TOP TECH

Perfect Surface. Always

CLM50

7 inch color touch panel with easy programming and intuitive operation with three axis precision cutting, which packed with user friendly function such as zeroing, fast positioning and cutting distance setting. Powerful LED illumination makes the observation more easily and electromagnetic lock provides user a safe environment for operation.

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Feature

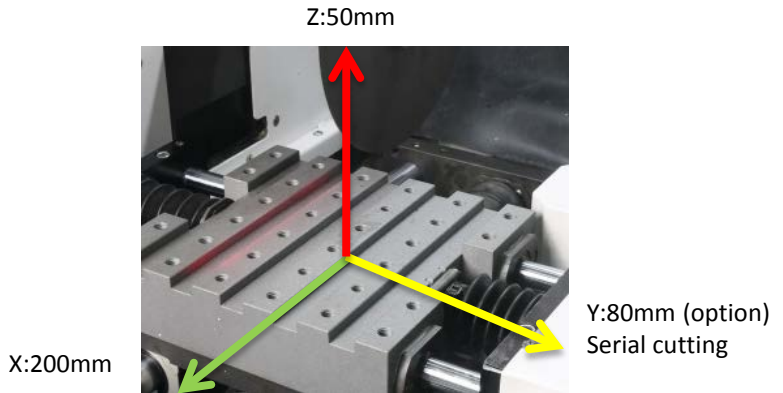### Intuitive touched panel, easy operation

Intuitive touched panel with high recognition graphics makes operation more easily.

Rotational speed

The cut-off wheel speed can be set up to 5000 rpm. This can easily satisfy all kinds of material cutting with precision parameter setting and cut-off wheel of Top Tech.

Z:50mm

X:200mm

Y:80mm (option)
Serial cutting

The longitudinal movement (X-axis) can be set up to 200mm with feeding cutting.

The horizontal movement (Y-axis) can be set up to 80 mm with serial cutting.

The vertical movement (Z-axis) can be set up to 50mm. With the height movement, the consumables can be saved according to the size of cut-off wheel.

Intelligence cut

The feed will adjust automatically to different thickness and hardness materials. When motor is overloaded, the speed will reduce to appropriate value automatically. When the overload of motor reduces, the speed will return to the setting value.

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Method database
A library of 10 different memory methods can be used with different materials and parameters.

| Numbering	Name of cut-off wheel	Rotation speed	Feed rate	Cut-off wheel thickness
0	HW21121207	2000	0.05	1.00
1	HW21111208	2000	0.05	1.20
2	HW21221207	2000	0.05	1.00
3		500	0.01	0.10
4		500	0.01	0.10
5		500	0.01	0.10
6		500	0.01	0.10
7		500	0.01	0.10
8		500	0.01	0.10
9		500	0.01	0.10

Serial cutting
With optional horizontal movement set, slices equal thickness or different thickness is possible. Four slices of different thickness can be set.
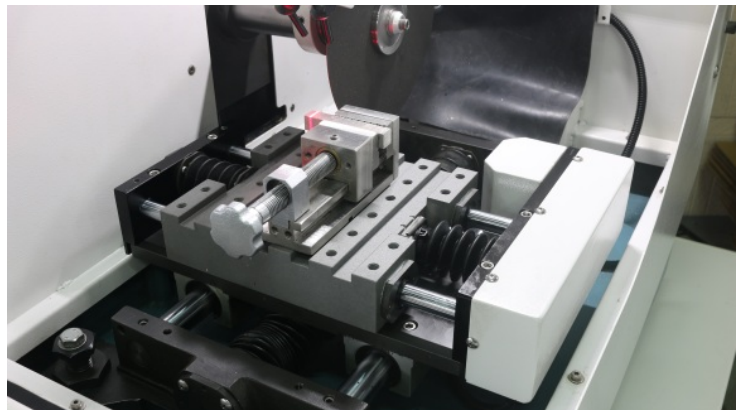

Laser alignment
Machine is equipped with laser alignment. This will help user define the exact position during the operation.
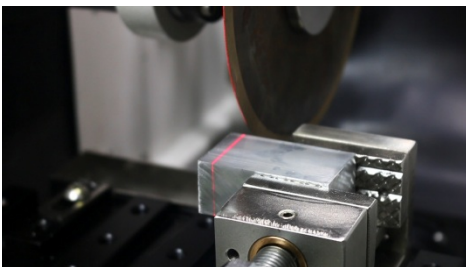
LED
Cutting chamber which is illuminated by powerful LED makes it easy to observe the cutting process.

