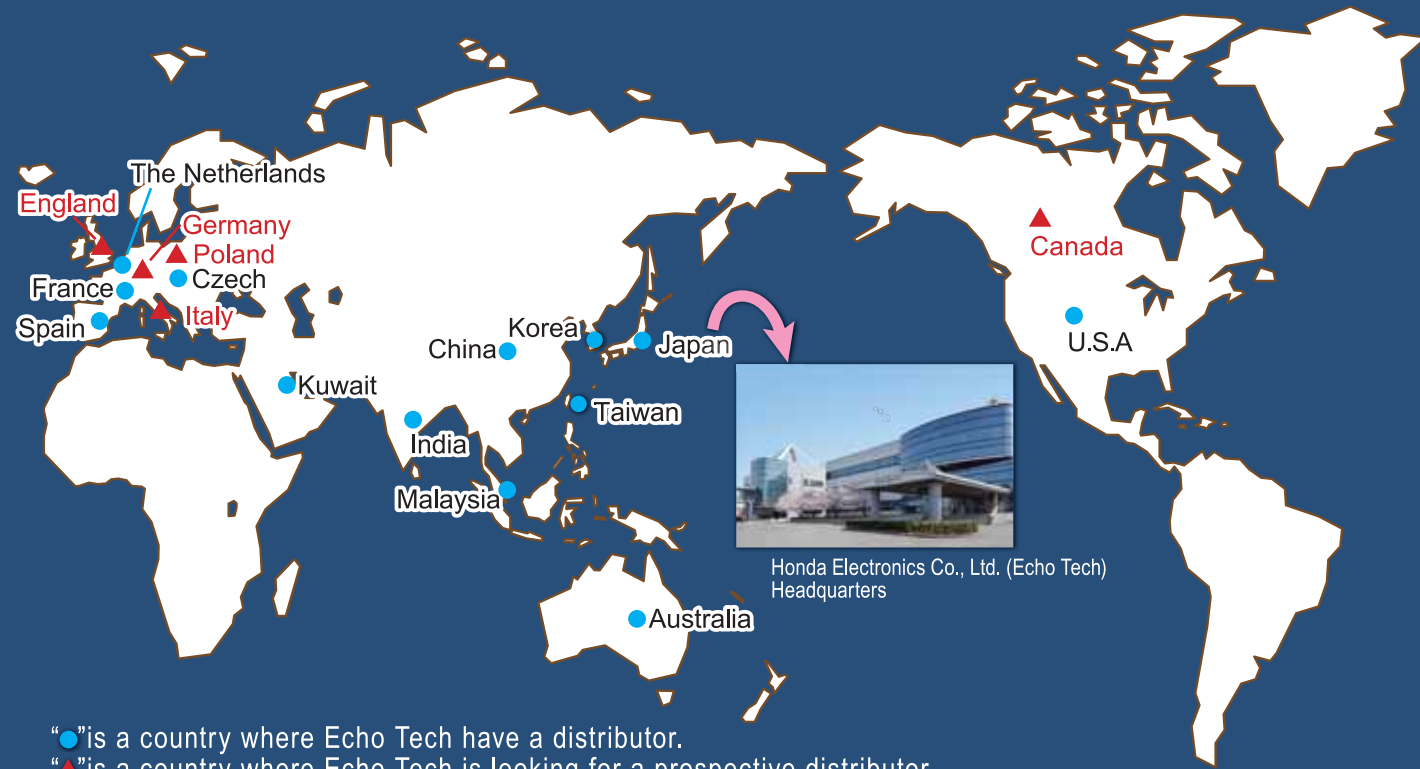


Echo Tech distributor location



● 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



Echo Tech social media accounts



YouTube

▶ /@Echotech oversea channel



X

✂ @Echotech.,staff



Facebook

echotech Co.,Ltd.



Instagram

Echotech Co.,Ltd.



Tik Tok

Echotech Co.,Ltd.



