



ELECTRO-PERMANENT MAGNETIC CHUCK

ECMC- A, B, C, D Series



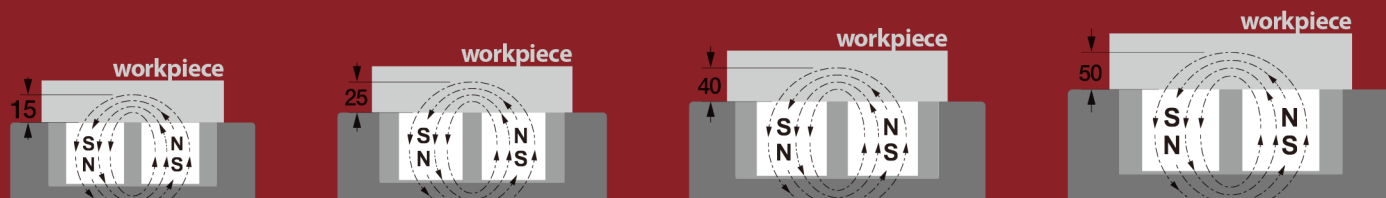
Features:

1. Electro-Permanent Magnetic Chuck structure design, use the natures of different permanent magnetic materials, through electronic control system control and convert the distribution of internal magnetic circuit, magnetize the magnetic disk (i.e. in tight clamping state), and demagnetize (i.e. in loose state).
2. Magnetization and demagnetization time is only 3~12 seconds. After completion, it does not need to continuously supply power to produce safe and strong magnetic force. It does not have the problem with temperature rise. It can last for a long time. The maintenance is easy. It is both economic and environment friendly.
3. Shorten workpiece installation time, fast mold change, save work time, increase productivity.
4. Strong and stable magnetic force, assure tight fastening of workpiece, high processing precision.

Use and Applicable Areas:

1. General cutting and processing for all kinds of iron parts, rapid mold change, suitable for CNC vertical computer milling machine and horizontal computer milling machine, general milling machine precision machining; the Electro-Permanent Magnetic Chuck is highly mobile, suitable for any machine.
2. Workpiece thickness requirement
ECMC-A Series: above 15mm
ECMC-B Series: above 25mm
ECMC-C Series: above 40mm
ECMC-D Series: above 50mm
3. As workpiece is clamped, strongest magnetic force is achieved when the contact is from more than 4 magnetic poles.
4. Magnetic pole dimensions 50 x 50mm, suitable for general cutting and processing for small and medium workpiece.
5. Magnetic pole dimensions 70 x 70mm, suitable for general cutting and processing for medium and large workpiece.
6. Work with various magnetic soft jaws and moveable spring pads, flexible adjustment and configuration according to processing needs.

Magnetic Amplitude & Workpiece Thickness



ECMC- A Series

Magnetic Pole: 35x35mm
Magnetic amplitude 15mm
Suitable for small workpiece

ECMC- B Series

Magnetic Pole: 50x50mm
Magnetic amplitude 25mm
Suitable for medium workpiece

ECMC- C Series

Magnetic Pole: 70x70mm
Magnetic amplitude 40mm
Suitable for medium to large workpiece

ECMC- D Series

Magnetic Pole: 91x91mm
Magnetic amplitude 50mm
Suitable for large workpiece

ECMC-CONTROLLER

for Electro-Permanent Magnetic Chuck
Electro-Permanent Magnetic Column
Electro-Permanent Magnetic Index Table



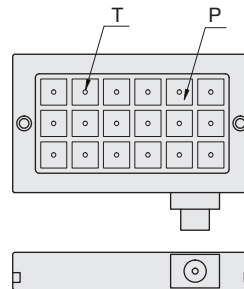
SPECIFICATIONS

Unit: mm

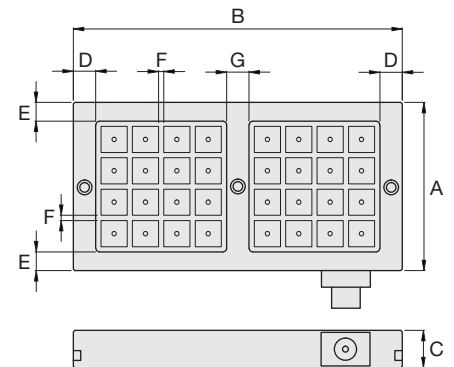
Model	VOLTAGE (Single Phase)	Dimensions			Weight (kg)
		W	L	H	
1N1C	AC 220V/AC380V ~ 440V	192	280	130	4.1
1N2C					4.1
1N3C					4.1
1N4C					4.1

