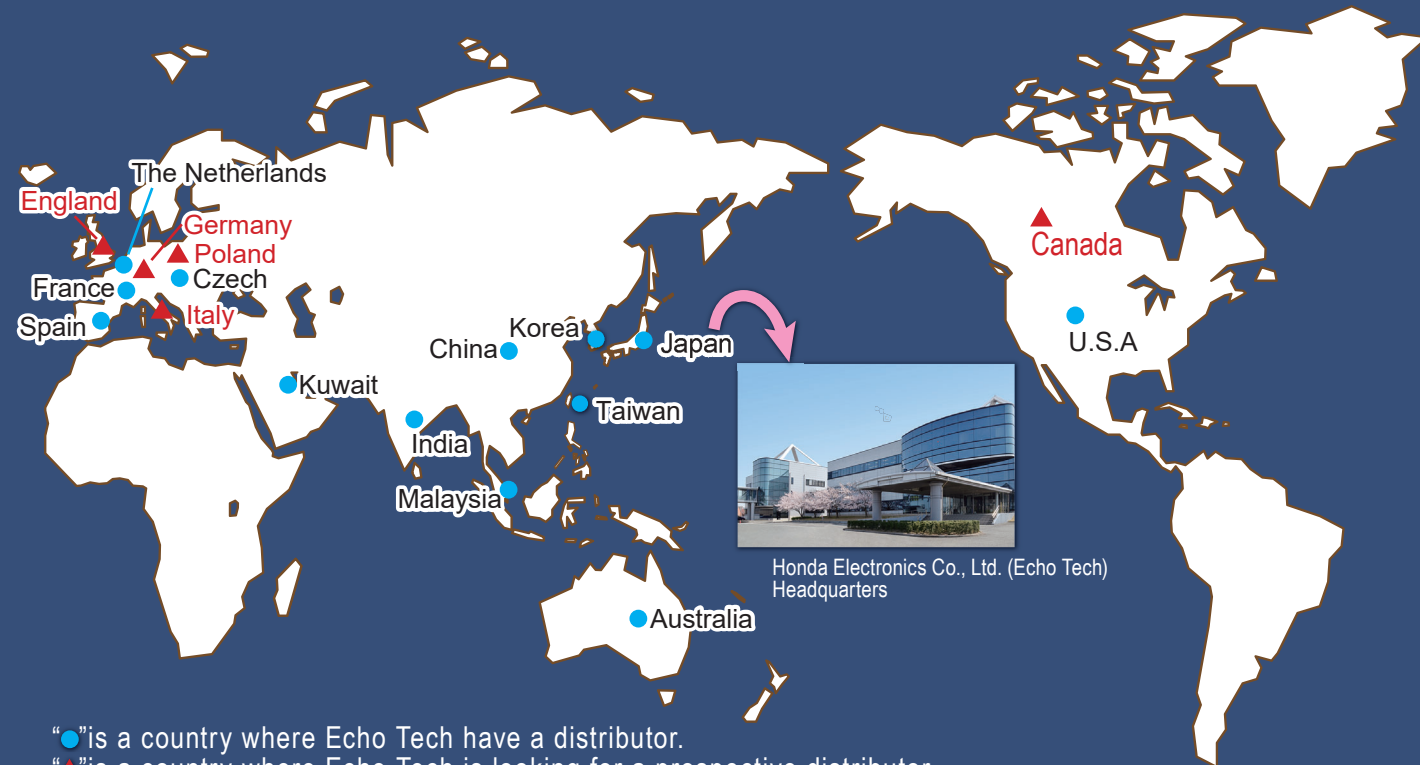


Echo Tech distributor location



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



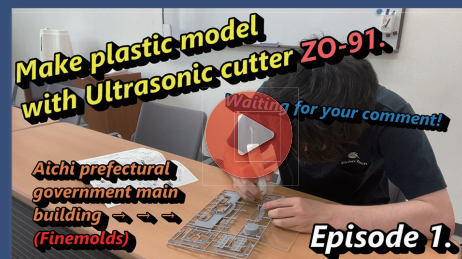
Honda Electronics Co., Ltd. (Echo Tech) Headquarters

ULTRASONIC CUTTER Z0 series

Cut plastic like butter



Echo Tech social media accounts



YouTube

▶ / Echotech oversea channel



Twitter

🐦 @Echotechstaff



Facebook

echotechco.ltd



Instagram

Echotech Co.,Ltd.