Option

Cutting platform

T-slot table (accessory)
Dimension:317*210mm

Horizontal movement set (option)
Size:195*180mm

Vise

Quick clamping vise kit

Quick screw vise

Specification:50mm(W)*30mm(H)

Quick vise kit

Fragile vise
Size:50*28mm(W*D)

Teardrop type vise
Size:Ø25mm

Irregular vise
Size:40*25*40mm(W*D*H)

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Diamond blade

Electroplating

Order No.	Size	Dia. x Arbor x Thickness (mm)	Package(pcs/box)
		For cutting of glass, ceramic, gem, asbestos, alloy, and rubber	
HW21110607	5"	Ø125xØ12.7x1.0	1
HW21110808	6"	Ø150xØ25.4x1.2	1
HW21111008	7"	Ø175xØ25.4x1.2	1
HW21111208H	8"	Ø200xØ25.4x1.2	1

Metal bond

Order No.	Size	Dia. x Arbor x Thickness (mm)	Package(pcs/box)
		For cutting of cement, non-metal material, alloy, and electronic material	
HW21120502L	4"	Ø100xØ12.7x0.5	1
HW21120602L	5"	Ø125xØ12.7x0.5	1
HW21120702L	6"	Ø150xØ12.7x0.5	1
HW21121003L	7"	Ø175xØ25.4x0.6	1
HW21121207L	8"	Ø200xØ25.4x1.0	1

Resin bond

Order No.	Size	Dia. x Arbor x Thickness (mm)	Package(pcs/box)
		For cutting of quartz, glass, non-iron metal, ceramic, and silicon wafer	
HW21130502L	4"	Ø100xØ12.7x0.5	1
HW21130602L	5"	Ø125xØ12.7x0.5	1
HW21130702L	6"	Ø150xØ12.7x0.5	1
HW21131003L	7"	Ø175xØ25.4x0.6	1

CBN blade

Electroplating

Order No.	Size	Dia. x Arbor x Thickness (mm)	Package(pcs/box)
		For cutting of high speed steel, alloy steel, tool steel, stainless steel, and magnetic material	
HW21210607L	5"	Ø125xØ12.7x1.0	1
HW21210808L	6"	Ø150xØ25.4x1.2	1
HW21211008L	7"	Ø175xØ25.4x1.2	1

Metal bond

Order No.	Size	Dia. x Arbor x Thickness (mm)	Package(pcs/box)
		For cutting of high speed steel, alloy steel, tool steel, stainless steel, and magnetic material	
HW21220602L	5"	Ø125xØ12.7x0.5	1
HW21220702L	6"	Ø150xØ12.7x0.5	1
HW21221003L	7"	Ø175xØ25.4x0.6	1

Resin bond

Order No.	Size	Dia. x Arbor x Thickness (mm)	Package(pcs/box)
		For cutting of hard steel, ferrous sintering metal, bearing, hard alloy, and forged iron	
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

Desk for metallographic equipment

Model	TF01	TF02
Dimension(W*D*H)	1000*800*700 mm	1200*1000*700 mm
Sample		

Specification

Model	CLM50
Vise travel	200mm
Feeding rate — Manual	0.01～5 mm/sec
Feeding rate — Automatic	0.01～5 mm/sec
Spindle travel	50 mm↑↓
Motor power	1500W
Cutting capacity	Φ50 mm
Cut-off wheel (Dia.xArbor)	φ3"～ φ8" (φ12.7 or φ25.4)
Flange(Dia)	φ40 & φ60 & φ80
Cutting mode	Home point return after cutting
Overload protection	Automatic deceleration when overload
Rotational speed	500～5000 RPM
Coolant capacity	External：50L
Dimension WxDxH (mm)	850x850x600 mm
Weight (kg)	166 Kg

Parameter

Cutting Capacity
T-slot table

■ CLM50A φ50

Sample Dim. (mm) vs Cut-off wheel capacity (8", 7", 6", 5", 4", 3")

Cutting Capacity
Horizontal movement set

■ CLM50A φ50

Sample Dim. (mm) vs Cut-off wheel capacity (8", 7", 6", 5", 4", 3")

