

PRECISO-CL Series Precision Diamond Saw



CL40

- Anti-corrosive aluminum alloy body and stainless components
- Automatic stop cutting protection device
- Gravity feeding system minimizes a deformation of delicate parts
- Horizontal movement micro-adjustment from 0.01~25mm
- Intuitive operation panel
- Various clamps available for choice



*Perfect Surface.
Always*

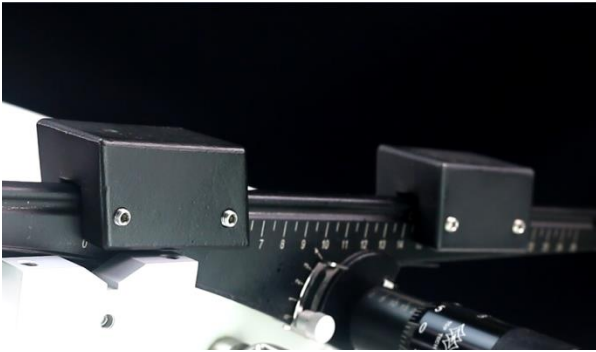
Introduction & Feature

- Application range: research & education institution, electronic industry, and manufacturing industry
- Suitable for ceramic, plastic, steel, copper, iron and delicate parts

Anti-corrosive aluminum alloy body and stainless components

Counterweight rock arm cutting

Adjust loading pressure according to sample materials, which can minimize a deformation of delicate parts.



Horizontal movement micro-adjustment

Micrometer device movement from 0.01~25mm.



Spindle speed variation function

A variable spindle rotational speed from 0 to 400rpm. A Low speed cutting effectively prevents a thermal deformation.

Automatic stop cutting protection device

The device can be adjusted flexibly according to sample dimensions, which can save cutting time.



Intuitive operation panel

Friendly interface and intuitive buttons.



Low noise and low vibration

Suitable for research & education institution and laboratory application.

Introduction & Feature

Hidden water tank

Easy to remove to take the sample or replace cutting fluid.



Dressing system (Option)

Dressing a cut off wheel properly to extend its life span and keep it sharp. The dressing system can also be used during cutting.

Transparent full closure (Option)

Transparent full closure offer a complete visibility on the cutting chamber, and it avoids hands or objects becoming entangled in moving parts of machinery.

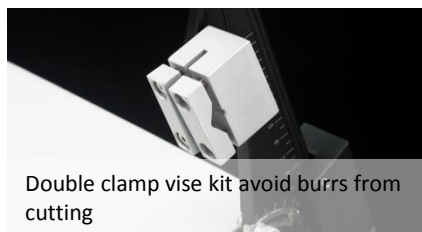


Electric magnetic Interlock (Option)

Opt for the electric magnetic interlock with transparent full closure to ensure safety during cutting.

Various clamps for choice (Option)

Easy to replace clamps. Choose the clamps according to dimensions, shapes and features of samples to enhance flexibility of operation.



Double clamp vise kit avoid burrs from cutting



Round vise kit is suitable for round samples or mounted samples cutting



Fragile vise kit is suitable for glass or thin samples cutting



Round and elliptic vise kit is suitable for round samples or square samples cutting



Irregular shape vise kit is suitable for samples with abnormal shape

Cutting Capacity of Standard Vise

Cut-off wheel	● ↙		■ ↙	
	A(mm)	A cutting area (mm ²)	E(mm)	E x D(mm ²)
3"	15	170	15	15x5
4"	28	610	40	40x12
5"	40	1250	40	40x25

The measure of square area:

Max width is E, $E \times D \leq A$ cutting area

Material restrictions are non-ferrous metals, non-metallic, titanium, precision cutting, polymer materials, aluminum alloy and tungsten steel



CL400044A (Standard vise)
Long type vise kit (Ø40)



CL400052-L
Long type vise kit (Ø20)



CL400070-D
Double clamp vise kit (Ø20)



CL400051A
Irregular shape vise kit



CL50051001A
Round vise kit (Ø32mm)