Tik Tok

Echotech Co.,Ltd.



General sales agent:

Echo Tech co., LTD.
 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:

HONDA ELECTRONICS CO., LTD.
 20 Oyamazuka, Oiwa-cho, Toyohashi, Aichi 441-3193
 Registered company for ISO9001 and ISO14001

< Contact >

23-236

Japanese Product

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 OF ULTRASONIC CUTTER Z0 SERIES. S-HIGH MODE WORKS VERY POWERFULLY. TORQUE SCREWDRIVER ZH25T2 & FOOT SWITCH ZH801 ARE SET.

Ultrasonic Cutter Z0-91



-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. 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 ZH25T2: 1 pc. •Foot switch for ultrasonic cutter ZO-95 ZH801: 1 pc. •Blade 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 time or regularly. It might shorten a life of unit.
※ Specifications and appearance are subject to change without notice.

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	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. • Blade protector ZH805: 1 pc.

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

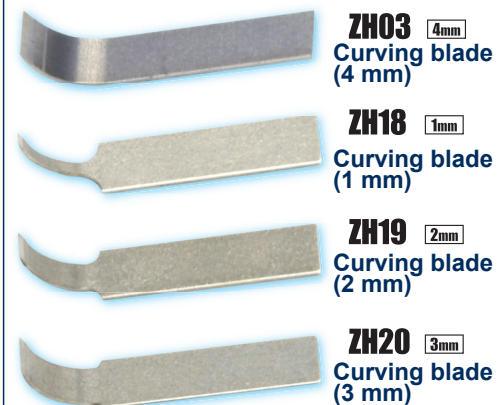
Replacement blades

Scan this QR code to get more product information.

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

Make contact us from our contact form page.

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



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



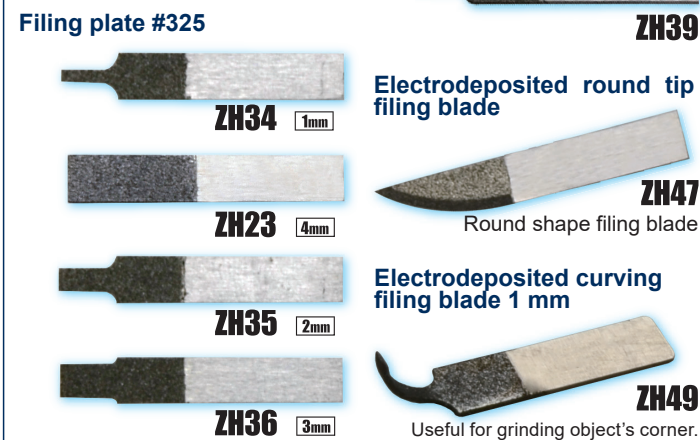
Cone shaped blade. Useful for marking work.



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.



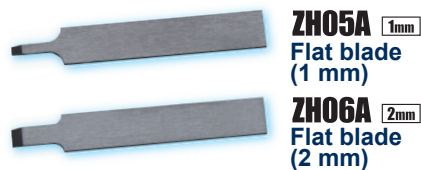
Standard blade
40 pcs. set.



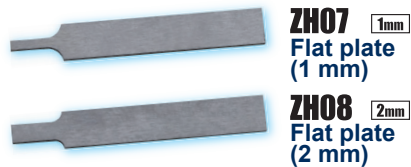
Zirconia ceramic blade
Zirconia ceramic blade is an insulator, useful for disassembling electronic components.



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.



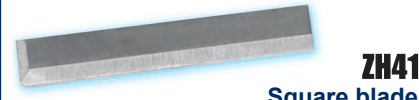
The blade which has requested to make for welding film sheet. It welds sheets by friction heat of vibration.



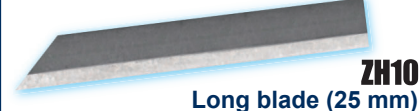
Special blade which has been ordered from museum.



