

# MagVise Clamping System

The New Domain for Metal Working on Clamping

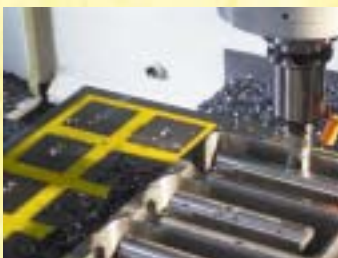
Suitable for milling machine and CNC horizontal & vertical machining center.  
(5 sides machining)

## Permanent Magnetic Clamping Block ECB Series



Suitable for medium & large workpiece

## Electro-Permanent Magnetic Block EPPM Series



Suitable for medium & small workpiece



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**BUILT FOR SPEED**

**Power that works.**  
magnetic products

# Permanent Magnetic Clamping Block **ECB Series** Suitable for medium & large workpiece (Can do 5 sides machining)



## Standard Accessories:

- Handle ----- 1set
- Induction soft block ----- 1set
- Stopping plate ----- 1set
- Guide key ----- 2pcs
- Switch connector ----- 1set  
(For ECB-CB only)

handle



Induction soft block



Stopping plate



Guide key



Switch connector



ECB-CA with switch connector    ECB-CB without switch connector



"ON"

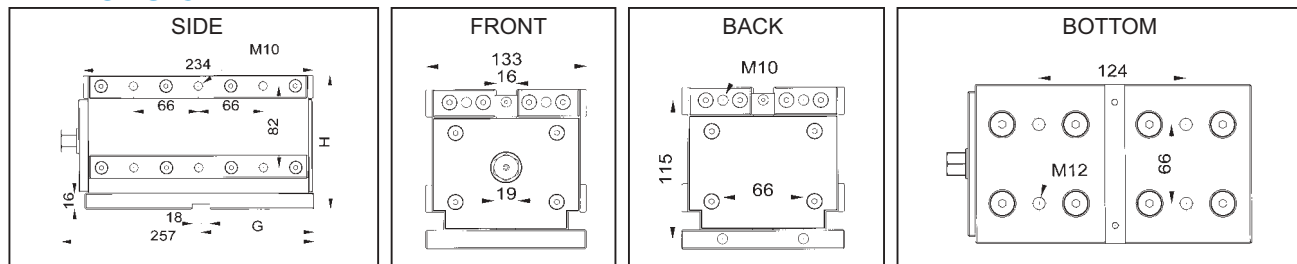


"OFF"

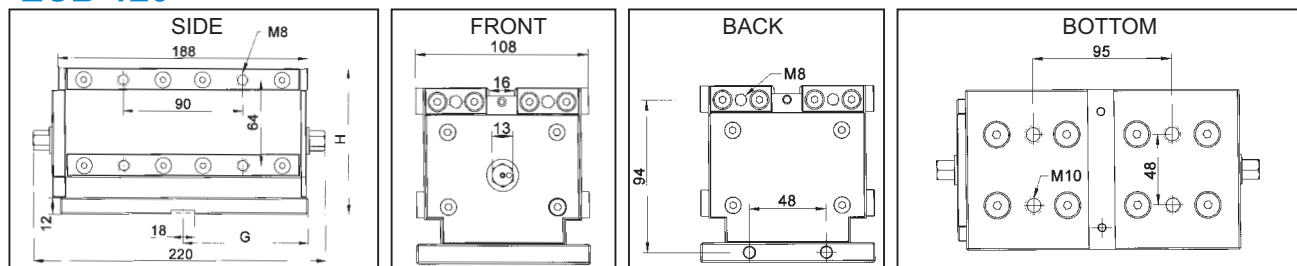
Model No.	Holding Power	Minimum Thickness of Workpiece Required	G	$G = \begin{smallmatrix} +0 \\ -0.03 \end{smallmatrix}$	H	$H = \begin{smallmatrix} +0.01 \\ -0.01 \end{smallmatrix}$	Remark	N.W.
ECB-210CA	2100kgf	Thickness 20mm	115	Accuracy control required	134	Accuracy control required	-----	36kg
ECB-210CB	2100kgf						with connecting switch	
ECB-120CA	1200kgf	Thickness 15mm	94.5	Accuracy control required	108	Accuracy control required	-----	18kg
ECB-120CB	1200kgf						with connecting switch	
ECB-075CA	750kgf	Thickness 10mm	88	Accuracy control required	78	Accuracy control required	-----	9.5kg
ECB-075CB	750kgf						with connecting switch	
ECB-050CA	500kgf	Thickness 10mm	61	Accuracy control required	78	Accuracy control required	-----	7kg
ECB-050CB	500kgf						with connecting switch	

