

PRECISO-CL Series Precision Diamond Saw



CL50

- Automatic stop cutting protection device
- The gravity feeding system minimizes the deformation of delicate parts
- Horizontal movement micro-adjustment up to 40mm
- Display accuracy 0.01mm
- LCD touch screen displays parameters
- Dressing system for the diamond cut-off wheel



Perfect Surface. Always



Introduction & Feature

- Application range: research & education institution, electronic industry, and manufacturing industry
- Suitable for ceramic, plastic, steel, cooper, iron, PCB boards, glass and carbon fiber composite

Anti-corrosive aluminum alloy body and stainless components

LCD touch screen displays parameters

The cutting parameters can be displayed on the high-definition LCD touch screen, which also features a zeroing function. The display accuracy is as high as 0.01mm.





Dressing System

Properly dressing the cut-off wheel can help extend its lifespan and maintain its sharpness. The dressing system can also be used during cutting.



Automatic stop cutting protection device

The device's flexible adjustment capability based on sample dimensions helps save cutting time.

Counterweight rock arm cutting

Loading pressure can be adjusted according to the sample materials, minimizing the deformation of delicate parts.



Horizontal movement system

The device is equipped with a horizontal movement micro-adjustment system that allows for manual serial cutting with a movement distance up to 40mm.

Spindle speed variation function

An effective spindle rotational speed from 150 to 2000rpm, allowing for adjustment of the suitable speed according to the materials. It is recommended to use a low rotational speed for cutting delicate parts such as glass and ceramic to minimize the risk of damage.

Low noise and low vibration

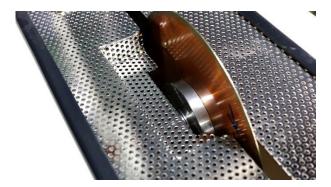
Suitable for use in research and educational institutions as well as laboratory applications.



Introduction & Feature

Drop prevention platform

Easy to remove. It prevent samples from dropping after cutting.



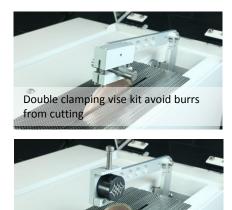
Cutting platform (Option)

The cutting platform is suitable for cutting board-type samples or long-type samples such as glass or PCB boards.



Various Clamps for Choice (Option)

The device is designed with easy-to-replace clamps, allowing for flexibility in operation based on the dimensions, shapes, and features of the samples being cut. Users can choose the appropriate clamps to ensure the accurate cutting of the samples.





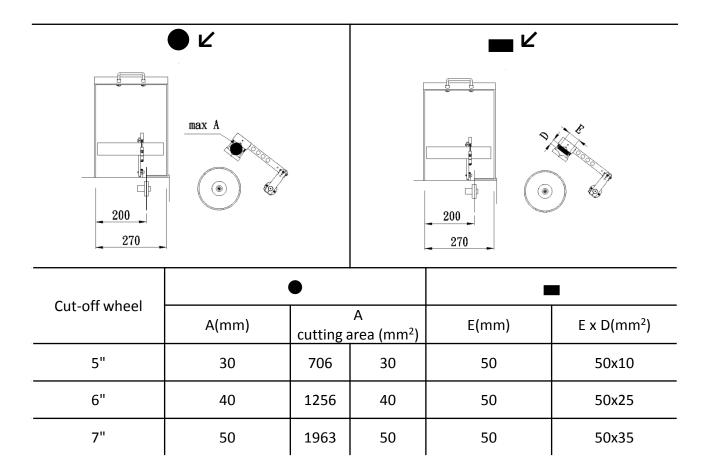








Cutting Capacity of Standard Vise



The measure of square area:

Max width is E, E x D \leq A cutting area

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



CL500508 (Standard vise) Single clamping vise kit (Ø50)



CL500509 Double clamping vise kit (Ø50)



CL500505A Irregular shape vise kit



CL50051001A Round vise kit (Ø32mm)



CL500506 Round and elliptic vise kit



CL500507 Fragile vise kit



Clamping platform (274*550mm)

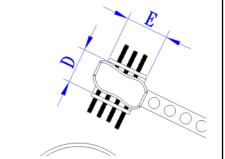


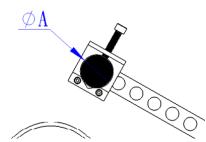
CL500516 Slide clamping device

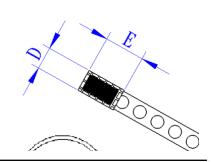


Cutting Capacity of Optional Vise

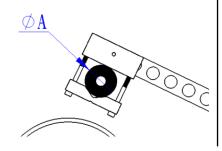
	0505A nape vise kit	CL500506 Round and elliptic vise kit			0507 vise kit
• 🗷	■ ∠	● ∠	■ ∠	● ∠	■ ∠
A (mm)	E x D (mm)	A (mm)	E x D (mm)	A (mm)	E x D (mm)
-	60x50	Max.40	50x35	-	50x28