ECMC-A Series

Pole Size: 35x35mm



Model length 320mm



Model length above 440mm

SPECIFICATIONS POLE SIZE:35x35mm, MAGNETIC FORCE: 580 ± 5% kgf/49cm² (4 POLES)

Unit: mm

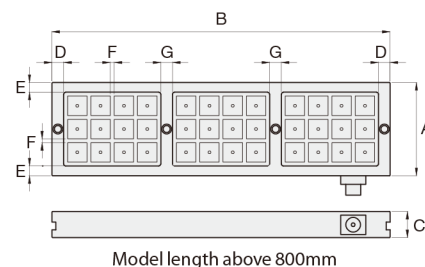
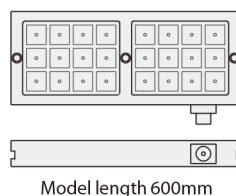
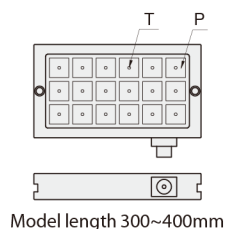
Model - A	A	B	C	D	E	F	G	POLE P	NO. OF POLE	T	Net weight (KG)	Voltage (Single phase)	Controller (Included)
ECMC-1530	185	320	52	30.5	26	7	-	35X35	18	M6	23	AC 220V ~ 440V	1N1C
ECMC-2340	225	440		30	25		30		32		39		1N1C
ECMC-2560	225	610		31	25		30		48		54		1N2C
ECMC-3131	310	320		30.5	25.5		-		36		39		1N1C
ECMC-3140	310	440		30	25.5		30		48		53		1N2C
ECMC-3160	310	610		31	25.5		30		72		74		1N2C
ECMC-4344	435	440		30	25		30		72		75		1N2C
ECMC-4350	435	525		30.5	25		30		90		90		1N4C
ECMC-4359	435	610		31	25		30		108		104		1N4C

We Accept Order for customized specifications.



ECMC-B Series

Pole Size: 50x50mm



SPECIFICATIONS POLE SIZE: 50x50mm, MAGNETIC FORCE: 1250±5% kgf/100cm² (4 POLES)