# Permanent Magnetic Clamping Block **ECB Series** Suitable for medium & large workpiece (Can do 5 sides machining)

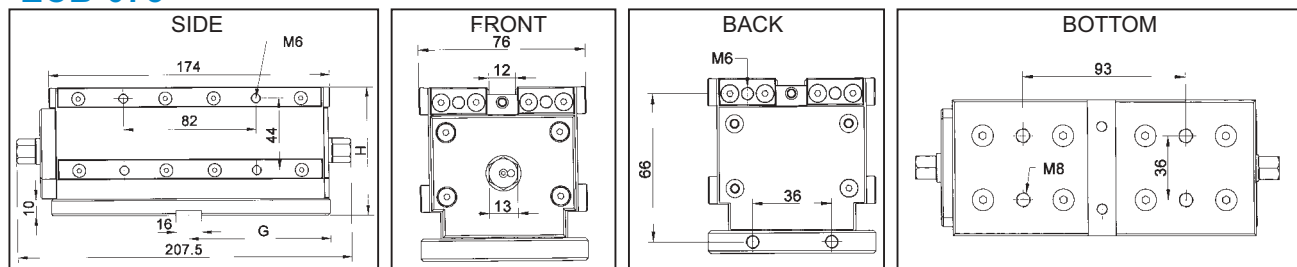
## Dimension ECB-210



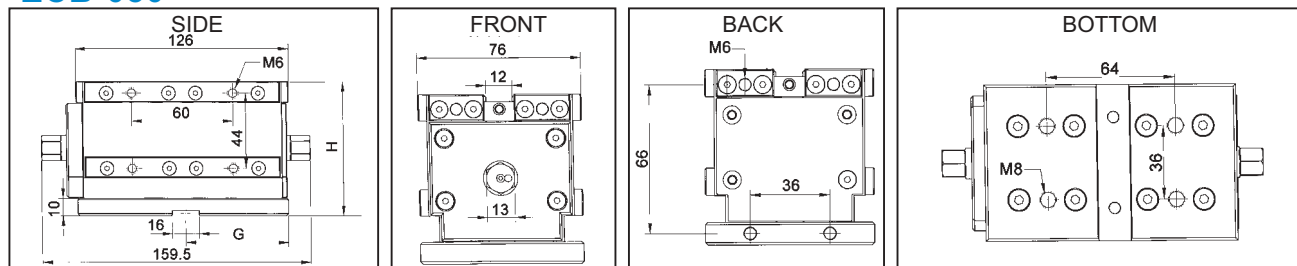
## ECB-120



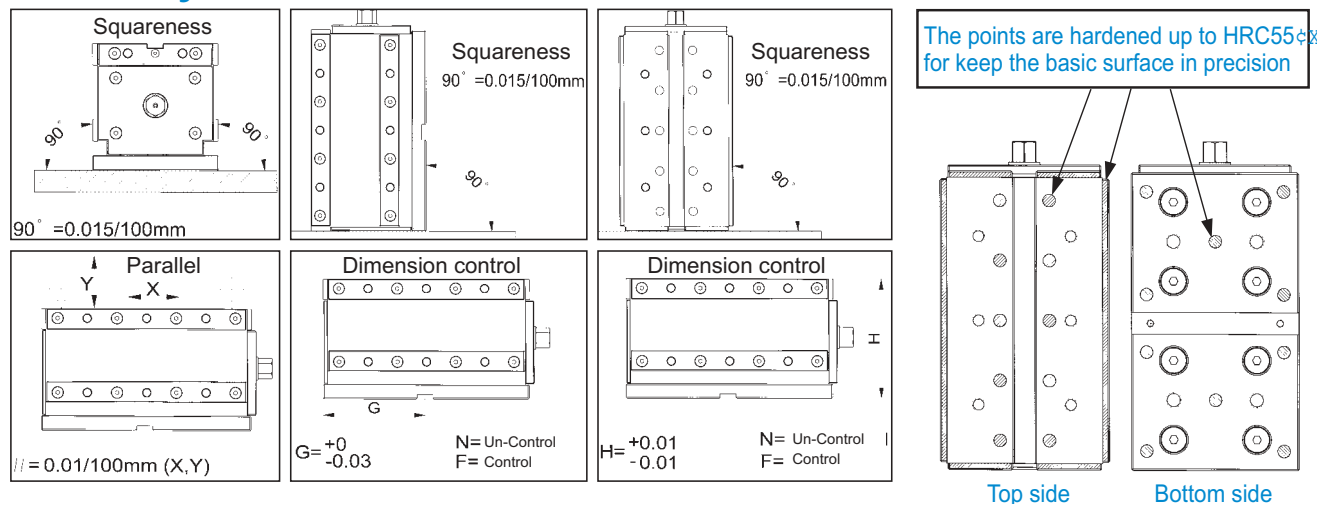
## ECB-075



## ECB-050

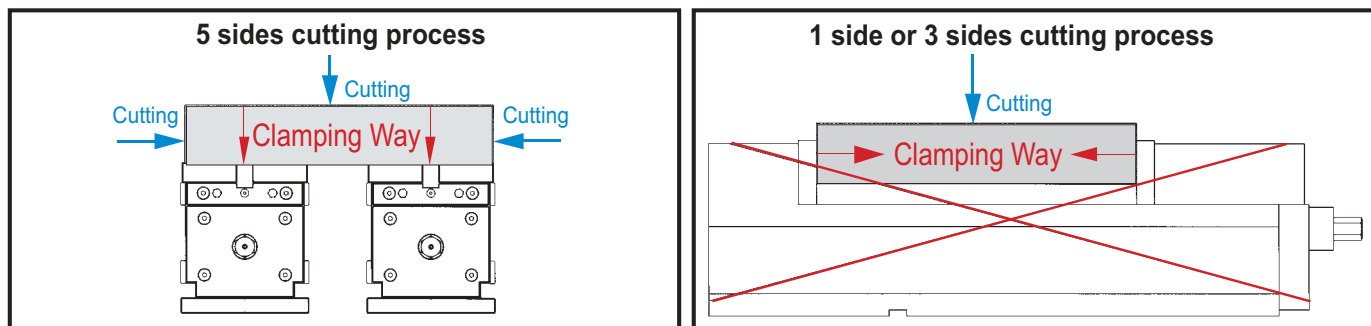


## Accuracy Control





## Permanent Magnetic Clamping Block **ECB Series** Suitable for medium & large workpiece (Can do 5 sides machining)



### Feature:

- 1.The all new model “Magnetic Clamping Block” **ECB Series** are a new sense of clamping way for metal working on CNC Machining Center and Milling Machine in quick clamp workpieces.
- 2.Free to set up position, numbers and distance of “Magnetic Clamping Block” according to the size of workpiece.
