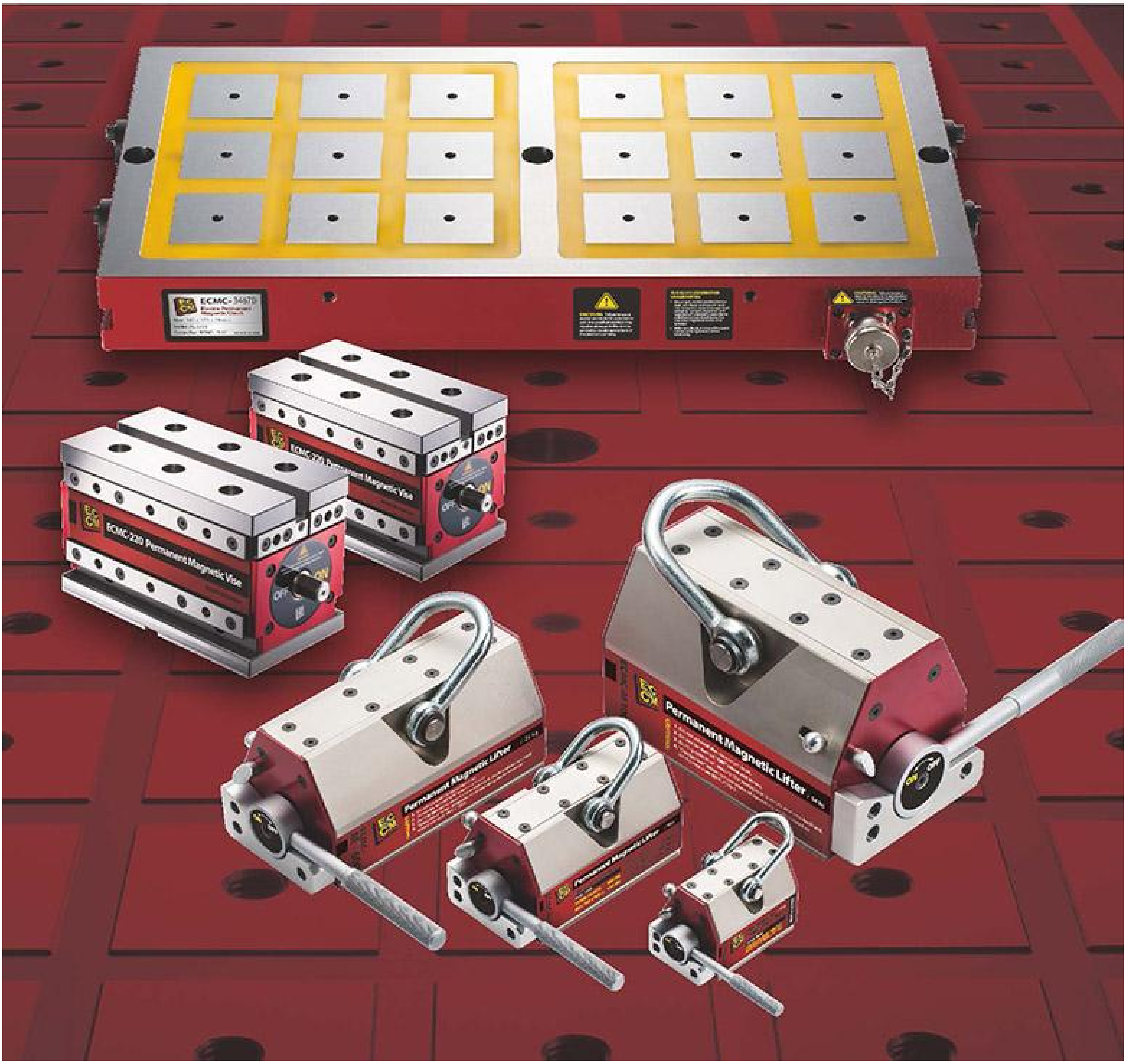
PERMANENT MAGNETIC SERIES:

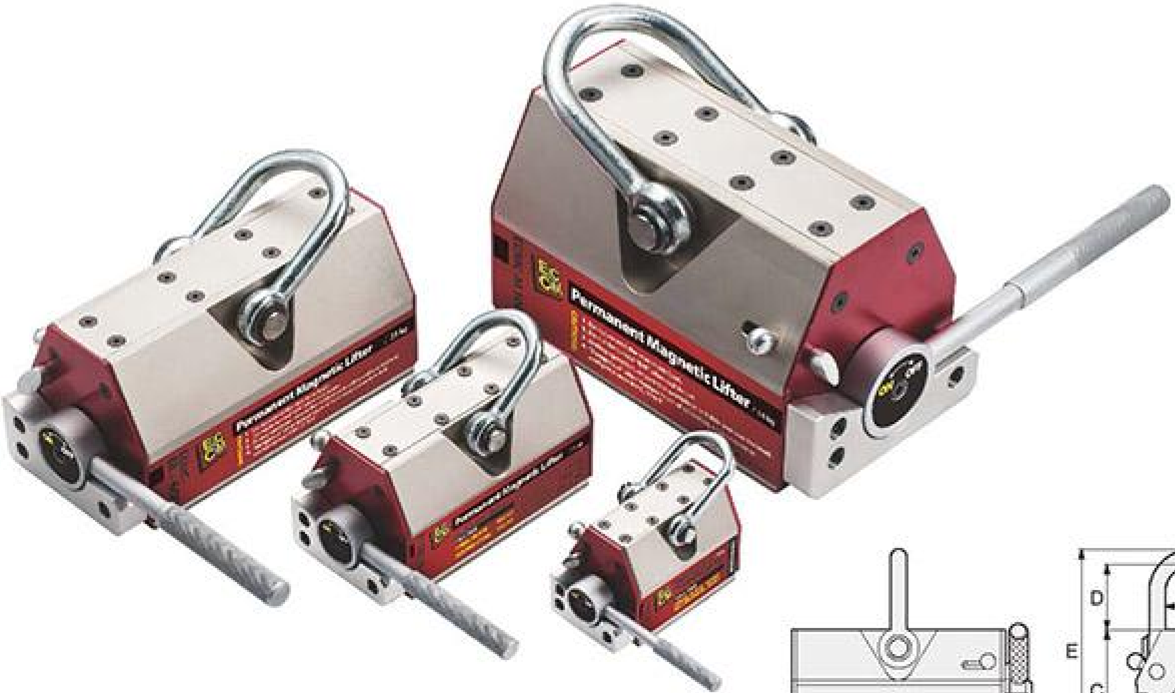
- Electro-Permanent Magnetic Chuck
- Electro-Permanent Magnetic Column
- Electro-Permanent Magnetic Index Table
- Permanent Magnetic Vise
- Permanent Magnetic Lifter

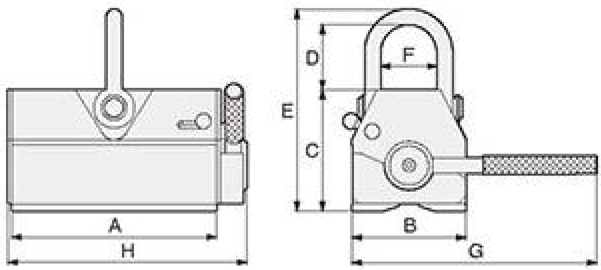


PERMANENT MAGNETIC LIFTER CE

Model: ECMC-M 100, M 300, M+600, M 1000, M 2000

- Made of permanent Neodymium magnet, no electricity, no power outage risk.
- The safety factor is 3.5 times. Permanent Magnetic Lifter provides strong and stable magnetic force with easy operation and increase productivity.
- The special V-type design at the bottom of Permanent Magnetic Lifter can lift the steel plate and round steel...etc.
- Suitable for moving workpiece and molds that made of magnetic material steel, iron and cast iron. Applicable areas: Steel industries, foundries, fabrication factories, shipyards and transport industries.





SPECIFICATIONS

Unit: mm / inch

Model	A		B		C		D		E		F		G		H		Safety factor	Weight	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		kg	lbs
ECMC-M 100	90	3.5	60	2.4	75	3	46	1.8	130	5.1	32	1.3	136	5.4	116	4.6	×3.5	3	6.6
ECMC-M 300	161	6.3	90	3.5	96	3.8	51	2	160	6.3	45	1.8	193	7.6	189	7.4		9	19.8
ECMC-M+600	234	9.2	120	4.7	123	4.8	74	2.9	213	8.4	64	2.5	261	10.3	263	10.4		23	50.6
ECMC-M 1000	269	10.6	170	6.7	170	6.7	94	3.7	285	11.2	100	3.9	376	14.8	301	11.9		54	118.8
ECMC-M 2000	390	15.4	216	8.5	215	8.5	105	4.1	348	13.7	121	4.8	512	20.2	432	17		121	266.2