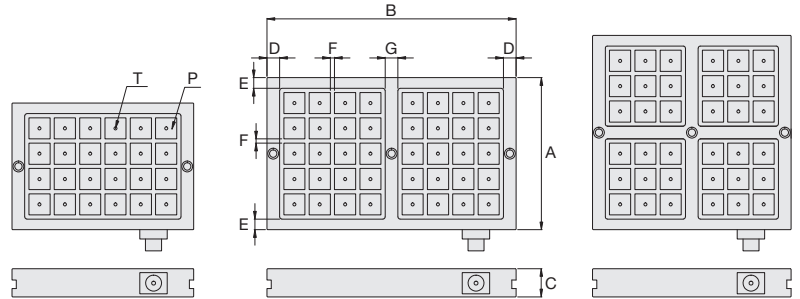
Unit: mm

MODEL - B	A	B	C	D	E	F	G	POLE P	NO. OF POLE	T	N.W. (KG)	Voltage (Single phase)	Controller (Included)	Voltage (Single phase)	Controller (Included)
ECMC-1919	180	180	62	25	30	25	-	50X50	4	M8	16	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2525	240	250	62				-		9		29		1N1C		1N1C
ECMC-2531	240	310	62				-		12		36		1N1C		1N1C
ECMC-2543	240	430	62				-		18		52		1N1C		1N1C
ECMC-2550	240	490	62				-		21		57		1N1C		1N1C
ECMC-2559	240	590	62				30		24		71		1N1C		1N1C
ECMC-2582	240	810	62				30		33		95		1N2C		1N1C
ECMC-2587	240	870	62				30		36		101		1N2C		1N1C
ECMC-2599	240	990	62				30		42		115		1N2C		1N2C
ECMC-3031	300	310	62				-		16		46		1N1C		1N1C
ECMC-3043	300	430	62				-		24		63		1N1C		1N1C
ECMC-3059	300	590	62				30		32		85		1N1C		1N1C
ECMC-3082	300	810	62				30		44		120		1N2C		1N2C
ECMC-3087	300	870	62				30		48		127		1N2C		1N2C
ECMC-3099	300	990	62				30		56		143		1N2C		1N2C
ECMC-4343	420	430	62				-		36		87		1N2C		1N1C
ECMC-4349	420	490	62				-		42		102		1N2C		1N2C
ECMC-4359	420	590	62				30		48		120		1N2C		1N2C
ECMC-4382	420	810	62				30		66		164		1N3C		1N2C
ECMC-4387	420	870	62				30		72		175		1N3C		1N2C
ECMC-4399	420	990	62				30		84		200		1N3C		1N3C
ECMC-4959	480	590	62				30		56		131		1N2C		1N2C
ECMC-4982	480	810	66				30		77		206		1N3C		1N3C
ECMC-4987	480	870	66				30		84		219		1N3C		1N3C
ECMC-4999	480	990	66				30		98		245		1N4C		1N3C
ECMC-5959	600	590	66				30		72		184		1N3C		1N2C
ECMC-6082	600	810	66				30		99		242		1N4C		1N3C
ECMC-6087	600	870	66				30		108		269		1N4C		1N3C
ECMC-5999	600	990	66				30		126		307		1N4C		1N4C
ECMC-7582	750	810	66		40		30		121		305		1N4C		1N4C



ECMC-C Series

Pole Size: 70x70mm



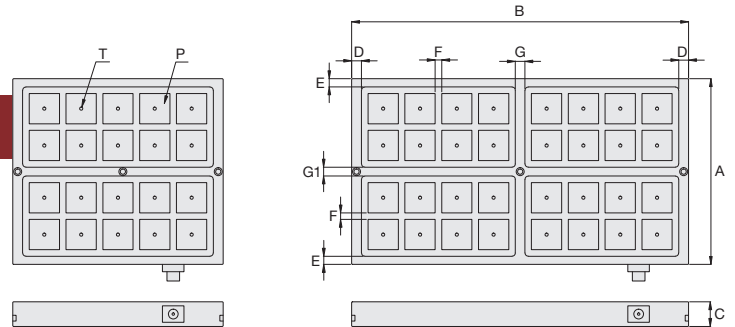
SPECIFICATIONS POLE SIZE: 70x70mm, MAGNETIC FORCE: $2800 \pm 5\%$ kgf/196cm² (4 POLES)

Unit: mm

MODEL - C	A	B	C	D	E	F	G	POLE P	NO. OF POLE	T	N.W. (KG)	Voltage (Single phase)	Controller (Included)	Voltage (Single phase)	Controller (Included)
ECMC-34677	340	670	70	30	25	20	30	70X70	18	M10	126	AC 220V	1N2C	AC 380V ~ 440V	1N1C
ECMC-4353C	430	530	70				-		20		126		1N2C		1N1C
ECMC-43677	430	670	70				30		24		159		1N2C		1N1C
ECMC-43857	430	850	70				30		32		202		1N4C		1N2C
ECMC-52678	520	670	80				30		30		220		1N2C		1N2C
ECMC-52858	520	850	80				30		40		279		1N4C		1N2C
ECMC-66678	660	670	80				30		36		280		1N4C		1N2C
ECMC-66858	660	850	80				30		48		354		1N4C		1N2C
ECMC-84858	840	850	80				30		64		451		1N8C		1N4C

ECMC- D Series

Pole Size: 91x91mm



Model length 640mm

Model length above 800mm

SPECIFICATIONS POLE SIZE: 91x91mm, MAGNETIC FORCE: $4800 \pm 5\%$ kgf/338cm² (4 POLES)

Unit: mm

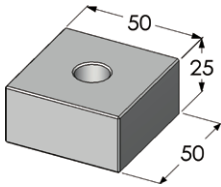
MODEL - D	A	B	C	D	E	F	G	G1	POLE P	NO. OF POLE	T	N.W. (KG)	Voltage (Single phase)	Controller (Included)
ECMC-5959	565	640	75	30	25	20	-	27	91X91	20	M10	214	AC 380V ~ 440V	1N2C
ECMC-59100	565	1025					29			32		343		1N2C
ECMC-59130	565	1250					30			40		418		1N4C
ECMC-8080	790	800					28	28		36		374		1N4C
ECMC-82100	790	1025					29			48		480		1N4C
ECMC-82130	790	1250					30			60		585		1N4C