- 3.The **ECB Series** including changeable “Induction Soft Block”. It can be revised the surface to be 100% accuracy on the machine for clamp workpieces. Can be also cutting, drilling, tapping and slotting directly to the “Induction Soft Block” during machining workpiece. Multi-function of “Induction Soft Block”, the user can make it by themselves according to workpiece required.
- 4.Two machining circle for finish workpiece machining, increase a lot of machining efficiency and achieve accuracy required.

### Application:

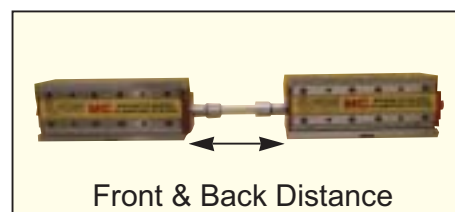
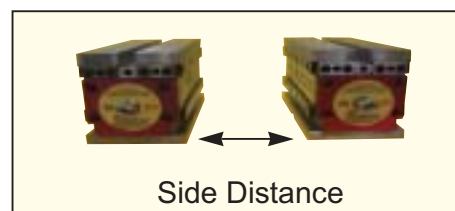
- 1.Most suitable for medium and large size of workpiece machining on milling machine and CNC machining center.
- 2.Minimum size of workpiece required as bigger than an area of two “Magnetic Clamping Blocks”.
- 3.The “Magnetic Clamping Blocks” are not suitable for small workpiece clamping.