Model	Steel Plate Max. load		Min. thickness		Round Steel Max. load		Ø Max. diameter		Max. length	
	kg	lbs	mm	inch	kg	lbs	mm	inch	mm	inch
ECMC-M 100	100	220	15	0.6	50	110	150	5.9	500	19.7
ECMC-M 300	300	660	25	1	150	330	250	9.8	800	31.5
ECMC-M+600	600	1320	30	1.2	300	660	350	13.8	1200	47.2
ECMC-M 1000	1000	2200	40	1.6	500	1100	450	17.7	1500	59
ECMC-M 2000	2000	4400	55	2.2	1000	2200	550	21.7	1800	70.9

ELECTRO-PERMANENT MAGNETIC CHUCK CE

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. No repair is needed. 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

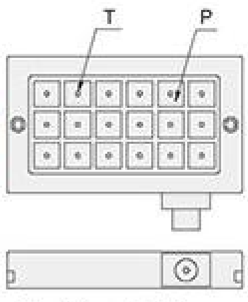
SPECIFICATIONS

Unit: mm

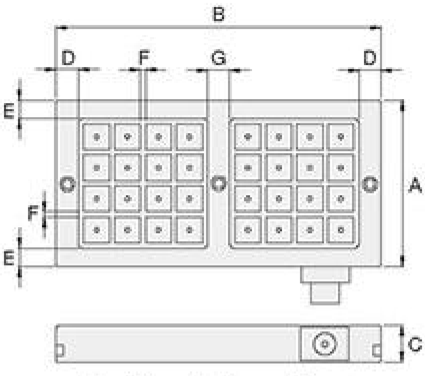
Model	VOLTAGE (Single Phase)	Dimensions			Weight (kg)
		W	L	H	
1N1C					4.1
1N2C	AC 220V/AC380V ~ 440V	192	280	130	4.1
1N3C					4.1
1N4C					4.1

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)

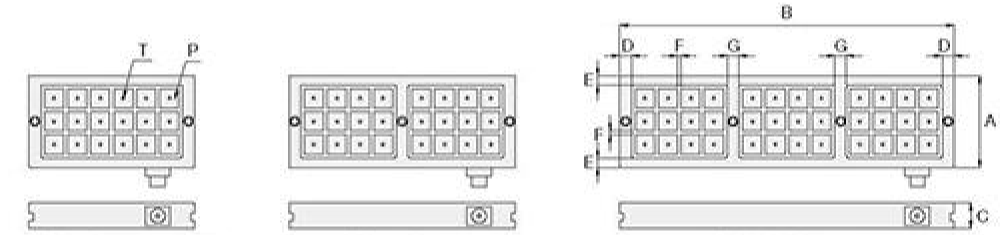
Unit: mm

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		30.5	26		-		18		23		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	52	30	25.5	7	30	35X35	48	M6	53	AC 220V ~ 440V	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



Model length 300~400mm　Model length 600mm　Model length above 800mm

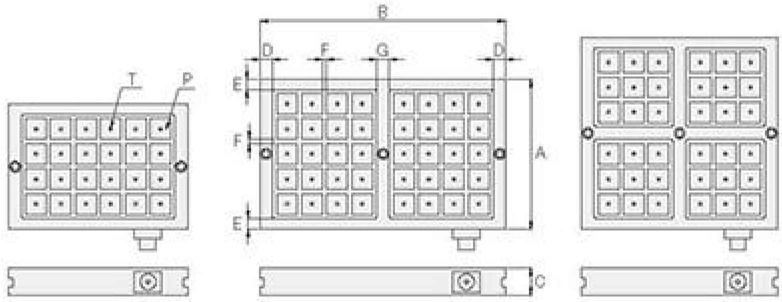
SPECIFICATIONS POLE SIZE: 50x50mm, MAGNETIC FORCE: 1250±5% kgf/100cm² (4 POLES)