General sales agent:



20 Oyamazuka, Oiwa-cho, Toyohashi, Aichi 441-3131

Tel: +81-532-65-5158 / Fax: +81-532-65-5159

https://www.echotech.co.jp/en/

worldinfo@us-dolphin.co.jp

Manufacturer:



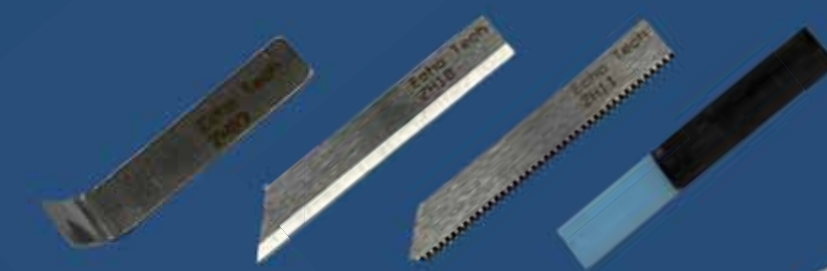
20 Oyamazuka, Oiwa-cho, Toyohashi, Aichi 441-3193

Registered company for ISO9001 and ISO14001

< Contact >

25-123

26 December, 2024 Printed in Japan



Attended Exhibitions



Ultrasonic Cutter Z0 series

ULTRASONIC CUTTER BLADE'S HIGH SPEED AND FINE VIBRATION (40 kHz/40,000 TIMES PER SECOND) DRASTICALLY IMPROVE CUTTING PERFORMANCE. IT ABLE TO CUT, WELD, POLISH VARIOUS MATERIALS. SINCE 2016, WHICH IS A YEAR THAT WE RELEASED OVERSEAS MODEL, THE MARKET IS EXPANDING AROUND THE WORLD.

Ultrasonic Cutter Z0-95

Professional model



S-HIGH MODE WORKS VERY POWERFULLY. TORQUE SCREWDRIVER ZH25T2 & FOOT SWITCH ZH801 ARE STANDARD SET.

ZH25T2, ZH801, ZH805 are standard set of Z0-95. Those products could be also placed order for each.



ZH802 Hand piece for Z0-95

ZH25T2 Torque screwdriver

ZH801 Foot switch for Z0-95

Ultrasonic Cutter Z0-91

Standard model

-PUSH HAND PIECE SWITCH JUST ONCE AND BLADE WILL START VIBRATION. (NO NEED TO HOLD A HAND PIECE SWITCH. LED LIGHT ON HAND PIECE WILL LIGHT UP WHEN THE UNIT IS OPERATING)
-POWER MODE COULD CONTROL WITH OUTPUT CONVERSION SWITCH.



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 Hand piece: φ28×150 (include blade)
Power mode	S-High/High/Normal *2
Operating condition	Temperature: 10 to 35°C (without condensation)
Weight	Main unit: Approx. 1.2kg Hand piece: 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 will activate when the blade anchor screw has loosened or when the unit has overloaded. Z0-95 will be automatically turn OFF when it has used without attaching foot switch (ZH801).
Accessories	<ul style="list-style-type: none"> • Standard blade HA04: 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 ZH25T2: 1 pc. • Foot switch for ultrasonic cutter Z0-95 ZH801: 1 pc. • Blade 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)
Weight	Main unit: Approx. 300 g Hand piece: Approx. 70 g (include hand piece cable)
Protection circuit	Temperature sensor has installed inside the hand piece. Detection circuit will activate when the blade anchor screw has loosened or when the unit has overloaded.

Hand piece cable	1.6 m (straight cable)
Accessories	<ul style="list-style-type: none"> • Standard blade HA04: 40 pcs./case (include unusable blades with hole) • Blade anchor ZH04: 1 pc. • Blade anchor screw HB03: 3 pcs. • Hexagon wrench RR02: 1 pc. • Blade 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 time 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/>



Make contact us from our contact form page.

Standard blade
40 pcs. set.
HA04

Zirconia ceramic blade
Zirconia ceramic blade is an insulator, useful for disassembling electronic
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)

Jagged blade like a saw. Specialized for carbon processing.

ZH11
Saw blade

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

ZH07 ^{1mm}
Flat plate (1 mm)

ZH08 ^{2mm}
Flat plate (2 mm)

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

ZH38
Welding blade (2 mm)

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 bent easier, but it minimizes material melting.

ZH14
Thin blade (5 pcs.)

ZH16
Thin long blade (5 pcs.)

Special blade which has been ordered from museum.

ZH45
Circular tip φ0.4 blade

The compact edge is useful for cutting curve line.

New ZH68
Small protruded blade 30°

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

ZH44
Double-edged triangular blade

Useful for grooving work.

ZH41
Square blade

Cone shaped blade. Useful for marking work.

ZH12
Square pyramid blade

Requested blade for cloth processing.

ZH52
Flat round blade

25 mm length blade. Specialized for cork processing.