### Note:

- 1.Please always make sure the “Switch” was in “ON” position before machining.
- 2.The “Magnetic Clamping Blocks” are not suitable for non-magnetic material, such as brass, copper, aluminum and stainless steel, etc.
- 3.The principle of “Magnetic Clamping Blocks” is magnetism of N. S. poles, so please always put the workpiece between N. S. poles. ( The middle of top clamping range)

### **ECB Series** Maximum & Minimum distance required

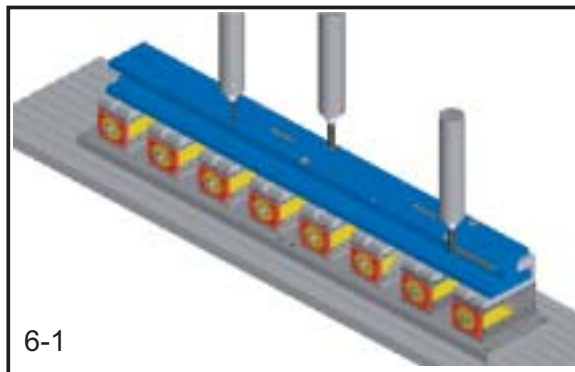
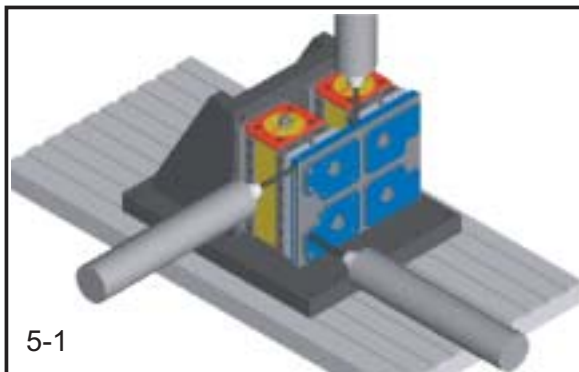
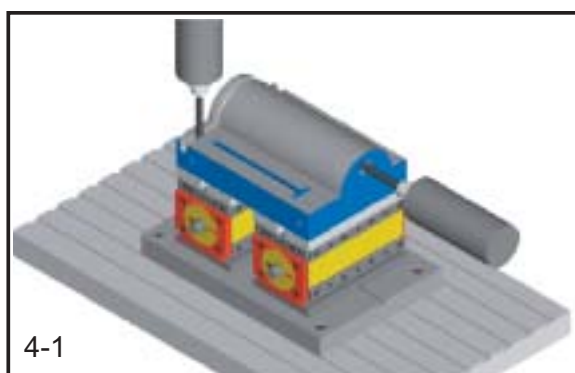
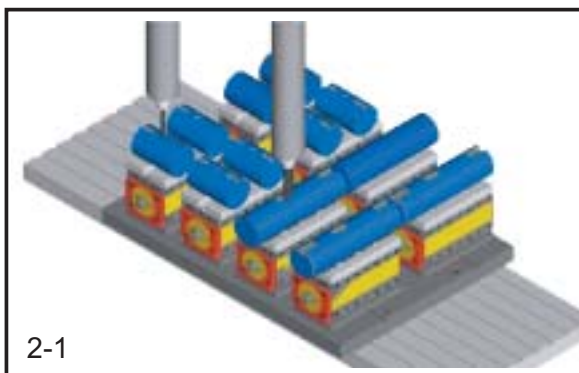
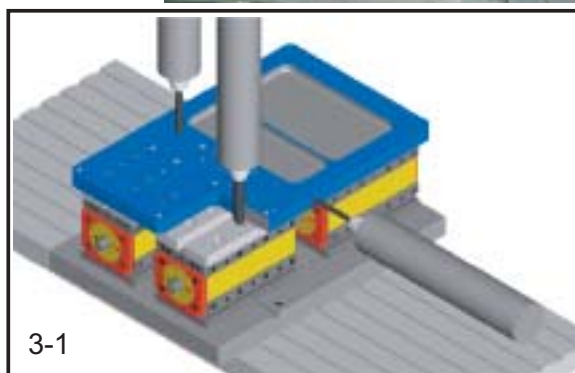
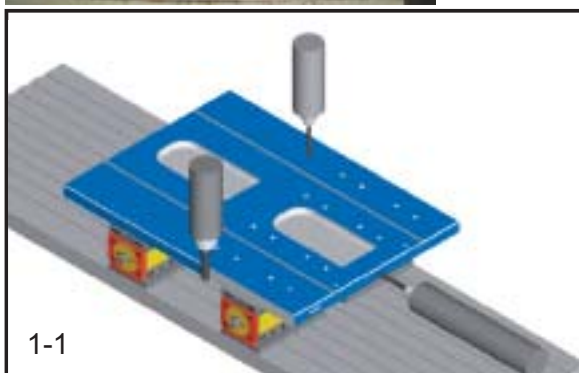
MODEL NO.		ECB-210	ECB-120	ECB-075	ECB-050
SIDE DISTANCE	Minimum	100mm	60mm	25mm	25mm
	Maximum	1000mm	600mm	400mm	400mm
FRONT & BACK DISTANCE	Minimum	70mm	40mm	40mm	40mm
	Maximum	180mm	140mm	140mm	140mm
		STANDARD SWITCH CONNECTOR			
		500mm	300mm	200mm	200mm
		SPECIAL MADE SWITCH CONNECTOR			
Minimum Thickness of Workpiece Required		20mm	15mm	10mm	10mm