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	25	10	-	50X50	4	M8	16	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2525	240	250	62	30	25	10	-	50X50	9	M8	29	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2531	240	310	62	30	25	10	-	50X50	12	M8	36	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2543	240	430	62	30	25	10	-	50X50	18	M8	52	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2550	240	490	62	30	25	10	-	50X50	21	M8	57	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2559	240	590	62	30	25	10	30	50X50	24	M8	71	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2582	240	810	62	30	25	10	30	50X50	33	M8	95	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2587	240	870	62	30	25	10	30	50X50	36	M8	101	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-2599	240	990	62	30	25	10	30	50X50	42	M8	115	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-3031	300	310	62	30	25	10	-	50X50	16	M8	46	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-3043	300	430	62	30	25	10	-	50X50	24	M8	63	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-3059	300	590	62	30	25	10	30	50X50	32	M8	85	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-3082	300	810	62	30	25	10	30	50X50	44	M8	120	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-3087	300	870	62	30	25	10	30	50X50	48	M8	127	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-3099	300	990	62	30	25	10	30	50X50	56	M8	143	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-4343	420	430	62	30	25	10	-	50X50	36	M8	87	AC 220V	1N1C	AC 380V ~ 440V	1N1C
ECMC-4349	420	490	62	30	25	10	-	50X50	42	M8	102	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-4359	420	590	62	30	25	10	30	50X50	48	M8	120	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-4382	420	810	62	30	25	10	30	50X50	66	M8	164	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-4387	420	870	62	30	25	10	30	50X50	72	M8	175	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-4399	420	990	62	30	25	10	30	50X50	84	M8	200	AC 220V	1N3C	AC 380V ~ 440V	1N3C
ECMC-4959	480	590	62	30	25	10	30	50X50	56	M8	131	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-4982	480	810	66	30	25	10	30	50X50	77	M8	206	AC 220V	1N3C	AC 380V ~ 440V	1N3C
ECMC-4987	480	870	66	30	25	10	30	50X50	84	M8	219	AC 220V	1N3C	AC 380V ~ 440V	1N3C
ECMC-4999	480	990	66	30	25	10	30	50X50	98	M8	245	AC 220V	1N3C	AC 380V ~ 440V	1N3C
ECMC-5959	600	590	66	30	25	10	30	50X50	72	M8	184	AC 220V	1N2C	AC 380V ~ 440V	1N2C
ECMC-6082	600	810	66	30	25	10	30	50X50	99	M8	242	AC 220V	1N3C	AC 380V ~ 440V	1N3C
ECMC-6087	600	870	66	30	25	10	30	50X50	108	M8	269	AC 220V	1N3C	AC 380V ~ 440V	1N3C
ECMC-5999	600	990	66	30	25	10	30	50X50	126	M8	307	AC 220V	1N4C	AC 380V ~ 440V	1N4C
ECMC-7582	750	810	66	30	40	10	30	50X50	121	M8	305	AC 220V	1N4C	AC 380V ~ 440V	1N4C

ECMC-C Series

Pole Size: 70x70mm



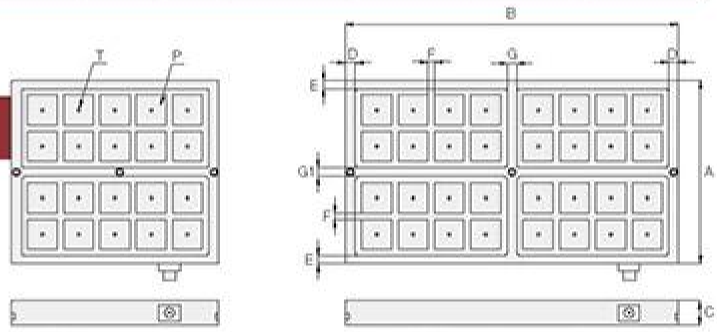
SPECIFICATIONS POLE SIZE:70x70mm, MAGNETIC FORCE: 2800 ± 5% kgf/196cm² (4 POLES)

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		18		126		1N2C		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	25	20	30	70X70	30	M10	220	AC 220V	1N2C	AC 380V ~ 440V	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

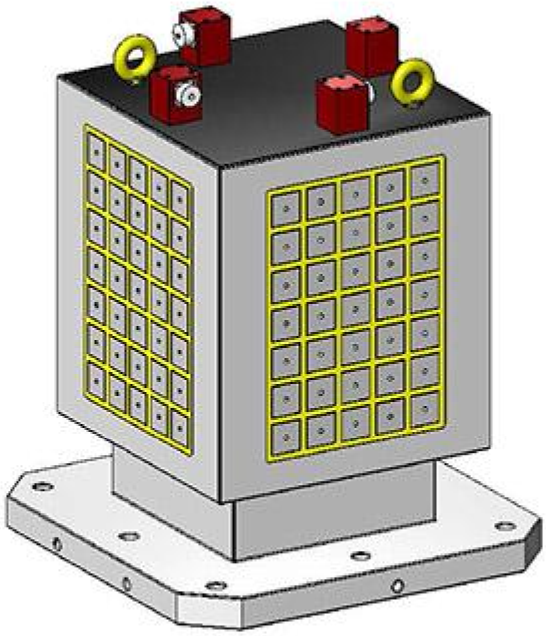
SPECIFICATIONS POLE SIZE: 91x91mm, MAGNETIC FORCE: 4800 ± 5% kgf/338cm² (4 POLES)