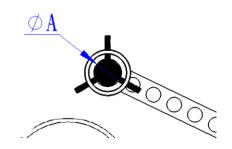






	CL500509 Double clamping vise kit		CL50051001A Round vise kit (Ø32)		51002A e kit (Ø40)
● ∠	■ ∠	● ⊭	■ ∠	●⊭	■ ∠
A (mm)	E x D (mm)	A (mm)	E x D (mm)	A (mm)	E x D (mm)
Max.50	50x35	Max.32	-	Max.40	-

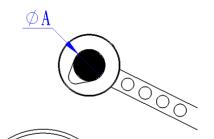


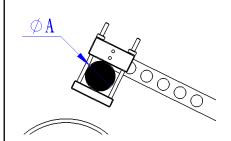




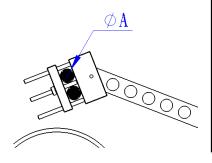
Cutting Capacity of Optional Vise

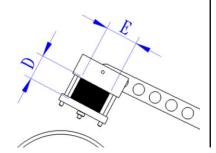
	CL50051101A Teardrop type vise kit		CL50051102A Teardrop type vise kit		0512 use vise kit
• ٢	■ ∠	● ∠	■ ∠	● ∠	■ ∠
A (mm)	E x D (mm)	A (mm)	E x D (mm)	A (mm)	E x D (mm)
5~20	-	18~40	-	Max.40	40x30

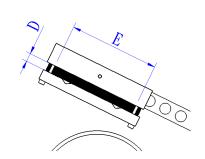




	CL500513 Screw clamping vise kit		CL500514 Double clamping vise kit (Thin section analysis)		0303A amping vise
● ⊭		● ⊭	■ ∠	●∠	■ ∠
A (mm)	E x D (mm)	A (mm)	E x D (mm)	A (mm)	E x D (mm)
Max.18	-	-	45x35x3T	-	130*12









Cutting Capacity of Optional Vise

CL400051A Irregular shape vise kit		CL400052-L Single clamping vise kit (Ø20)		CL400053 Round and 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
CL40	00054A	ØA CL400	0070-D	Ø A	51001A
Fragile	e vise kit	Double clan	nping vise kit	Round	l vise kit
• 🗷	■ ∠	● ⊭		● ∠	
		, ,	[D /mama)	A (mm)	E x D (mm)
A (mm)	E x D (mm)	A (mm)	E x D (mm)	A (IIIIII)	
A (mm)	E x D (mm) 50x28	A (mm) Max. 20	20x30	Max. 32	

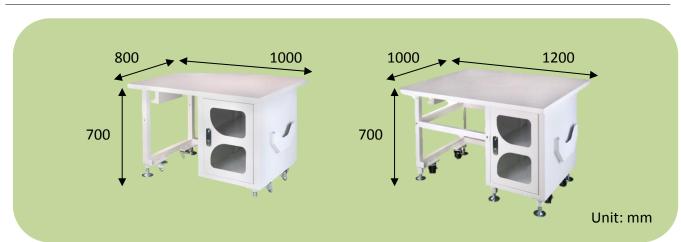


Desk for Metallographic Equipment



 Model No.
 TF01
 TF02

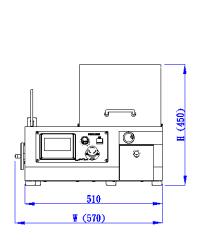
 Dimension(WxDxH)
 1000*800*700 mm
 1200*1000*700 mm

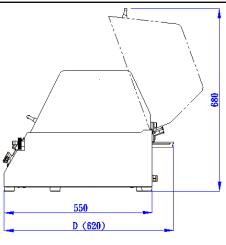




Specification

Model No.	CL50		
Motor Power (w)	400		
Cutting Ability (mm)	Max. Ø50		
Cut-off Wheel	Ø5"~ Ø7" (Ø125mm~Ø175mm)		
Idling Noise Level (dB)	62~68		
Loading Pressure Counterweight 0~700g			
Cutting Method	Rock arm feeding system Automatic stop cutting protection device		
Rotational Speed (rpm)	150~2000 (Rotational speed can be customized)		
Cutting Vise (Standard)	Long type vise kit		
Horizontal Movement (mm)	40		
Coolant Tank Capacity (ml)	1000 (Recirculating in coolant tank)		
Machine Dimension (mm)	570 x 620 x 450		
Machine Weight (kg)	43		
Power Supply	AC 110V/220V 1Ø		
Standard Accessories	coolant 1 L 、standard vise*1(Ø50)		
Cutting Platform WxD (mm)	274 x 550 (Use with Ø7"cut-off wheel)		
Options	Various vise, cutting table, cut-off wheel		