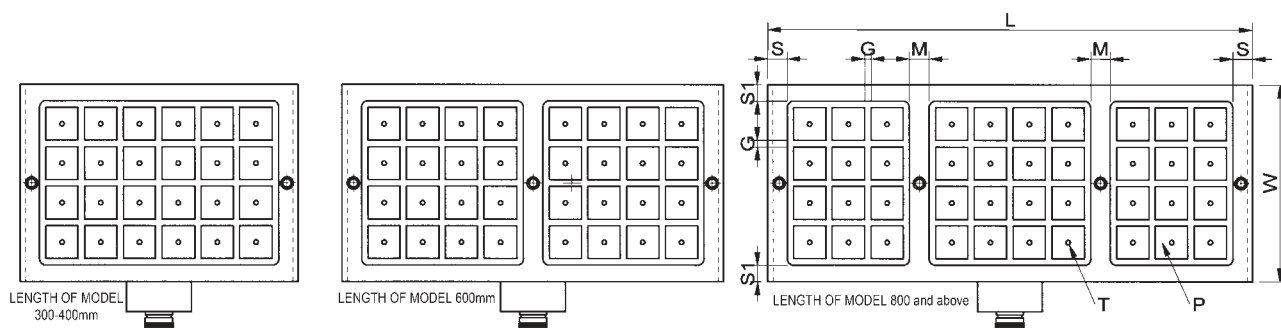
# Permanent Magnetic Clamping Block **ECB Series** Suitable for medium & large workpiece (Can do 5 sides machining)



Working Example



# Permanent Magnetic Clamping Block **EEPM Series** Suitable for medium & small workpiece (Can do 5 sides machining)



MODEL NO.	DIMENSION							PITCH G	POLE P	NO.OF POLE	VOLTAGE	CURRENT AMP	CHUCK N.W.	CONTROLLER N.W.
	W	L	S	S1	M	T	HEIGHT							
EEPM-2540W	240	430			--					18		18	42	10
EEPM-2560W	240	590			30					24		24	63	
EEPM-2580W	240	750			30					30		30	84	
EEPM-2590W	240	870			30					36		36	94	
EEPM-25100W	240	990			30					42		40	105	
EEPM-3030W	300	310			--					16		16	38	
EEPM-3040W	300	430			--					24		24	51	
EEPM-3060W	300	590			30					32		28	76	
EEPM-3080W	300	750			30					40		32	102	
EEPM-3090W	300	870			30					48		40	115	
EEPM-30100W	300	990			30					56		40	127	15
EEPM-4040W	420	430			--					36		18	68	
EEPM-4050W	430	480	30	25	--	M8	70	10	50x50	42	AC	26	84	
EEPM-4060W	420	590			30					48	220V	24	102	
EEPM-4080W	420	750			30					60		30	135	
EEPM-4090W	420	870			30					72		36	152	
EEPM-40100W	420	990			30					84		40	168	
EEPM-5060W	480	590			30					56		28	126	
EEPM-5080W	480	750			30					70		35	168	
EEPM-5090W	480	870			30					84		40	189	
EEPM-50100W	480	990			30					98		50	210	15
EEPM-6060W	600	590			30					72		36	152	
EEPM-6080W	600	750			30					90		40	203	
EEPM-6090W	600	870			30					108		45	227	
EEPM-60100W	600	990			30					126		50	252	
EEPM-8080W	750	780			30					120		45	268	