OPTIONAL ACCESSORIES

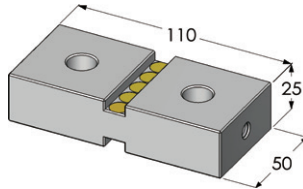
(For Pole Size: 50x50mm)

Magnetic Soft Jaws

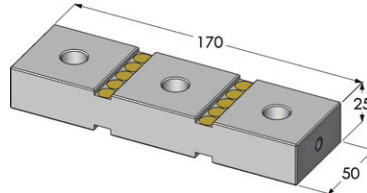
ECMC-MSJ125B



ECMC-MSJ225B

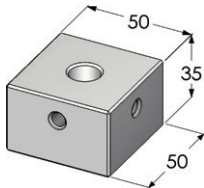


ECMC-MSJ325B



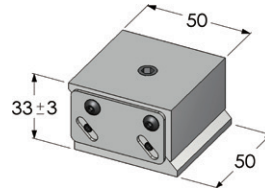
Fixed Soft Jaws

ECMC-FSJ50B



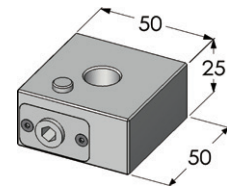
Moveable Spring Pads

ECMC-MSP50B



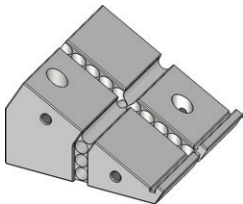
Top Pin Soft Jaws

ECMC-TP50B

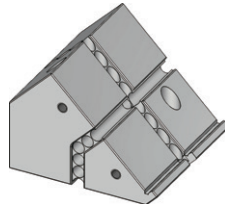


Magnetic Angle Soft Jaws

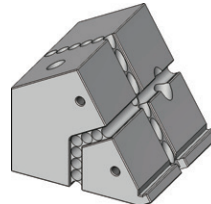
30°
ECMC-ANG30B



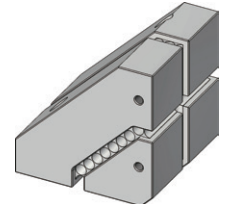
45°
ECMC-ANG45B



60°
ECMC-ANG60B

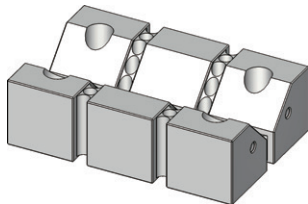


90°
ECMC-ANG90B

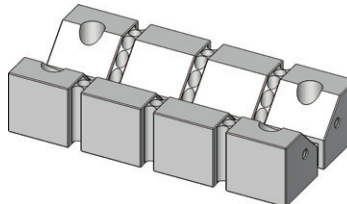


Magnetic Angle Soft V Jaws

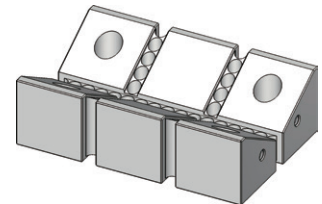
90° (3)
ECMC-ANG90V3B



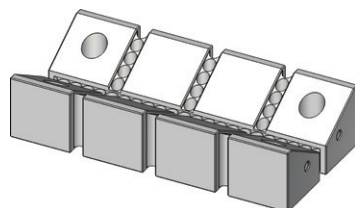
90° (4)
ECMC-ANG90V4B



120° (3)
ECMC-ANG120V3B

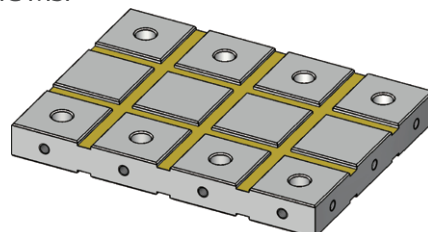


120° (4)
ECMC-ANG120V4B



Magnetic Angle Soft V Jaws

ECMC-MSP



We Accept Order for customized specifications.