Useful for grooving work.

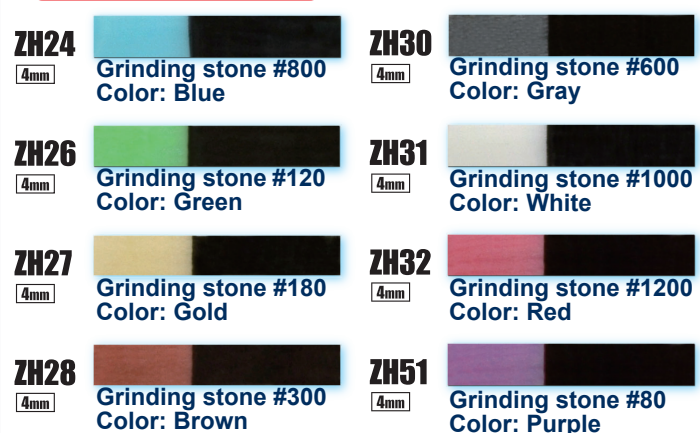


25 mm length blade. Specialized for cork processing.



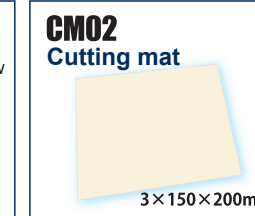
Grinding stone was made for polishing mold. Even if colored stone part wears, it could keep use black part. Let's clean metal products with grinding stone!

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



Maintenance Option

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



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	○	○
Grinding stone	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
	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
	ZH55 ~ 63	Grinding stone bar	N	×
Blade anchor	ZH54	Welding bar	○	○
	ZH04	Blade anchor for ZO series	○	○
	HB03	Blade anchor screw	○	○
	RR02	Hexagon wrench	○	○
	ZH25T2	Torque screwdriver 60 cN・m	○	○
Maintenance goods	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 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
	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 ZO

work with 4 ways of

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

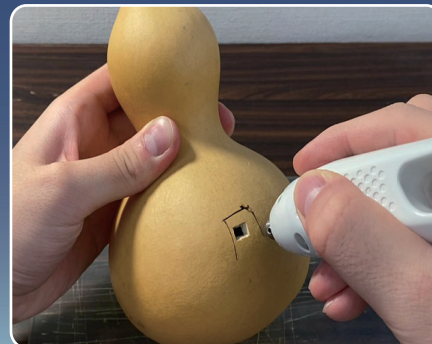
Cut

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 object to your original design.



Weld

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



series supports your processing.

Polish

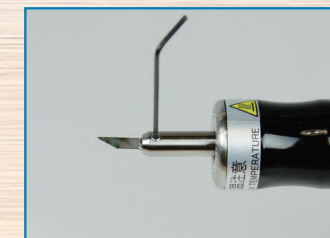
"Grinding stone" and "Filing plate" edge is sanded for polishing metal. It polishes rust gently, reducing damaging on material.



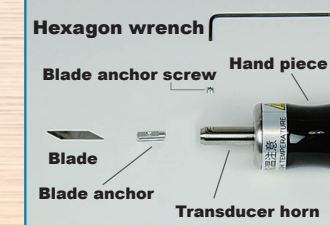
How to Maintenance

※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)

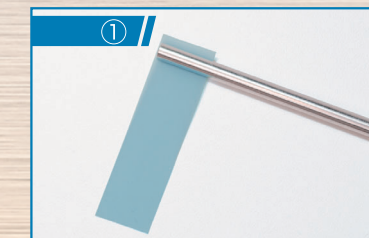


③ //
Replace a blade anchor. If you often replace a blade, the work becomes easier if you get Torque screwdriver set (ZH25T2).



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).



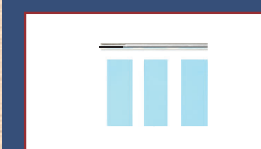
② //
Wind abrasive paper to cleaning bar.



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

1956



HONDA
ELECTRONICS™
Ultrasonic equipment
manufacturer

1999



Echo Tech™
Sales company of
Honda Electronics

2001



USW-333
(Discontinued
model)

Released Ultrasonic
cutter for hobby

2020

Released ZO-95



2016

Released ZO-91



Released Mokebu



Attending to international exhibitions!