## Permanent Magnetic Clamping Block **EEPM Series** Suitable for medium & small workpiece (Can do 5 sides machining)

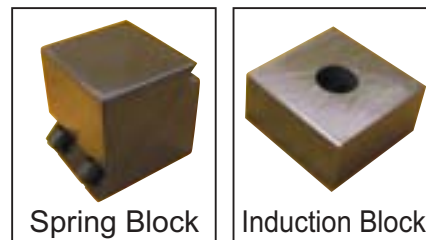
### Feature:

1. Super power magnetic force 1000KG/100cm<sup>2</sup>.
2. 2 seconds control for power On & OFF. No electric power supply required to keep the magnetic chuck ON. Safety in case of power failure.
3. Owing no power supply to keep the magnetic chuck ON, it could be used for long time and never get temperature to affect the accuracy of workpieces.
4. Can do 5 sides machining, un-obstructed movement of cutters during machining. One cycle to finish a workpiece, helps in achieving best machining accuracy and increases efficiency a lot.
5. Easy and convenient to clamp a workpiece, shortens clamping time.

### Application:

1. Most suitable for heavy duty machining on medium & small or even rough workpieces.
2. Suitable for drilling and fine machining on small workpieces.
3. Minimum size of workpiece required as 4 alternate magnetic square poles contacts is necessary for optimum clamping.
4. Minimum thickness of workpiece required: 10mm.
5. Easily integrated with Pallet Change of Horizontal Machining Center and FMS System.

### OPTIONAL ACCESSORIES

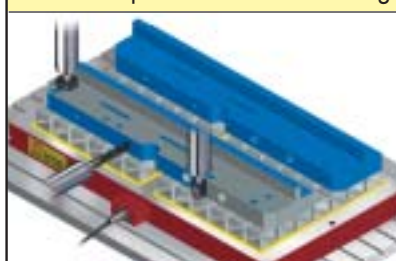


※ With more functions if use induction soft block.

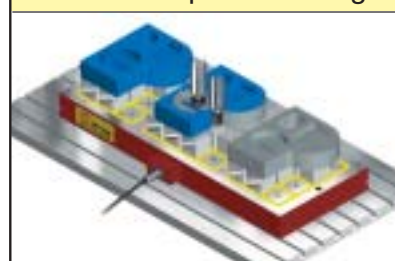
5 sides machining



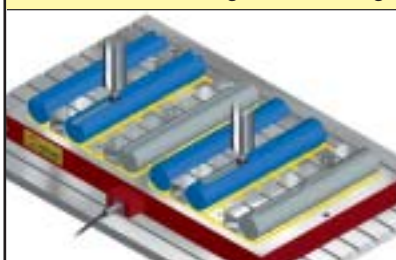
Multi-workpiece 5 sides machining



Multi-workpiece forming



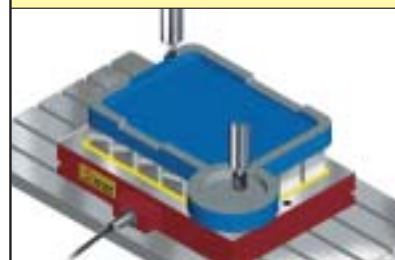
Round steel slotting & machining



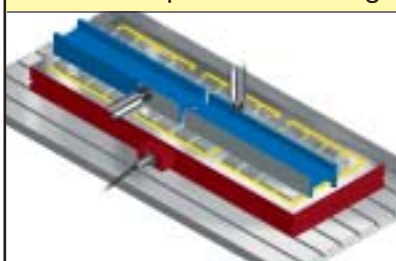
Mould 3D forming



Casting iron forming & machining



Multi-workpiece machining



Forming & Machining on "Pallet Change"