ZH10
Long blade (25 mm)

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

ZH01A
Sharp edge blade 16°

Grinding stone was made for polishing mold. Even if colored stone part wears, it could keep use black part. Let's clean

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

Filing plate #325

ZH34 ^{1mm}
Electrodeposited square pyramid filing plate

ZH39
Electrodeposited round tip filing blade

ZH47
Round shape filing blade

ZH23 ^{4mm}
Electrodeposited curving filing blade 1 mm

ZH35 ^{2mm}
Electrodeposited curving filing blade 1 mm

ZH49
Useful for grinding object's corner.

ZH36 ^{3mm}

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

ZH54

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

Only for 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

Grinding stone bar

Bar type grinding stone. Useful for polishing small size hole.

NEW

- 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

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

It protects from blade accidentally hits to something and damaging.

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※1	N
	ZH23 Filing plate #325 4 mm	○	○
	ZH34 Filing plate #325 1 mm	○	○
	ZH35 Filing plate #325 2 mm	○※1	○
	ZH36 Filing plate #325 3 mm	○	○
	ZH39 Electrodeposited square pyramid filing plate	○	○
	ZH01A Sharp edge blade 16°(Revision)	N	N
	ZH68 Small protruded blade 30°	○	○

New ZH67 Type-C cable for USB-PD12V

A cable connects ultrasonic cutter and mobile battery with C type plug.

		ZO-91	ZO-95
Grinding stone	ZH24 Grinding stone #800	N	N
	ZH26 Grinding stone #120	N	N
	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
	ZH55~63 Grinding stone bar	N	×
Other optional parts	ZH53 Bar anchor	○	○
	ZH54 Welding bar	○	○
	ZH04 Blade anchor for ZO series	○	○
Maintenance set	SB01 Abrasive paper x 3 Cleaning bar x 1	○	○
	SB02 Abrasive paper x 10	○	○
Set of blade anchor and set products	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 be weakened when the tip is pressed to metal.

Ultrasonic Cutter ZO

work with 4 ways of

Depending on the working material, its thickness, or way of processing, there might be differences in unit performance.

Cut

ZO series cuts plastic like butter, and also its range of applicable material is wide. Blade's high-speed, fine vibration cuts even small burrs smoothly and cleanly.



Design

By engraving, melting, making hole or mark on surface of working materials, it is able to make objects to your original design.



Weld

By pressing and sliding welding blade (or bar) on overlapped vinyl sheet, friction heat melts and welds sheet. Welding bar could also do spot welding on overlapped plastics.



series supports your processing.

Polish

"Grinding stone" and "Filing plate" edge is sanded for polishing metal. It polishes rust gently, reducing damage on material.

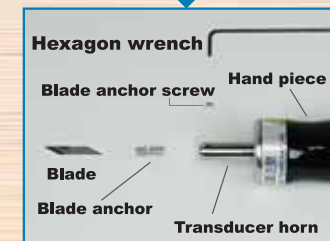


How to Maintenance ※When you perform maintenance, the unit must be turned OFF.

How to replace a blade anchor



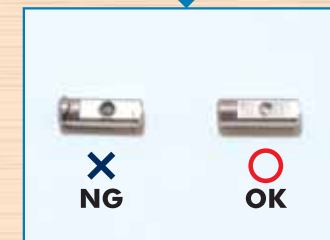
① Loosen a blade anchor screw with hexagon wrench.
※ Use longer side of hexagon wrench to loosen screw.



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



③ Replace a blade anchor. If you often replace a blade, the work becomes easier if you get Torque screwdriver set (ZH25T2).



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

How to clean inside of transducer horn



① Set abrasive paper to cleaning bar (SB01).



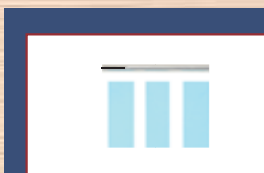
② Wind abrasive paper to cleaning bar.



③ Insert cleaning bar inside the horn and rotate it.



④ Insert swab inside the horn and clean contamination.