Japan Expo Paris (France)



Spielwarenmesse (Germany)



Modellbaumesse (Austria)



JIMTOF (Japan)



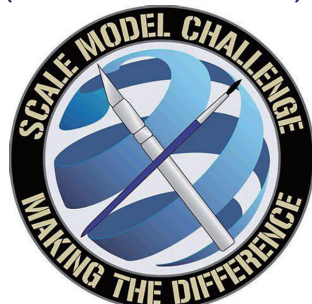
2023

Wonder Festival
(Thailand)

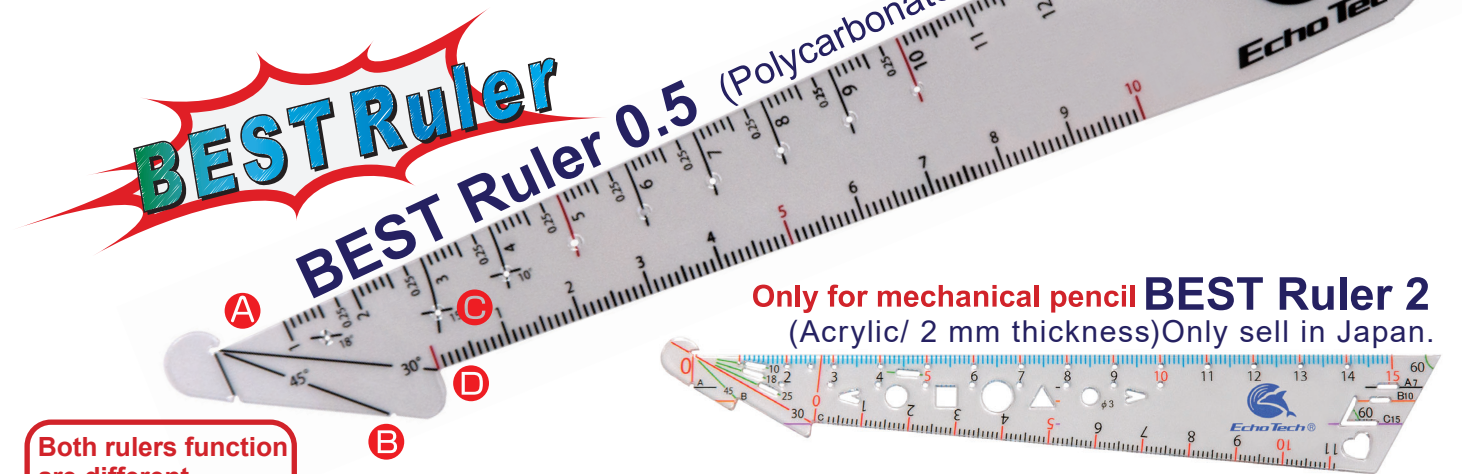


Wonder Festival
2023 Bangkok

SMC
(The Netherlands)



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 without 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

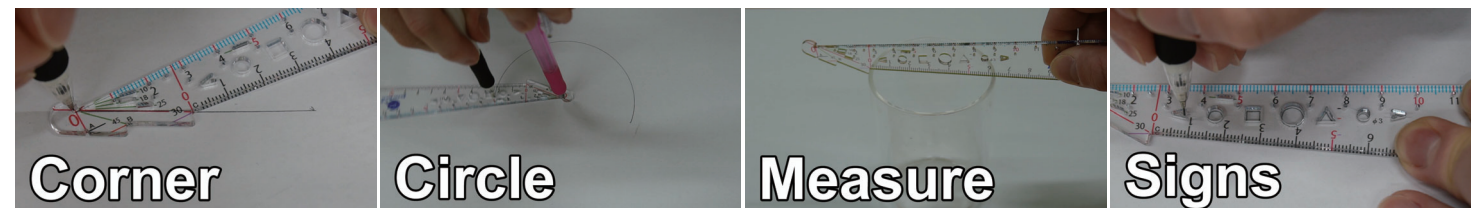
Compass

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/>



Able to change
this mark to your
original design!