Unit: mm

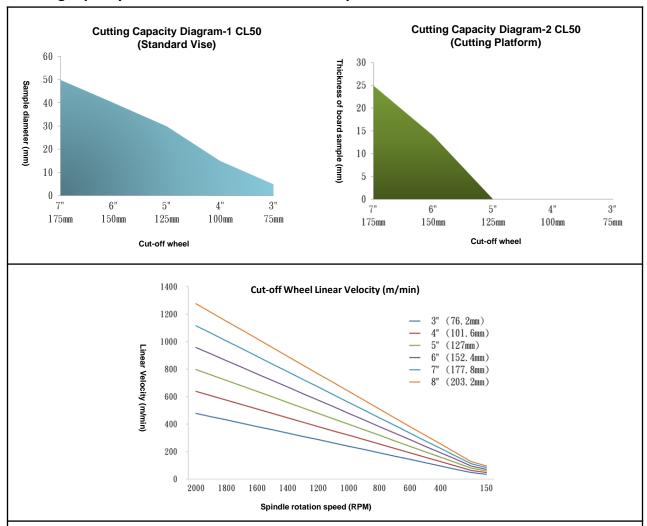






Parameter

Cutting capacity and Cut-off Wheel Linear Velocity



- 1. The vise of Cutting Capacity Diagram-1 is long type vise kit (standard vise) and without drop prevention sheet metal.
- 2. The vise of Cutting Capacity Diagram-2: CL50 is equipped with a cutting platform, and the cover for the cutting platform is opened.

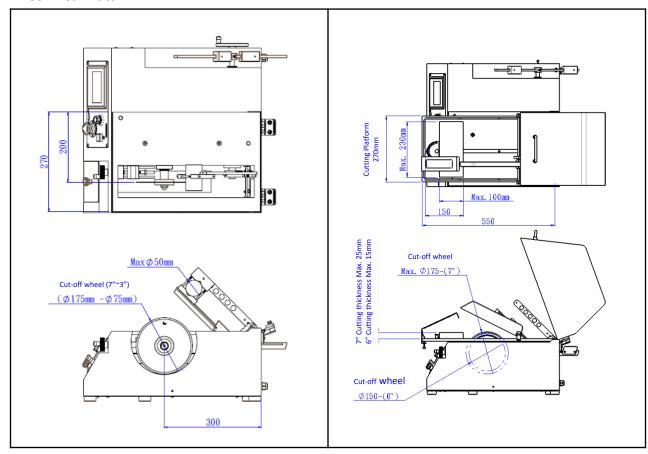


Cutting platform is designed for the cutting of board-type samples.



Parameter

Technical Data







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 cut	ting of glass, ceramics, gem a	sbestos, alloy, and rubber
HW21110607	5"	Ø125xØ12.7x1.0	1
HW21110808	6"	Ø150xØ25.4x1.2	1
HW21111008	7"	Ø175xØ25.4x1.2	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 cu	tting of cement, non-metal m	aterial and electronic
HW21120602L	5″	Ø125xØ12.7x0.5	1
HW21120702L	6"	Ø150xØ12.7x0.5	1
HW21121003L		Ø175xØ25.4x0.6	1

Diamond Cut-off Wheel Resin Bond

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



Order No.	Size	0.0 x 1.0 x 1(mm)	Package(pcs/box)
	or cuttin wafer	g of quartz, glass, non-iron m	netal, ceramics and silicon
HW21130602L	5"	Ø125xØ12.7x0.5	1
HW21130702L	6"	Ø150xØ12.7x0.5	1
HW21131003L	7"	Ø175xØ25.4x0.6	1

* Please contact us for customized specification.



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 cut	tting of glass, ceramics, gem a	sbestos, alloy, and rubber
HW21210607L	5"	Ø125xØ12.7x1.0	1
HW21210808L	6"	Ø150xØ25.4x1.2	1
HW21211008L	7"	Ø175xØ25.4x1.2	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 cu compo	tting of cement, non-metal monent	aterial and electronic
HW21220602L	5″	Ø125xØ12.7x0.5	1
HW21220702L	6"	Ø150xØ12.7x0.5	1
HW21221003L	7"	Ø175xØ25.4x0.6	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 cut wafer	tting of quartz, glass, non-iron	metal, ceramics and silicon
HW21230602L	5"	Ø125xØ12.7x0.5	1
HW21230702L	6"	Ø150xØ12.7x0.5	1
HW21231005L	7"	Ø175xØ25.4x0.8	1

Cutting Fluid



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

Top Tech distributors





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Agent

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