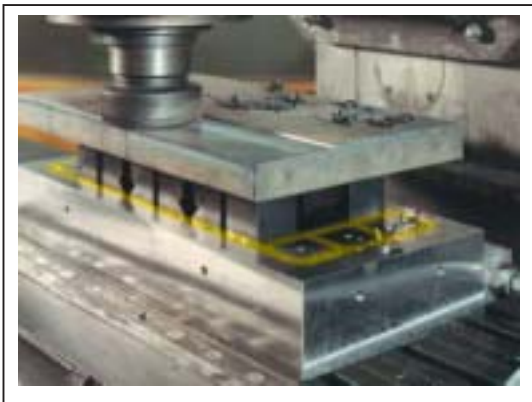
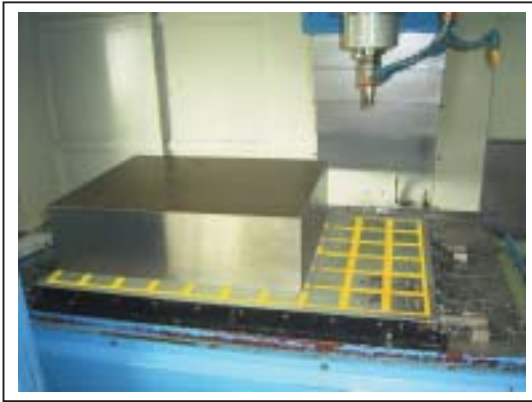


Surface machining



# Permanent Magnetic Clamping Block **EEPM Series** Suitable for medium & small workpiece (Can do 5 sides machining)

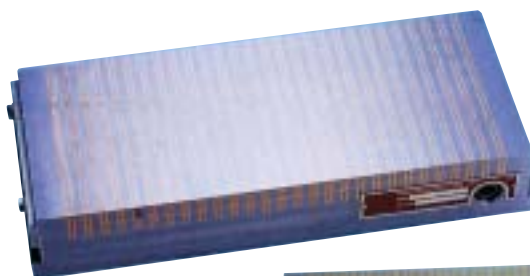
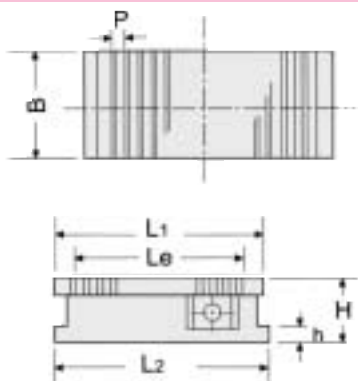
## Working Example





# Machining Type Permanent Magnetic Chuck **EHMT Series**

Suitable for thin & small workpiece



## Feature:

1. It will never change the accuracy of working surface during switch ON and OFF.
2. With perfect water proof, can be used in liquid.
3. EHM-3060 and above are dual switch.

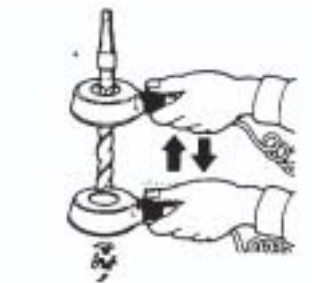
## Application:

1. Most suitable for thin and small workpiece machining.
2. Most suitable for high speed machining center and carven machine.

Model	Dimension	Top Plate			Pole Pitch P	Bottom Plate		Height H	Weight (kg)
		B	L <sub>1</sub>	L <sub>e</sub>		L <sub>2</sub>	h		
EHMT - 1018B	100 x 175	100	175	128	11.2 (1.6+2+1.6+6)	195	13	65	8
EHMT - 1030B	100 x 300		300	246		320			13
EHMT - 1325B	125 x 250	125	250	196		270			14
EHMT - 1515B	150 x 150	150	150	106		170			10
EHMT - 1530B	150 x 300		300	246		320			19
EHMT - 1535B	150 x 350		350	296		370			22
EHMT - 1540B	150 x 400		400	346		420			26
EHMT - 1545B	150 x 450		450	396		470			29
EHMT - 2020B	200 x 200	200	200	150		220			17
EHMT - 2030B	200 x 300		300	246		320			26
EHMT - 2040B	200 x 400		400	346		420			34
EHMT - 2550B	250 x 500		450	390		470			38
EHMT - 2050B	200 x 500		500	446		520			43
EHMT - 2060B	200 x 600		600	446		620			51
EHMT - 2525B	250 x 250	250	250	196		270			27
EHMT - 2530B	250 x 300		300	246		320			32
EHMT - 2540B	250 x 400		400	346		420			43
EHMT - 2250B	250 x 500		500	446		520			53
EHMT - 3030B	300 x 300	300	300	246		320			44
EHMT - 3040B	300 x 400		400	346		420			59
EHMT - 3050B	300 x 500		500	446		520			74
EHMT - 3060B	300 x 600		600	543		620			88
EHMT - 3090B	300 x 900		900	834		920			132
EHMT - 4040B	400 x 400	400	400	346		420		75	79
EHMT - 4050B	400 x 500		500	446		520			98
EHMT - 4060B	400 x 600		600	543		620			117
EHMT - 4080B	400 x 800		800	733		820			156
EHMT - 40100B	400 x 1000		1000	935		1020			195