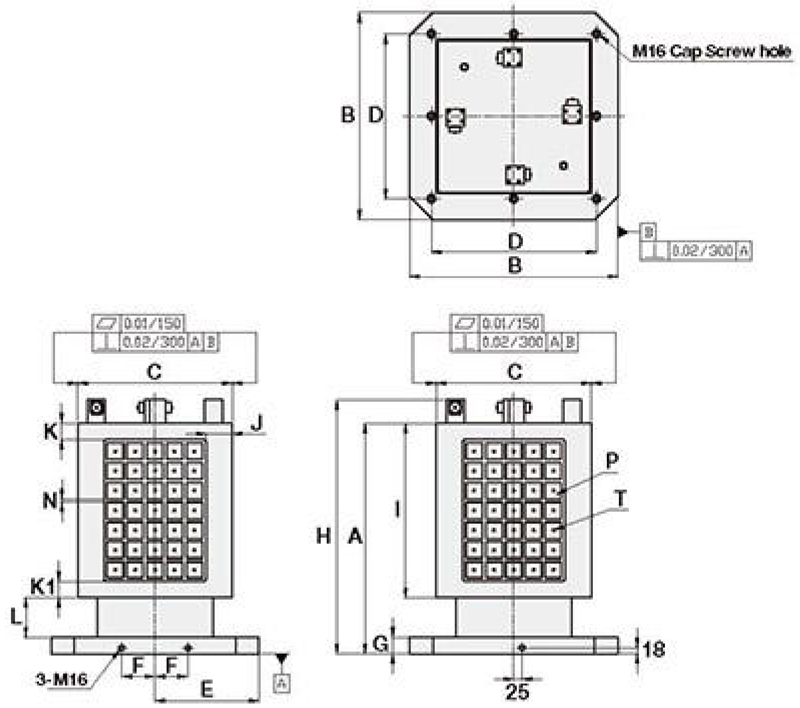
Unit mm

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					-			20		214		1N2C
ECMC-59100	565	1025					29	27		32		343		1N2C
ECMC-59130	565	1250	75	30	25	20	30		91X91	40	M10	418	AC 380V ~ 440V	1N4C
ECMC-8080	790	800					28			36		374		1N4C
ECMC-82100	790	1025					29	28		48		480		1N4C
ECMC-82130	790	1250					30			60		585		1N4C

M/C SQUARE ELECTRO-PERMANENT MAGNETIC COLUMN

- Applicable to all kinds of horizontal computer processing machine.
- Magnetic force as high as 1250kgf/100cm2 ± 5%. (4 magnetic poles)
- Able to provide five-sided processing, effectively save the processing time, improve processing efficiency.
- Workpiece thickness requirement above 25mm.





SPECIFICATIONS

Unit: mm

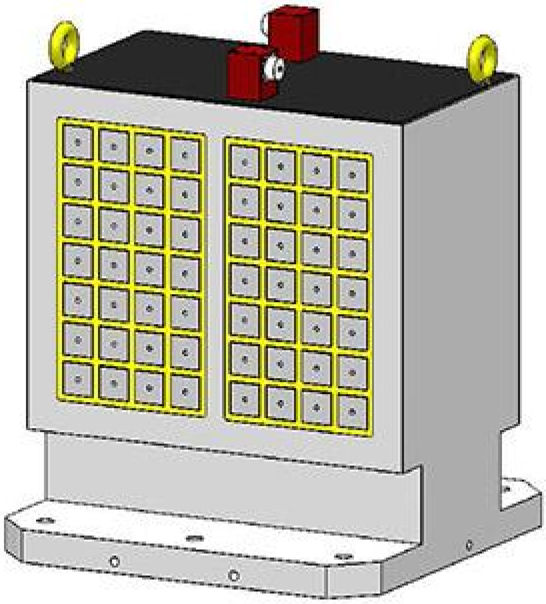
Model	A	B	C	D	E	F	G	H	I	J	K	K1	L	Magnetic surface	N
ECMC-HSF-400	500	400	370	320	200	55	50	571	330	60	40	40	120	330X370	10
ECMC-HSF-500	620	500	470	400	250	75	50	710	450	50	40	40	118	450X470	
ECMC-HSF-630	700	630	470	500	315	100	50	771	530	80	50	50	120	530X470	
ECMC-HSF-800	800	800	620	640	400	135	50	871	630	65	70	70	120	630X620	