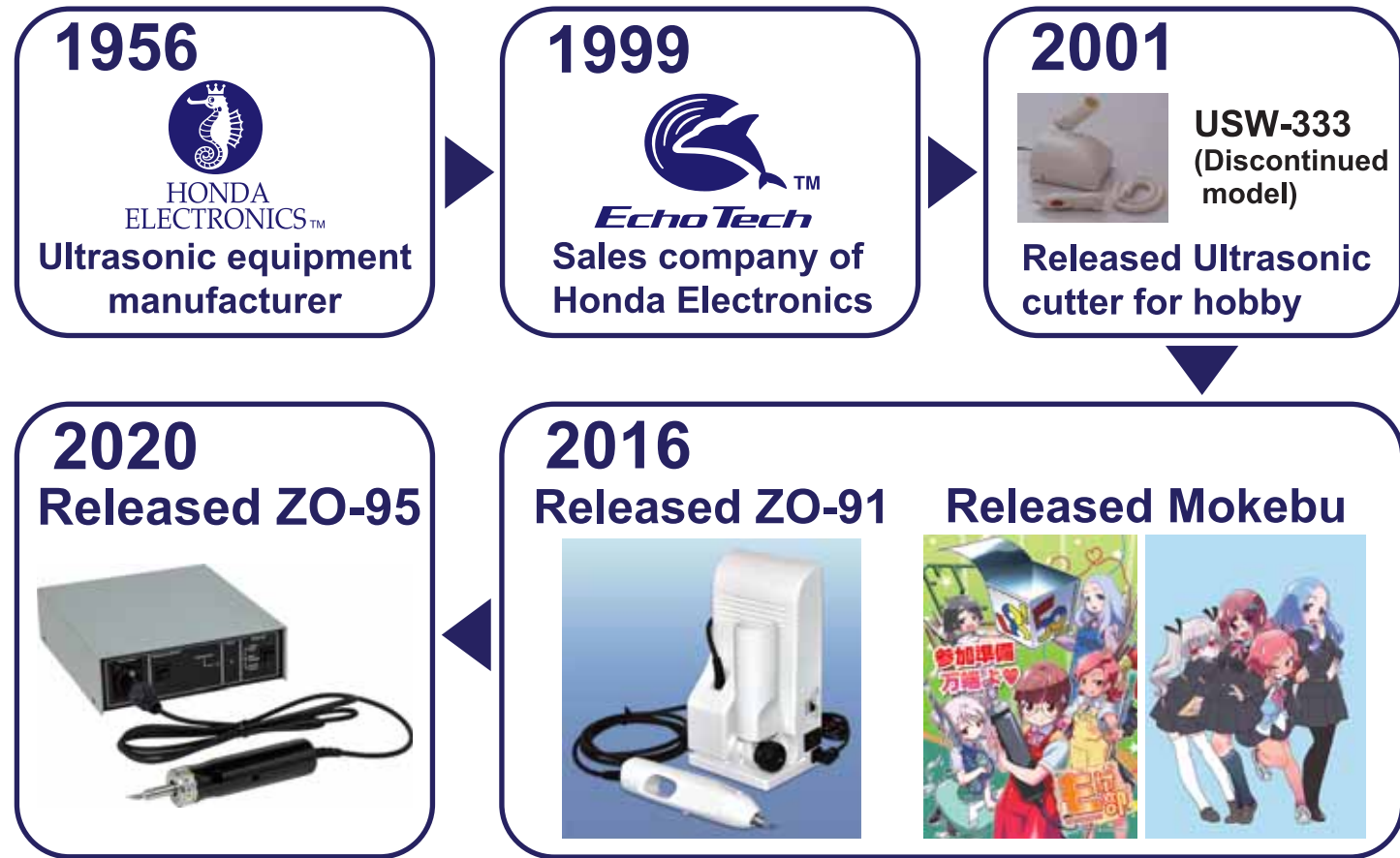
Maintenance set SB01
Cleaning bar and abrasive paper set. If contamination inside horn has leaved, it might become cause of unit trouble.



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



Progress of Echo Tech



Multifunctional stationery "BEST Ruler"



Both rulers function are different.

Point 1 Straight line

BEST ruler is elaborately designed to draw line and for measuring. Hook (A) on BEST ruler stops pen at the zero point and it able to draw a line with accurate length. Because BEST ruler is transparent, it able to draw line with both right and left-hand by reversing ruler.

Point 2 Triangle ruler

It able to draw a corner with 30, 45, 90 degrees (B) by following guides on ruler. First, write mark on either degree's point and draw a line with moving ruler. It able to draw a corner with designated angle by drawing line between zero point and mark.

Point 3 Protractor

By overlapping point (A) on drawn diagram, it able to measure diagram corner's angle. It also able to draw a corner with various degrees (C).

Point 4 Caliper

Because the point (D) corner is right angle, it able to measure a length by hooking corner to material's edge. It could also measure rounded material.