CUTTING TOOL DEMAGNETIZER

HDO-40

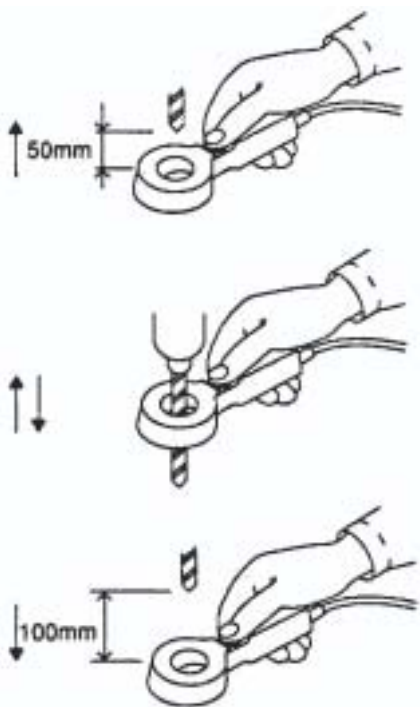


- Features:

1.Handle type, easy and convenient to operate.

2.Suitable for demagnetized cutting tools such as drill, tap, end mill and rod material...etc.

3.Can be demagnetized the cutting tool on machine directly.



Model No.	Power Source	Current	Duty Circle	Demagnetizing Range	Net Weight
HDO-40	110V / 220V	80W	20%	Ø40mm	0.9 kg

## ELM Series Lifting Magnet



EXAMPLE IN USE



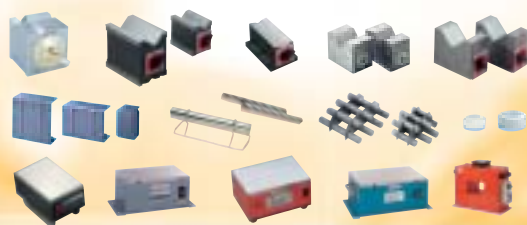
Convenience and efficiency for makes more profit.



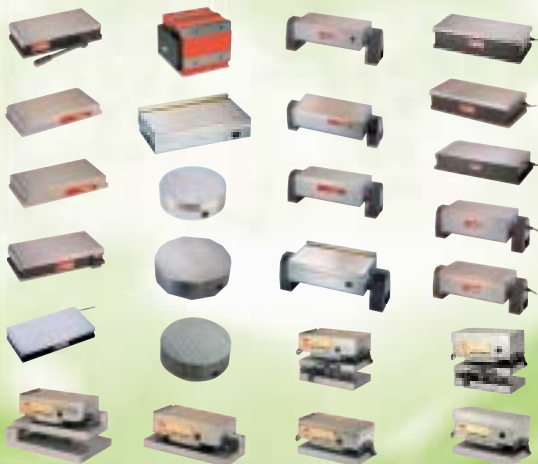
## Magnetic Base Series



## Magnetic Blocks & Demagnetizers Series



## Magnetic Chucks & Blocks Series



## 電動與氣動工具

## Electric & Pneumatic Tools For mold and die making



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FINISH 成品





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**BUILT FOR SPEED**

**EARTH-CHAIN ENTERPRISE Co., Ltd.**

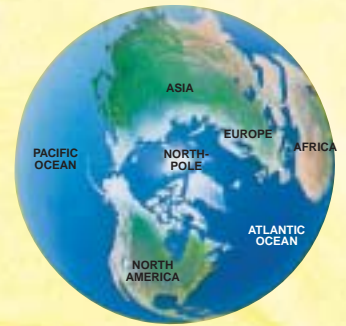
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