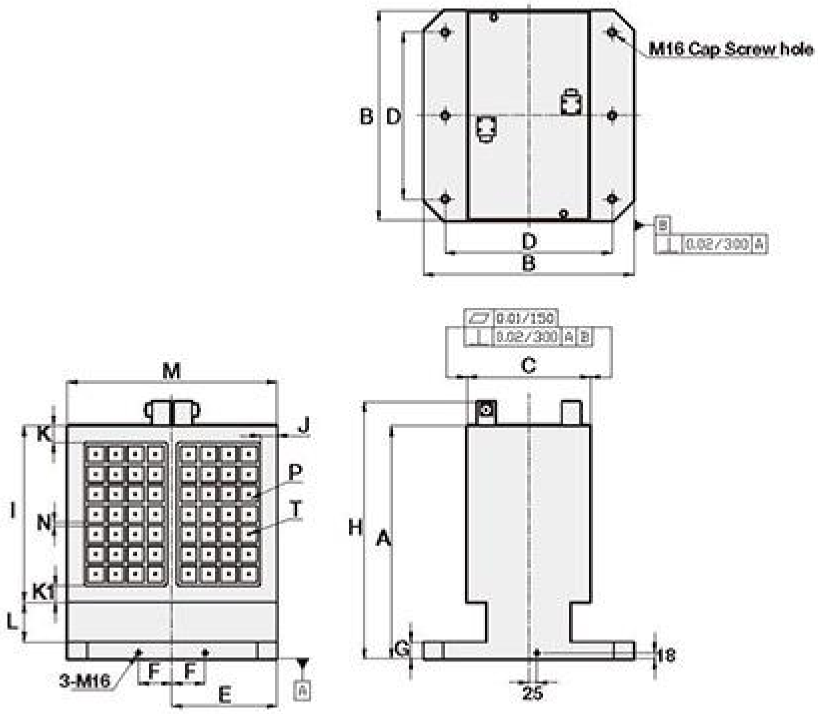
Model	T	P	Number of magnetic pole	Total magnetic force (single side) kgf±5%	Weight (kg)	Voltage	Controller (Included)	Voltage	Controller (Included)
ECMC-HSF-400	M8	50X50	16X4	5000	390	AC 220V	1N1C	AC 380V ~ 440v	1N1C
ECMC-HSF-500			36X4	11200	510		1N1C		1N1C
ECMC-HSF-630			35X4	10900	760		1N1C		1N1C
ECMC-HSF-800			64X4	20000	1380		1N2C		1N2C

M/C DOUBLE-SIDED ELECTRO-PERMANENT MAGNETIC COLUMN

CE

- Applicable to all kinds of horizontal computer processing machine.
- Magnetic force as high as 1250kgf/100cm2 ± 5%. (4 magnetic poles)
- Able to provide five-sided processing, effectively save the processing time, improve processing efficiency.
- Workpiece thickness requirement above 25mm.





SPECIFICATIONS

Unit: mm

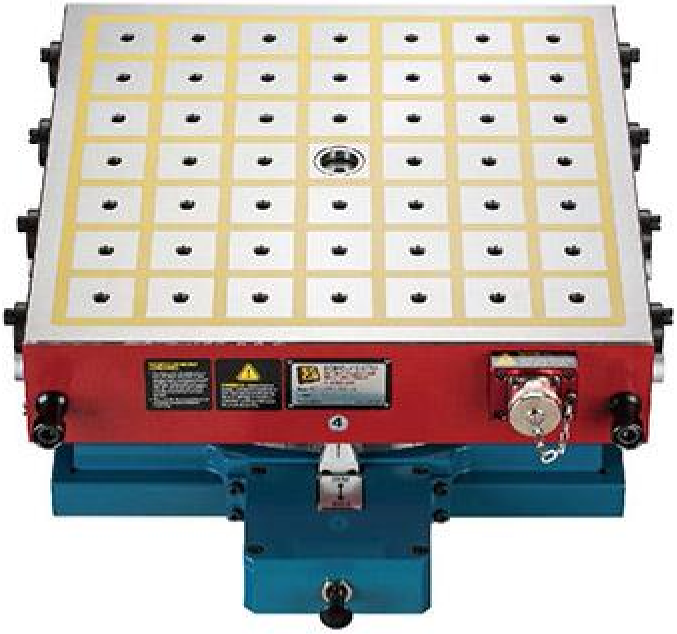
Model	A	B	C	D	E	F	G	H	I	J	K	K1	L	M	Magnetic surface	N
ECMC-HDF-400	500	400	270	320	200	55	50	571	370	45	30	30	80	400	370X400	10
ECMC-HDF-500	600	500	320	400	250	75	50	690	430	35	30	30	118	500	430X500	
ECMC-HDF-630	700	630	370	500	315	100	50	771	530	50	50	50	120	630	530X630	
ECMC-HDF-800	800	800	420	640	400	135	50	871	650	75	50	50	100	800	650X800	