Cut-off wheel linear velocity (m/min)

Linear Velocity (m/min) vs Cut-off wheel capacity (RPM)

- 3" (76.2mm)
- 4" (101.6mm)
- 5" (127mm)
- 6" (152.4mm)
- 7" (177.8mm)
- 8" (203.2mm)
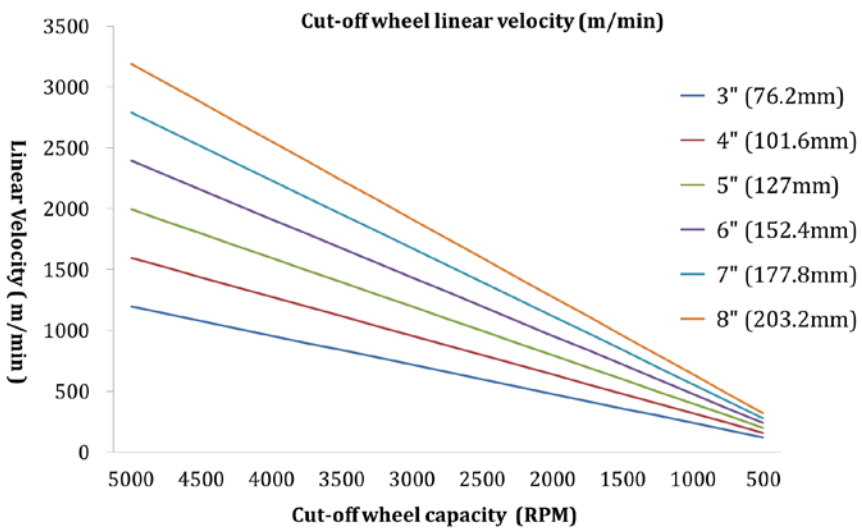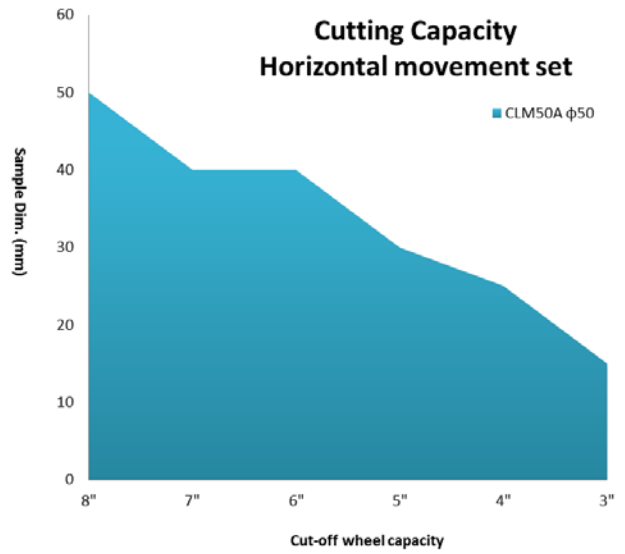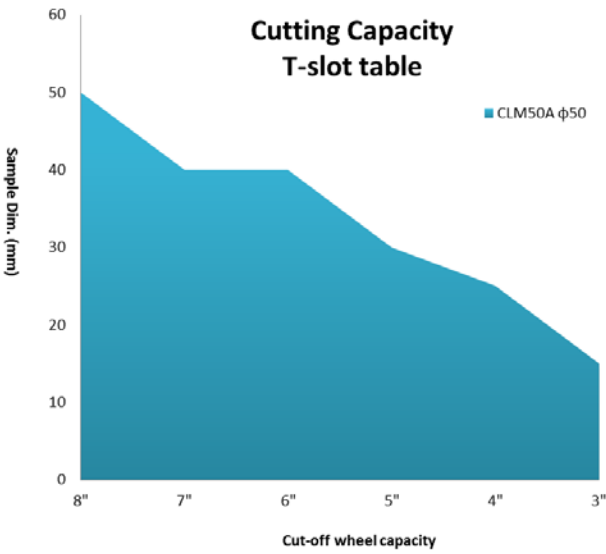
1.Parameter for reference only.
2.Practical parameter depends on wheel, sample material, cutting speed, vise, etc.

Top Tech worldwide distributors

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