Markets of Ultrasonic Cutter ZO series

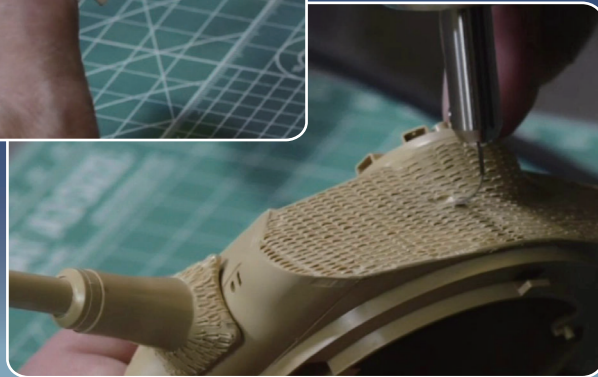
Hobby

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 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.



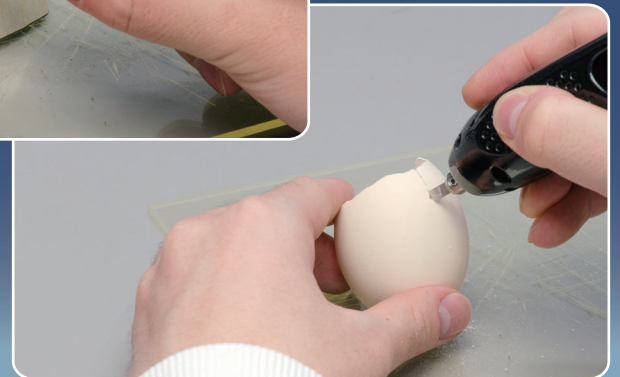
Art

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.



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.

Polishing mold.

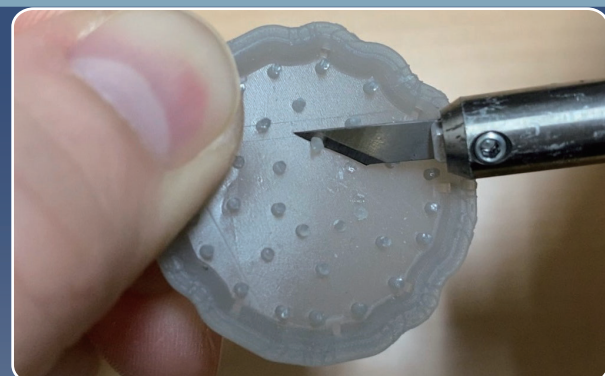


Cutting plastic case made by ABS.



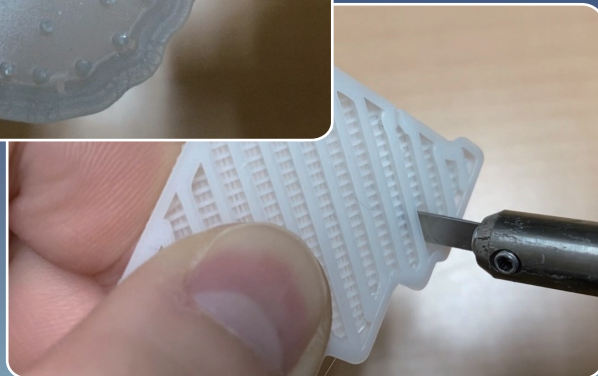
3D printing

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.

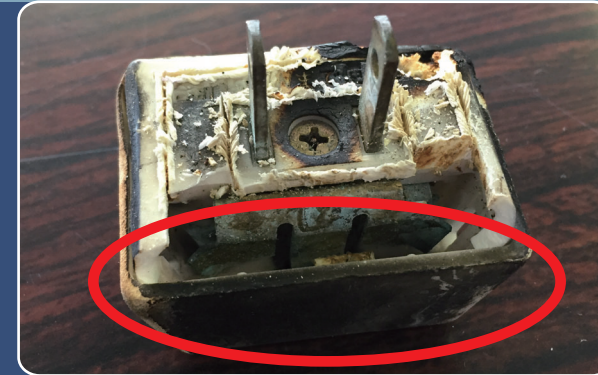
Shaving Fossil.



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.

Burned tabletop.



Cut tabletop.