Model	T	P	Number of magnetic pole	Total magnetic force (single side) kgf±5%	Weight (kg)	Voltage	Controller (Included)	Voltage	Controller (Included)
ECMC-HDF-400	M8	50X50	25X2	7800	310	AC 220V	1N1C	AC 380V ~ 440v	1N1C
ECMC-HDF-500			42X2	13100	480		1N2C		1N2C
ECMC-HDF-630			56X2	17500	700		1N2C		1N2C
ECMC-HDF-800			90X2	28100	1150		1N3C		1N3C

ELECTRO-PERMANENT MAGNETIC INDEX TABLE

Features:

- Special pneumatic cylinder design, as massive load is on disk, it reduces friction and assures high accuracy and repeatability.
- Coupling gear is made of high quality bearing steel, high rigidity, high precision, accuracy does not change with the hours of use.
- Magnetic force as high as $1250\pm5\%/100cm^2$ (4 magnetic poles).
- No need to continuously supply power when in use, no wire interference, no temperature rise, good for continued use in a long time.
- Magnetic force is adjustable.
- Strong tightening device, heavy load cutting.



Applicable Range:

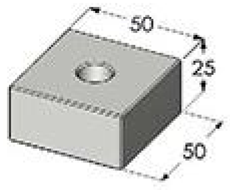
- Most suitable for boring bed, milling machine, surface grinder, precision division.
- Workpiece thickness requirement above 10mm.
- Holding workpiece requires contact from at least 4 magnetic poles.
- Provide five-sided processing, one time processing step.

SPECIFICATIONS

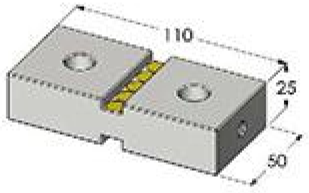
Model			ECMC-PI300	ECMC-PI470	ECMC-PI600	ECMC-PI800
1	Length x Width		300X300mm	470X470mm	600X600mm	800X800mm
2	Height		188	185	229	304
3	Drive mode	Vertical	Pressure 5 ~ 8kgs/cm^2			
		Turning	Manual			
4	Theoretical maximum vertical load value		1200	2400	3400	4500
5	Allowable load weight (kg)		500	1000	2000	3000
6	Equal division		2,3,4,6,8,12,24	2,3,4,6,8,9,12,18,24,36,72		
7	Disk turning direction		Clockwise and counterclockwise			
8	Division degree		15°/mark	5°/mark		
9	Weight (kg)		110	235	462	993
10	Magnetic pole dimensions		50X50 mm			
11	Number of magnetic pole		16	48	72	144
12	Total magnetic force kgf ±5%		5000	15000	22500	45000
13	Voltage (single phase)		AC 220V			
14	Controller		1N1C	1N2C	1N2C	1N4C
15	Voltage (single phase)		AC 380V ~ 440V			
16	Controller		1N1C	1N2C	1N2C	1N4C

OPTIONAL ACCESSORIES
(For Pole Size: 50x50mm)

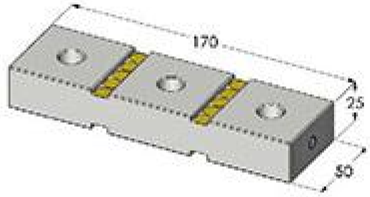
Magnetic Soft Jaws
ECMC-MSJ125B



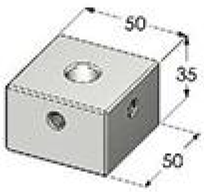
ECMC-MSJ225B



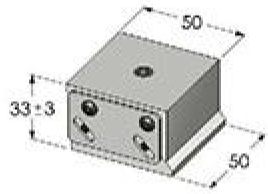
ECMC-MSJ325B



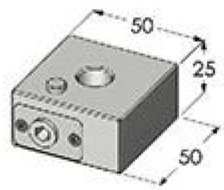
Fixed Soft Jaws
ECMC-FSJ50B



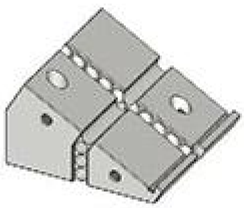
Moveable Spring Pads
ECMC-MSP50B



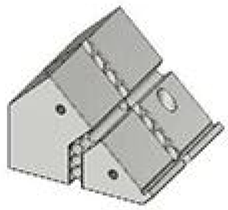
Top Pin Soft Jaws
ECMC-TP50B



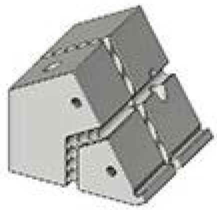
Magnetic Angle Soft Jaws
30°
ECMC-ANG30B