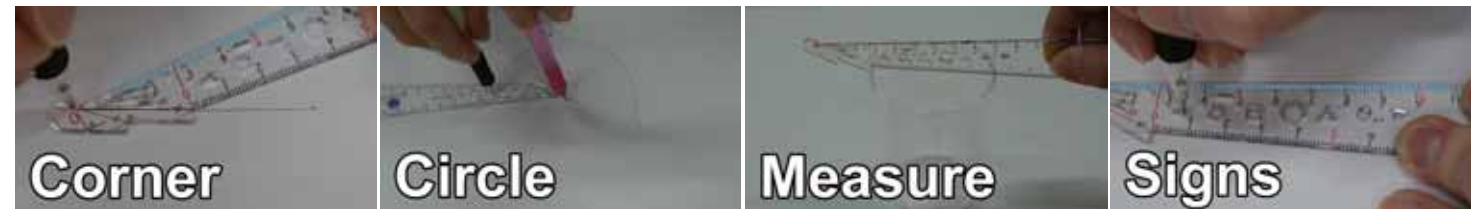
Point 5 Compass

Use two pens to draw a circle. Hook a pen to point (A) and set the other pen in either centimeter's hole. It could draw a circle by turning ruler and drawing, taking point (A) as a center position.

How to use

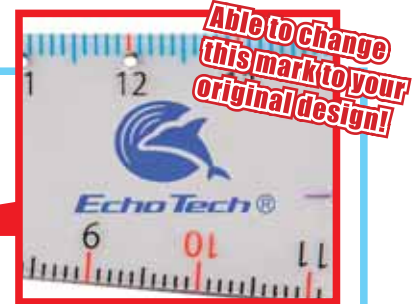


Promotion video



BEST ruler is a stationery that has function of protractor, compass, triangle and caliper. It is designed by Mr. Nakamura, a chairman of UHOLABO Co., Ltd. BEST ruler is now being started used at workplaces as a support tool of designing and studies.

BEST ruler with your original logo and signature!!



The part where Echo Tech logo has printed could be changed. Feel free to contact us from QR code for more details of setting logo or signature.

Make contact to Echo Tech for more details!

Contact form: <https://echotech.co.jp/en/contact/>



Attending to international exhibitions!

Japan Expo (France)

Spielwarenmesse (Germany)

Modellbaumesse (Austria)

JIMTOF (Japan)



SMC (The Netherlands)

Wonder Festival (Thailand)

AMTS (China)

Taiwan 3D Printing & Additive Manufacturing Show (Taiwan)



Markets of Ultrasonic Cutter ZO series

Hobby

Plastic model, figurine, diorama, RC, etc. For various hobby stuffs, ZO series is useful for fine processing. Not only for cutting parts from runner, it could also be able to remodel parts to creator's original design by cutting body. ZO series raises your level of modeling.



Cutting car model's body.

Zimmerit coating on tank model's body.



Art

For creators who use various materials, ZO series is very supportive because of its wide range of application. To express original ideal design, or working on materials which is uneven surface, ZO series raises the working quality and shortens your working time.



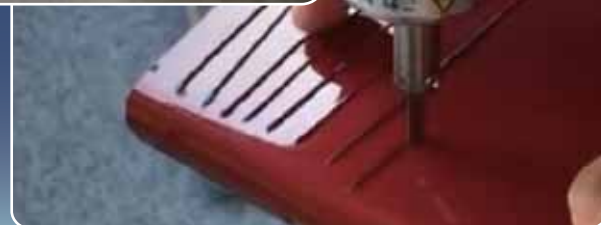
Cutting medium density fiberboard.

Cutting eggshell.



Polishing mold.

Cutting plastic case made by ABS.



Manufacturing

ZO series for hobby is low power compared with tools for industrial use, but it could cut lessening damage on materials because it doesn't give large impact. ZO series could also polish metal parts by replacing to grinding stone. To maintain metallic parts, it has popularly used at various workplaces.



Burned tabletop.

Cut tabletop.



Fire station

After putting out fire, to specify the origin of fire, ZO series is used for cutting brittle burned materials in Japan. Because those materials might become important evidence at court, there is a demand of tool's performance that gives hardly impact to materials.

3D printing

ZO series could easily cut support materials and burrs. Compared with other tools, ZO series reduces resistance from working material because of its sharpness. It could shorten user's repeating, fine works on hard materials. ZO series is one of the few tools that able to process on 3D printing.



Deburring 3D printer resin.

Cutting 3D printer resin.



Fossil

ZO series could clean a surface of fossil. There are over 50 types of replacement blades including grinding stone, specialized for "polishing". Stone, moss, bone, etc. such natural materials, or which has uneven surface, ZO series flexibly corresponds and able to process easier.



Grinding moss.

Shaving Fossil.