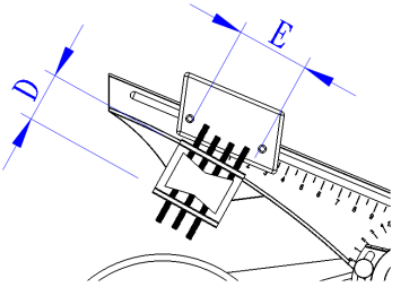
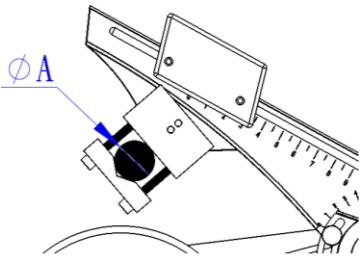
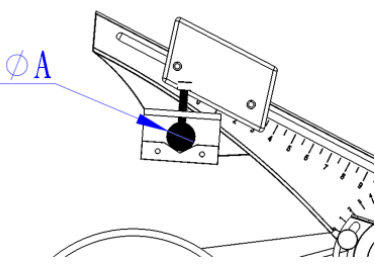






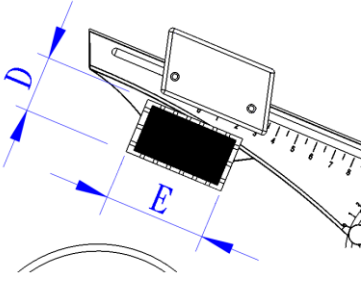
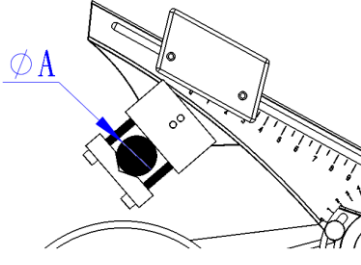
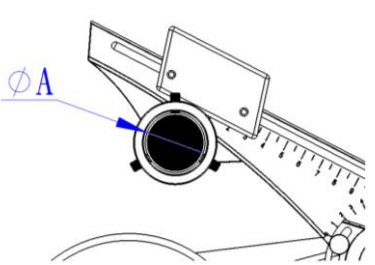


CL400053
Round/elliptic vise kit



CL400054A
Fragile vise kit

Cutting Capacity of Optional Vise

CL400051A Irregular shape vise kit		CL400052-L Long type vise kit (Ø20)		CL400053 Round/ elliptic vise kit	
 ↙	 ↙	 ↙	 ↙	 ↙	 ↙
A (mm)	E x D (mm)	A (mm)	E x D (mm)	A (mm)	E x D (mm)
-	38x25	Max. 20	20x30	Max. 14	38x10
					
CL400054A Fragile vise kit		CL400070-D Double clamp vise kit		CL50051001A Round vise kit	
 ↙	 ↙	 ↙	 ↙	 ↙	 ↙
A (mm)	E x D (mm)	A (mm)	E x D (mm)	A (mm)	E x D (mm)
Max. 28	50x28	Max. 20	20x30	Max. 32	-
					

Desk for Metallographic Equipment (Option)



Model No.

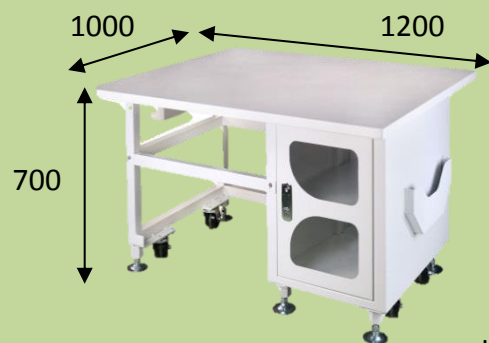
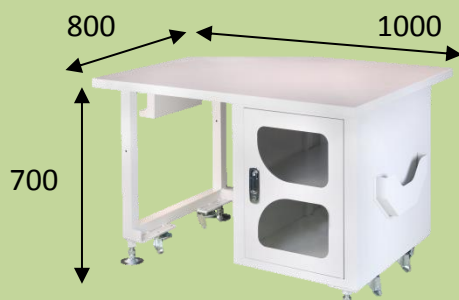
TF01

TF02

Dimension(WxDxH)

1000*800*700 mm

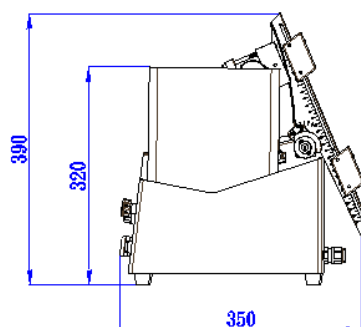
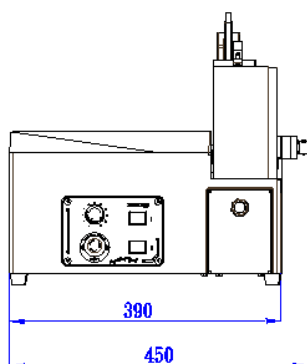
1200*1000*700 mm



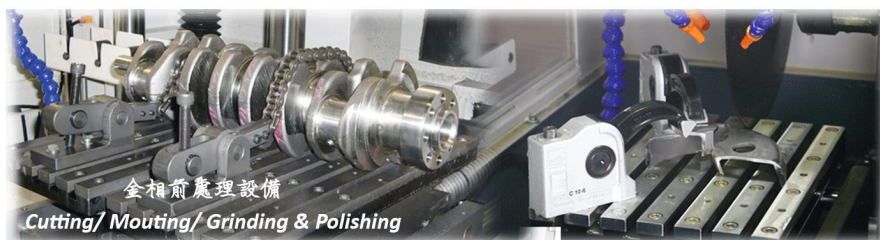
Unit: mm

Specification

Model No.	CL40
Motor Power (w)	40
Cutting Ability (mm)	Max. $\varnothing 40$
Cut-off Wheel	$\varnothing 3'' \sim \varnothing 5''$ ($\varnothing 76.2\text{mm} \sim \varnothing 125\text{mm}$)
Idling Noise Level (dB)	55~62
Loading Pressure (g)	Counterweight 0~400
Cutting Method	Rock arm feeding system Automatic stop cutting protection device
Rotational Speed (rpm)	0~400
Cutting Vise (Standard)	Long type vise kit
Horizontal Movement (mm)	0.01 ~ 25
Coolant Tank Capacity (mL)	400
Machine Dimension WxDxH (mm)	440 x 420 x 350
Machine Weight (kg)	19
Power Supply (V)	AC 110/220 1 \varnothing
Standard Accessories	Coolant 1 L 、 Standard Vise*1($\varnothing 40$)
Options	Various Vise, Dressing System, Cut-off Wheel, Transparent Full Closure, Electric Magnetic Lock



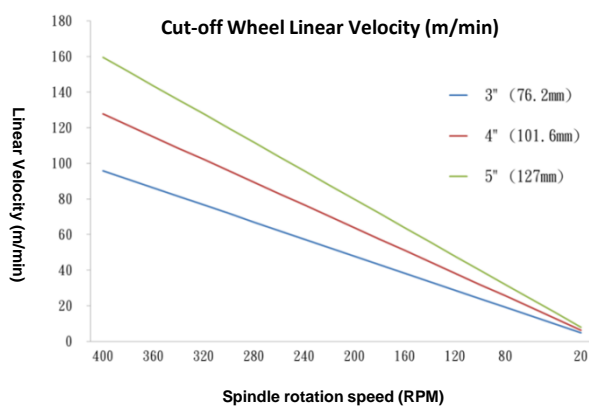
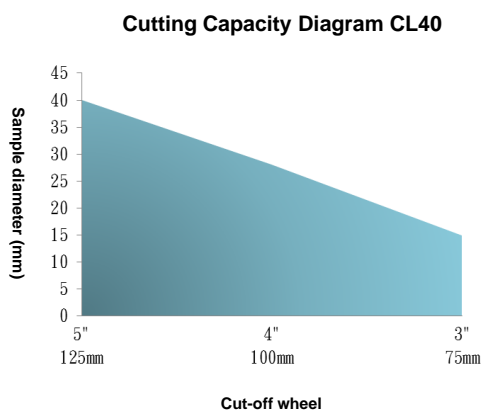
Unit: mm



金相前處理設備
Cutting/ Mouting/ Grinding & Polishing

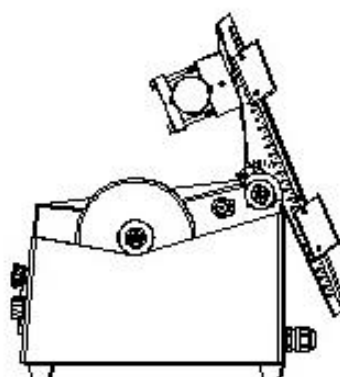
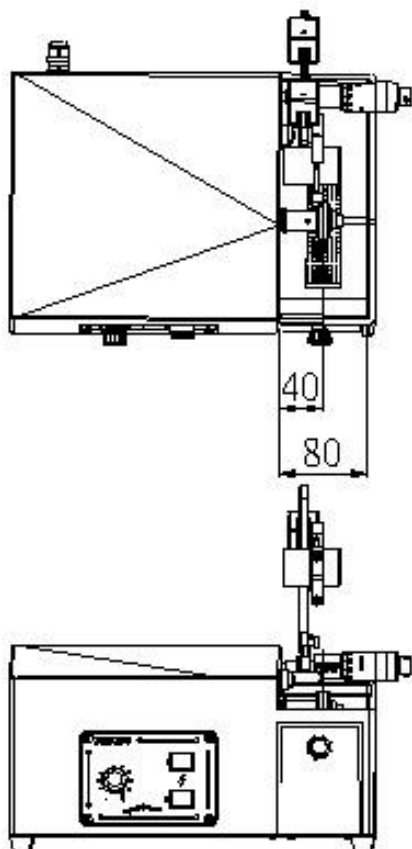
Parameter

Cutting capacity and Cut-off Wheel Linear Velocity



1. The vise of Cutting Capacity Diagram is long type vise kit (standard vise).
2. The parameters are for reference only.

Technical Data



Unit: mm

Consumables (Option)

Diamond Cut-off Wheel Electroplating

- Single layer grain
- Quick and aggressive grinding with max stock removal rates



Order No.	Size	O.D x I.D x T(mm)	Package(pcs/box)
For cutting of glass, ceramics, gem asbestos, alloy, and rubber			
HW21110407	4"	Ø100xØ11.5x1.0	1
HW21110607	5"	Ø125xØ12.7x1.0	1

Diamond Cut-off Wheel Metal Bond

- Best grain with good wear resistance
- Smooth cutting-surface and long life span



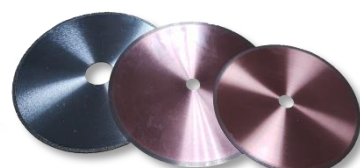
Order No.	Size	O.D x I.D x T(mm)	Package(pcs/box)
For cutting of cement, non-metal material and electronic component			
HW21120502L	4"	Ø100xØ12.7x0.5	1
HW21120602L	5"	Ø125xØ12.7x0.5	1

Diamond Cut-off Wheel Resin Bond

- Flexible cut-off wheel is suitable for cutting brittle specimen



Order No.	Size	O.D x I.D x T(mm)	Package(pcs/box)
For cutting of quartz, glass, non-iron metal, ceramics and silicon wafer			
HW21130502L	4"	Ø100xØ12.7x0.5	1
HW21130602L	5"	Ø125xØ12.7x0.5	1



Consumables (Option)

CBN Cut-off Wheel Electroplating

- Single layer grain
- Quick and aggressive grinding with max stock removal rates



Order No.	Size	O.D x I.D x T(mm)	Package(pcs/box)
For cutting of glass, ceramics, gem asbestos, alloy, and rubber			
HW21210607L	5"	Ø125xØ12.7x1.0	1

CBN Cut-off Wheel Metal Bond

- Best grain with good wear resistance
- Smooth cutting-surface and long life span



Order No.	Size	O.D x I.D x T(mm)	Package(pcs/box)
For cutting of cement, non-metal material and electronic component			
HW21220602L	5"	Ø125xØ12.7x0.5	1

CBN Cut-off Wheel Resin Bond

- Flexible cut-off wheel is suitable for cutting brittle specimen



Order No.	Size	O.D x I.D x T(mm)	Package(pcs/box)
For cutting of quartz, glass, non-iron metal, ceramics and silicon wafer			
HW21230602L	5"	Ø125xØ12.7x0.5	1

Cutting Fluid



Order No.	Cutting Fluid	
S01003	Oily, Transparent (Red Bottle cap)	20L
S01004	Oily, Transparent (Red Bottle cap)	1L

Top Tech distributors



TOP TECH



TOP TECH MACHINES CO.,LTD

No.6-3,Siayuan Rd.,Dali,Taichung,412 Taiwan
TEL: +886-4-2406-3799 FAX:+886-4-2406-0960
E-mail:top@toptech.tw http://www.toptech.tw

Agent

We reserve the right to change design without notice.