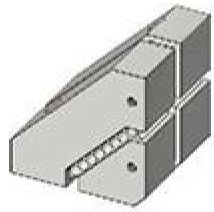
45°
ECMC-ANG45B



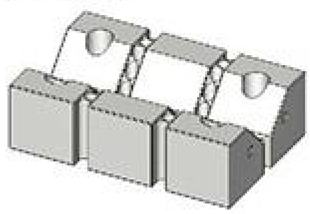
60°
ECMC-ANG60B



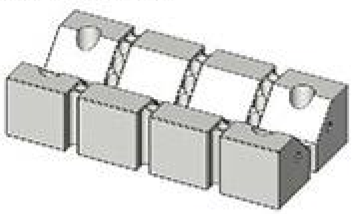
90°
ECMC-ANG90B



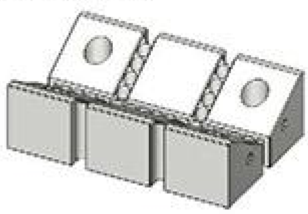
Magnetic Angle Soft V Jaws
90° (3)
ECMC-ANG90V3B



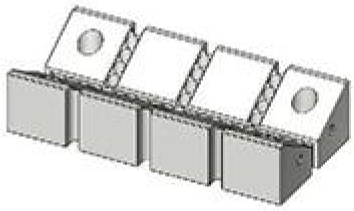
90° (4)
ECMC-ANG90V4B



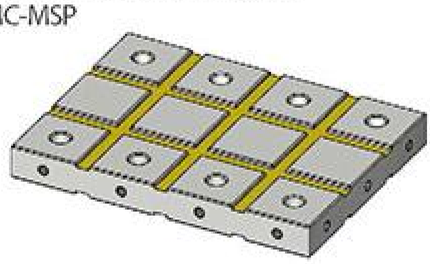
120° (3)
ECMC-ANG120V3B



120° (4)
ECMC-ANG120V4B



Magnetic Angle Soft V Jaws
ECMC-MSP



We Accept Order for customized specifications.

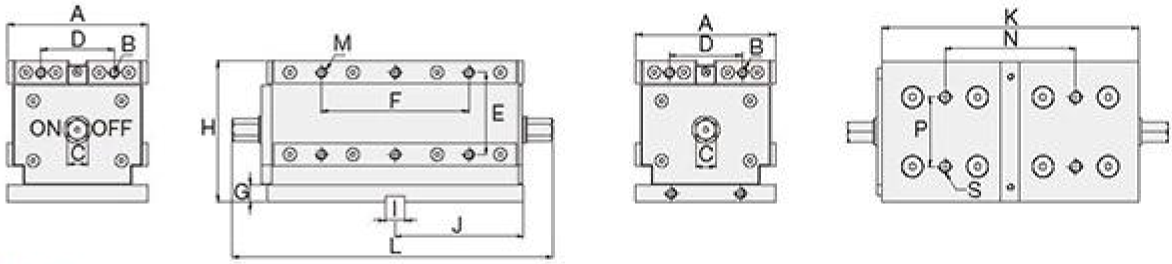
PERMANENT MAGNETIC VISE

Model: ECMC-220, 130

- Suitable for the magnetic material processing
- Quick clamping the workpiece and provide five-sided processing
- Work with various magnetic soft jaws, flexible adjustment and configuration according to processing needs

STANDARD ACCESSORIES:

- 2 pcs of Stopping Block
- 4 pcs of Clamp
- 1 pc of Handle
- 2 pcs of Alignment Wedge



SPECIFICATIONS

Unit: mm

Model	A	B	C	D	E	F	G	H	I	J	K	L
ECMC-220	133	M10	19	69.5	78	140	15	134	18	122	244	305
ECMC-130	108	M8	13	56.5	62	95	12	108	18	99	198	230

Model	M	N	P	S	Holding magnetic force	Minimum workpiece thickness requirement	Weight (kg)
ECMC-220	M10	124	66	M12	2100kgf±5%	30	39
ECMC-130	M8	100	48	M10	1200kgf±5%	20	20

Application Example: