MAGNETIC WORKHOLDING

FOR MILLING

BRISC®

BRM-01-EN

BRISC®

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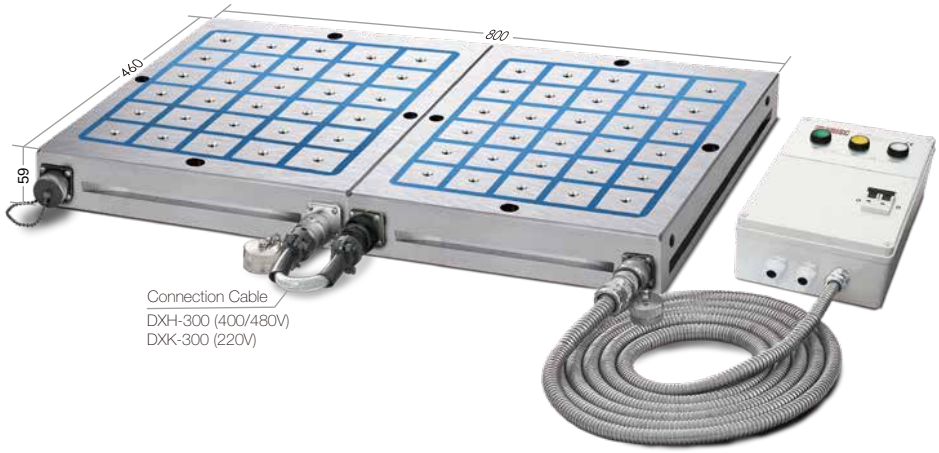


• BRISC AA / BB Electro-permanent magnetic chuck for milling

Features:

- Professional magnetic clamping solution provider with durable and water proof surface
- Unique design eliminate the remaining magnetism dramatically
- Revolutionary design creates higher clamping force
- High tolerance manufacturing creates the most stable and accurate clamping surface
- Two chucks can be combined to reach bigger size

• CUA Control unit

Features:

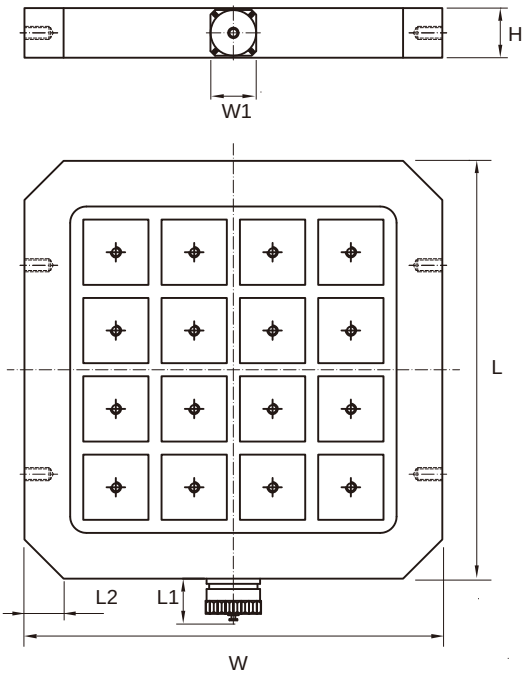
- Control unit has the current detecting system which can tell the success of magnetization
- Control unit has the PLC communication
- Control unit has the output signal enable function which can prevent machine tool from operating when the chuck is not magnetized
- Control unit has the input signal enable function which can prevent the chuck be demagnetized when machine is running

Model	Width (B)	Length (L)	Height(H)	Pole No.	Pole Dimensions	Net Weight	Controller (400/480V)	Controller (220V)
BRISC-AA	400 (15.75)	340 (13.39)	59 (2.32)	20	50 x 50	60 kg / 132 lb	CUA-H	CUD-H
BRISC-BB	460 (18.11)	400 (15.75)	59 (2.32)	30	50 x 50	80 kg / 176 lb	CUA-H	CUD-H

Unit: mm(in)

PPN / PPM

PPN



• Square pole electro-permanent pallet chuck

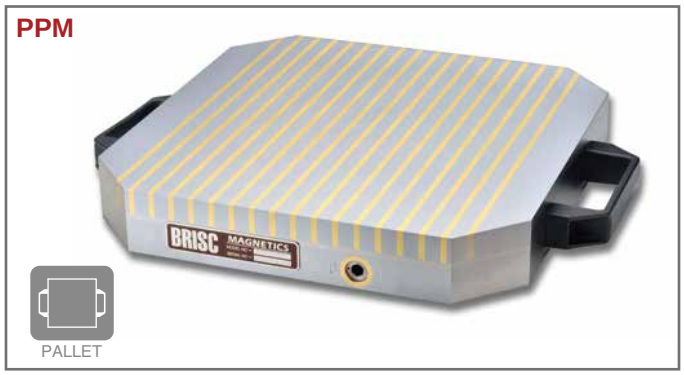
Use:
Clamping for heavy machining for medium to large work pieces

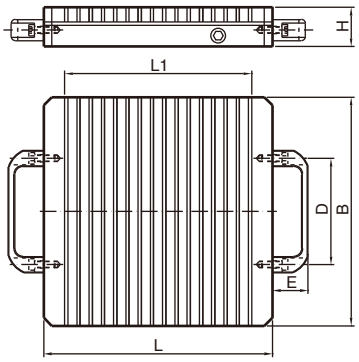
Features:
- Square pole size 50x50 mm
- Magnetic force higher than 350 kg per pole
- Electro-permanent technology with no deformation owing to the rise of temperature
- Distortion free clamping with auto-shim pole extensions
- No residual magnetism
- Controlled flux prevents magnetization of the tool
- Workpiece larger than the table size are machinable

Model	Width(W)	Length(L)	Height(H)	W1	L1	L2	Controller (220/400V)	Net Weight
PPN 3232	320 (12.60)	320 (12.60)	38 (1.50)	35 (1.38)	35 (1.38)	30 (1.18) x 45°	CUA	30 kg / 66 lb

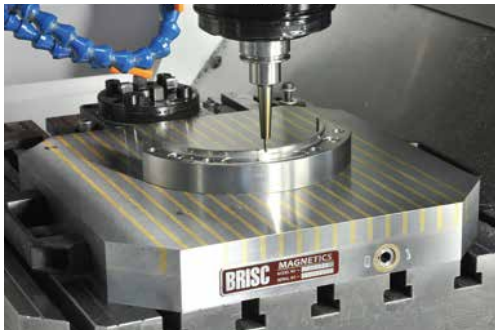
Unit: mm(in)

PPM





• Permanent magnetic pallet chuck for milling



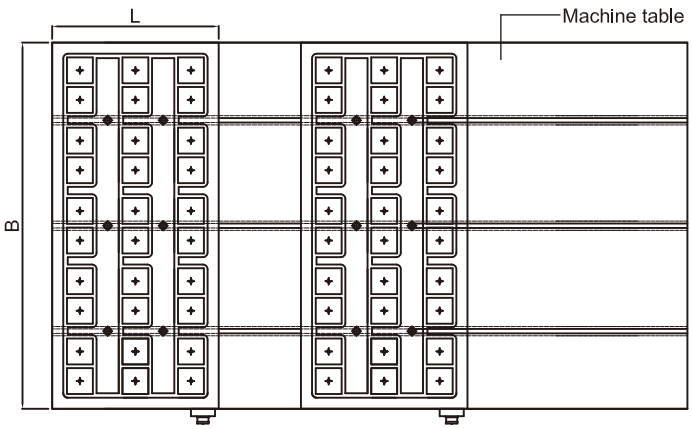
Use:
Clamping for palletizing system

Features:
- Pole pitch 4+11 mm
- Max. Magnetic clamping force up to 180 N/cm²
- No residual magnetism
- Strong clamping force with low flux depth 12 mm
- Easy to activate and de-activate
- High accuracy guaranteed through entire service life

Model	Width(B)	Length(L)	Height(H)	L1	D	E	Net Weight
PPM-2424-48	240 (9.45)	240 (9.45)	48 (1.89)	184 (7.24)	130 (5.12)	40 (1.57)	19 kg / 42 lb
PPM-2828-48	280 (11.02)	280 (11.02)	48 (1.89)	214 (8.43)	130 (5.12)	40 (1.57)	20 kg / 57 lb
PPM-3232-48	320 (12.60)	320 (12.60)	48 (1.89)	259 (10.20)	130 (5.12)	40 (1.57)	35 kg / 77 lb

Unit: mm(in)

XP70



• Electro-permanent magnetic chuck for bridge type machining center

Use:

Clamping for heavy machining for medium to large work pieces

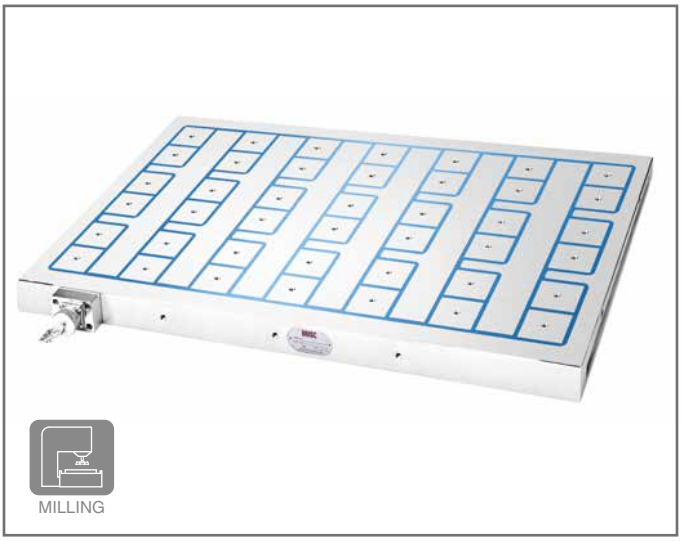
Features:

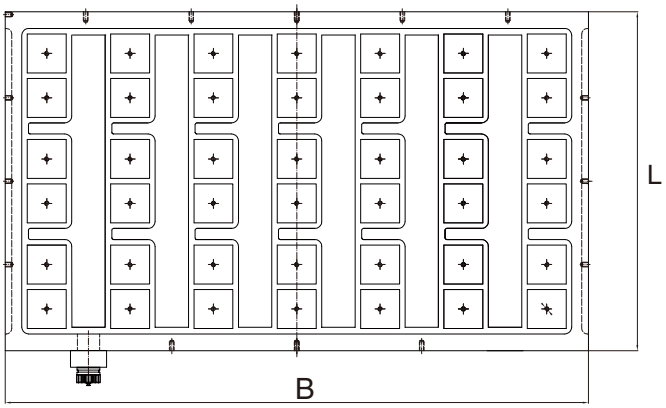
- Square pole size 70x70 mm
- Magnetic force higher than 690 kg per pole
- Electro-permanent technology with no deformation owing to the rise of temperature
- Distortion free clamping with auto-shim pole extensions
- No residual magnetism
- Controlled flux prevents magnetization of the tool
- Workpiece larger than the table size are machinable
- Multiple magnet combinations can provide clamping for any bridge type machining center.

Model	Width (B)	Length (L)	Height(H)	Pole No.	Net Weight	Controller (220V)	Controller (400/480V)
XP70-9945	990 (38.98)	450 (17.72)	80 (3.15)	30	266 kg / 585 lb	CUA	CUA
XP70-11845	1180 (46.46)	450 (17.72)	80 (3.15)	36	317 kg / 697 lb	CUA	CUA
XP70-13745	1370 (53.94)	450 (17.72)	80 (3.15)	42	368 kg / 809 lb	CUD	CUA
XP70-15630	1560 (61.42)	300 (11.81)	80 (3.15)	32	279 kg / 615 lb	CUA	CUA
XP70-17530	1750 (68.9)	300 (11.81)	80 (3.15)	36	313 kg / 690 lb	CUA	CUA

Unit: mm(in)

XP70





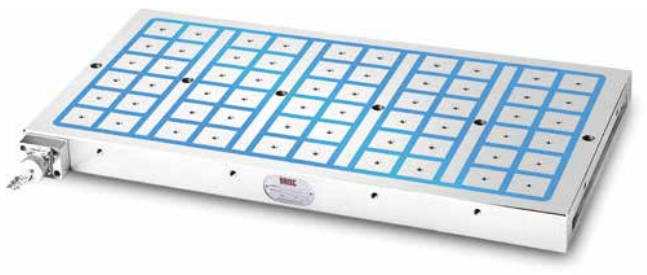
• Square pole electro-permanent magnetic chuck with less density

Use:
Clamping for heavy machining for medium to large work pieces

Features:
- Square pole size 70x70 mm
- Magnetic force higher than 690 kg per pole
- Electro-permanent technology with no deformation owing to the rise of temperature
- Distortion free clamping with auto-shim pole extensions
- No residual magnetism
- Controlled flux prevents magnetization of the tool
- Workpiece larger than the table size are machinable

Model	Width (B)	Length (L)	Height(H)	Pole No.	Net Weight	Controller (220V)	Controller (400/480V)
XP70-6160	610 (24.02)	600 (23.62)	59 (2.32)	24	165 kg / 363 lb	CUA	CUA
XP70-6175	610 (24.02)	750 (29.53)	59 (2.32)	30	210 kg / 463 lb	CUA	CUA
XP70-6190	610 (24.02)	900 (35.43)	59 (2.32)	36	250 kg / 551 lb	CUA	CUA
XP70-61105	610 (24.02)	1050 (41.34)	59 (2.32)	42	290 kg / 639 lb	CUD	CUA
XP70-8075	800 (31.50)	750 (29.53)	59 (2.32)	40	275 kg / 606 lb	CUD	CUA
XP70-8090	800 (31.50)	900 (35.43)	59 (2.32)	48	330 kg / 728 lb	CUD	CUD
XP70-80105	800 (31.50)	1050 (41.34)	59 (2.32)	56	380 kg / 838 lb	CUD	CUD

Unit: mm(in)



MILLING

• Square pole electro-permanent magnetic chuck with standard density

Use:

Clamping for heavy machining for medium to large work pieces

Features:

- Square pole size 50x50 mm
- Magnetic force higher than 350 kg per pole
- Electro-permanent technology with no deformation owing to the rise of temperature
- Distortion free clamping with auto-shim pole extensions
- No residual magnetism
- Controlled flux prevents magnetization of the tool
- Flux depth 12 mm
- Workpiece larger than the table size are machinable
- Multiple magnet combinations can provide clamping for any table size, large or small

Model	Width	Length	Height	Pole No.	Net Weight	Controller (220V)	Controller (400/480V)
PSP-3634	360 (14.17)	340 (13.39)	59 (2.32)	20	56 kg / 123 lb	CUA	CUA
PSP-3649	360 (14.17)	490 (19.29)	59 (2.32)	30	82 kg / 180 lb	CUA	CUA
PSP-3664	360 (14.17)	640 (25.20)	59 (2.32)	40	107 kg / 235 lb	CUA	CUA
PSP-3679	360 (14.17)	790 (31.10)	59 (2.32)	50	133 kg / 293 lb	CUA	CUA
PSP-4264	420 (16.54)	640 (25.20)	59 (2.32)	48	126 kg / 277 lb	CUA	CUA
PSP-4279	420 (16.54)	790 (31.10)	59 (2.32)	60	156 kg / 343 lb	CUD	CUA
PSP-4294	420 (16.54)	940 (37.01)	59 (2.32)	72	186 kg / 410 lb	CUD	CUA
PSP-42109	420 (16.54)	1090 (42.91)	59 (2.32)	84	215 kg / 473 lb	CUD	CUA
PSP-4864	480 (18.90)	640 (25.20)	59 (2.32)	56	144 kg / 317 lb	CUA	CUA
PSP-4879	480 (18.90)	790 (31.10)	59 (2.32)	70	178 kg / 392 lb	CUD	CUA
PSP-4894	480 (18.90)	940 (37.01)	59 (2.32)	84	212 kg / 467 lb	CUD	CUA
PSP-48109	480 (18.90)	1090 (42.91)	59 (2.32	98	246 kg / 542 lb	CUD	CUD

Unit: mm(in)

MILLING

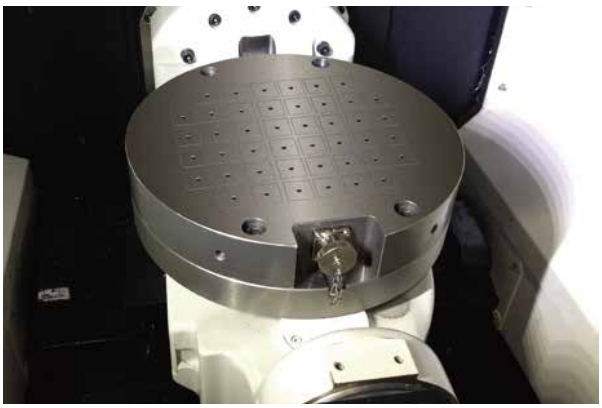
• Square pole electro-permanent magnetic chuck with standard density

Use:

Clamping for heavy machining for medium to large work pieces

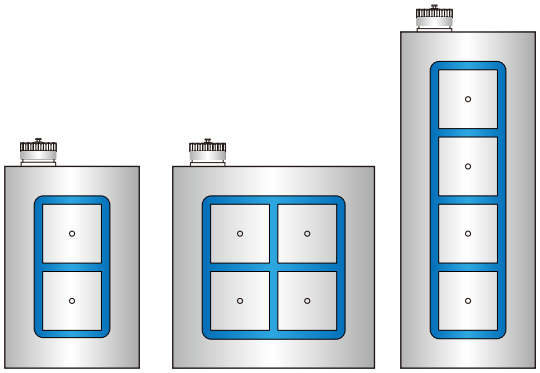
Features:

- Square pole size 50x50 mm
- Magnetic force higher than 350 kg per pole
- Electro-permanent technology with no deformation owing to the rise of temperature
- Distortion free clamping with auto-shim pole extensions
- No residual magnetism
- Controlled flux prevents magnetization of the tool
- Flux depth 12 mm
- Workpiece larger than the table size are machinable



Model	Diameter	Height	Pole No.	Net Weight	Controller (220V)	Controller (400/480V)
PRP-400	400 (15.75)	45 (1.77)	21	42 kg / 92.6 lb	CUA	CUA
PRP-500	500 (19.69)	45 (1.77)	32	66 kg / 145.5 lb	CUA	CUA
PRP-600	600 (23.62)	45 (1.77)	52	95 kg / 209.4 lb	CUA	CUA
PRP-700	700 (27.56)	45 (1.77)	68	130 kg / 286.6 lb	CUD	CUA
PRP-800	800 (31.50)	45 (1.77)	96	170 kg / 374.8 lb	CUD	CUD
PRP-900	900 (35.43)	45 (1.77)	120	214 kg / 471.7 lb	CUF	CUD
PRP-1000	1000 (39.37)	45 (1.77)	156	265 kg / 584.2 lb	CUF	CUD

Unit: mm(in)



PZP-A PZP-B PZP-C

• Electro-permanent magnetic module with double sided clamping surfaces

Use:
Clamping for heavy machining for medium to large work pieces

Features:
- With double sided clamping surfaces
- Can be self-clamped on the machine table
- Top surface clamping and bottom surface clamping can be controlled by different channels
- Channel 1 for top surface clamping, Channel 2 for bottom surface clamping
- Square pole size 70x70 mm
- Magnetic force higher than 690 kg per pole
- With no deformation owing to the rise of the temperature
- No residual magnetism
- Workpiece larger than the table size are machinable
- Multiple magnet combinations can provide clamping for any table size

PZP-A

Top side up

PZP-A

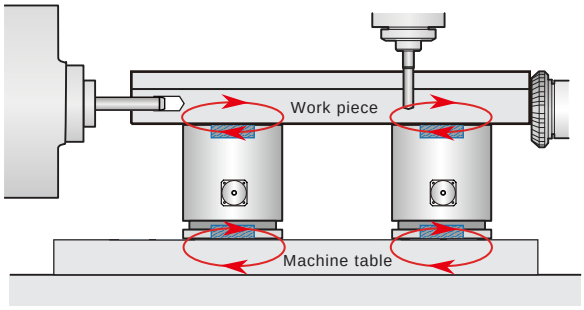
Bottom side up

CUT-A with channel selection function
Channel 1 for top, Channel 2 for bottom

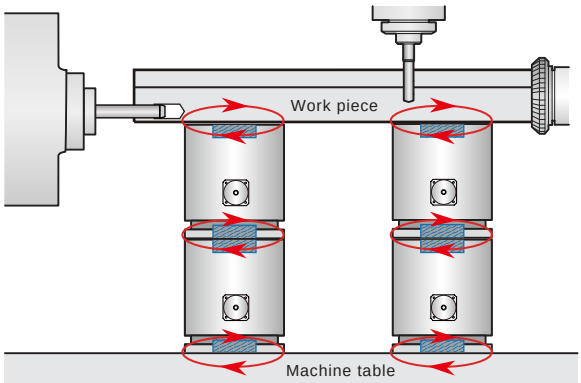
PZP-B

PZP-C

Application 1

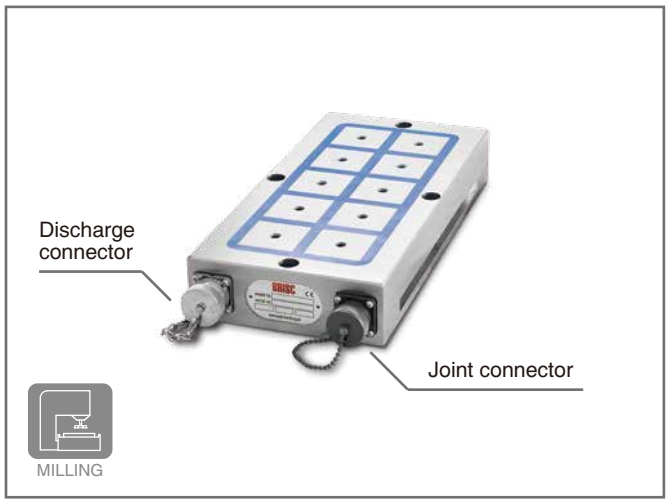


Application 2



Model	Width	Length	Heigh	Pole No.	Net Weight	Control Unit (220 / 400V)	Clamping Force per side
PZP-A	160 (6.29)	240 (9.44)	110 (4.33)	2 x 2	33 kg / 62 lb	CUT-A	13.8 kN
PZP-B	240 (9.44)	240 (9.44)	110 (4.33)	4 x 2	49 kg / 62 lb	CUT-A	27.6 kN
PZP-C	160 (6.29)	400 (15.74)	110 (4.33)	4 x 2	59 kg / 62 lb	CUT-A	27.6 kN

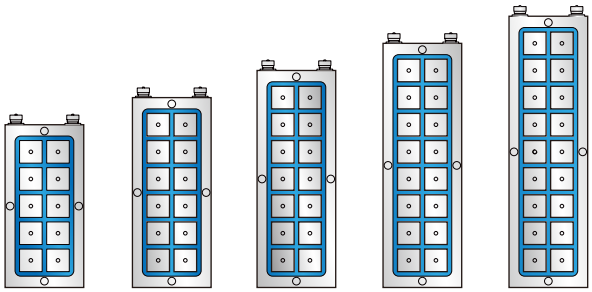
Unit: mm(in)



• Square pole electro-permanent magnetic module

Use:
Clamping for heavy machining for medium to large work pieces

Features:
- Square pole size 50x50 mm
- Magnetic force higher than 350 kg per pole
- Electro-permanent technology with no deformation owing to the rise of the temperature
- Distortion free clamping with auto-shim pole extensions
- No residual magnetism
- Controlled flux prevents magnetization of the tool
- Workpiece larger than the table size are machinable
- Multiple magnet combinations can provide clamping for any table size, large or small
- Length of connection cable can be made to order



PCC-A*6 + CUA


PCC-B*6 + CUA


PCC-C*5 + CUA

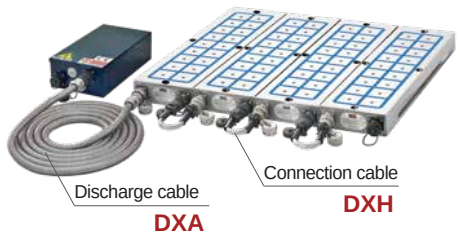

PCC-D*5 + CUA


PCC-E*4 + CUA

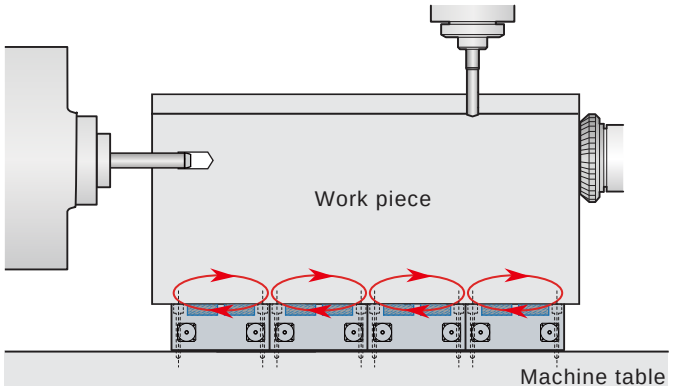

Model	Width	Length	Heigh	Pole No.	Max Plate No.	Net Weight	Control Unit (400/480V)
PCC-A	174 (6.85)	360 (14.17)	59 (2.32)	10	6	24 kg / 53 lb	CUA
PCC-B	174 (6.85)	420 (16.54)	59 (2.32)	12	6	33 kg / 73 lb	CUA
PCC-C	174 (6.85)	480 (18.90)	59 (2.32)	14	5	38 kg / 84 lb	CUA
PCC-D	174 (6.85)	540 (21.26)	59 (2.32)	16	5	43 kg / 95 lb	CUA
PCC-E	174 (6.85)	600 (23.62)	59 (2.32)	18	4	48 kg / 106 lb	CUA

Unit: mm(in)

Application A

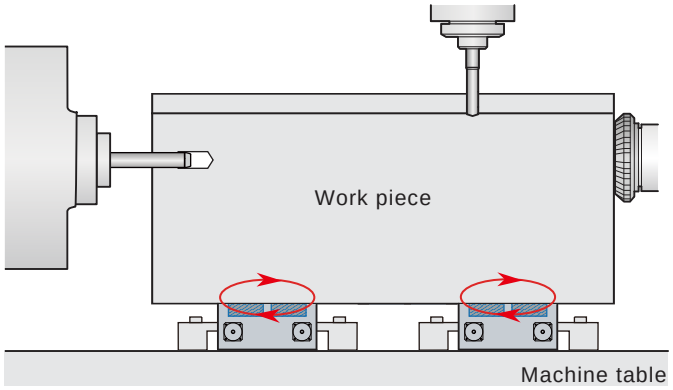


■ Can be used next to each other

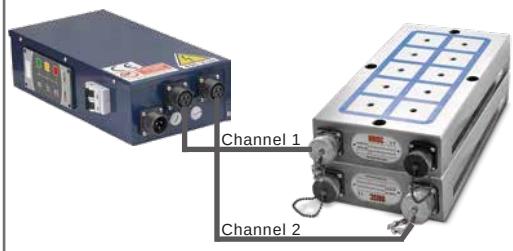


Application B

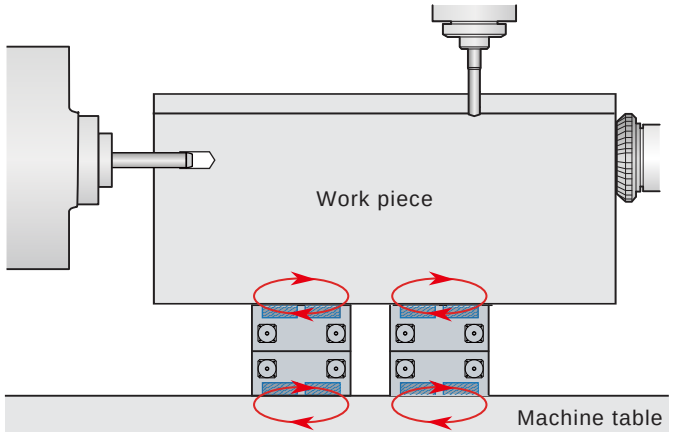
■ Can be used with space in between



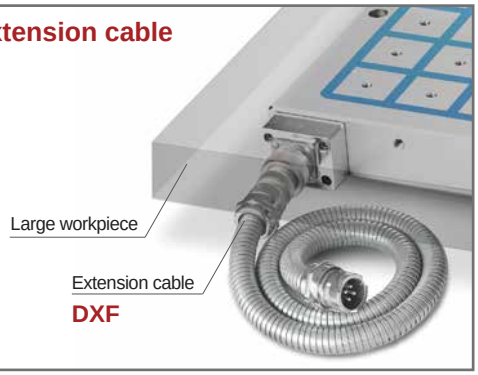
Application C



■ Can bolt-together two PCC and make it two clamping surface separately



Extension cable



Model	Cable length	Space between chucks	Description
DXH-300	300 (11.8)	0 - 50 (0 - 1.96)	connection cable
DXH-1000	1000 (39.4)	0 - 600 (0 - 23.62)	connection cable

Unit: mm(in)

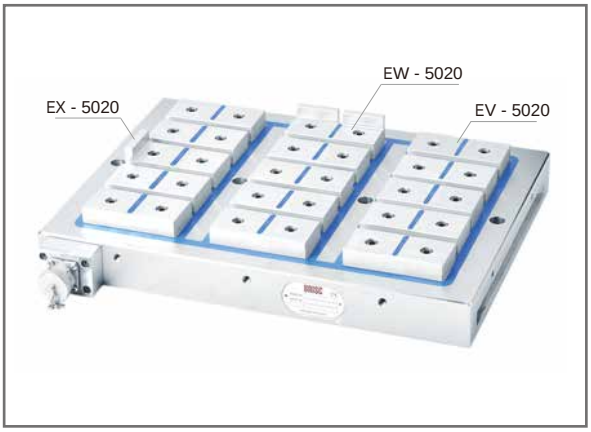
Model	Cable length	Description
DXF-1000	1000 (39.4)	extension cable
DXF-3000	3000 (118.1)	extension cable
DXA-5000	5000 (196.9)	discharge cable
DXA-10000	10000 (393.7)	discharge cable

Unit: mm(in)

Different length cable is available upon request.

Pole Extension (Pole Size 50x50mm)

• Fix pole extensions



• Auto-shim pole extensions

EV-5020
50x50 mm fix pole extension with height 20 mm

EW-5020
50x50 mm fix pole extension with height 20 mm and step

EX-5020
50x50 mm fix pole extension with height 20 mm and step

ES-5052
Diameter 50 mm fix pole extension with height 52 mm

ET-5052
Diameter 50 mm auto-shim pole extension with height 52 mm

EE-5020
50x50 mm fix pole extension with height 20 mm and step

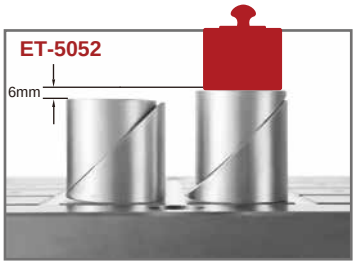
EA-5020
50x50 mm fix pole extension with height 20 mm

EA-5050
50x50 mm fix pole extension with height 50 mm

EC-5050
50x50 mm auto-shim pole extension with height 50 mm

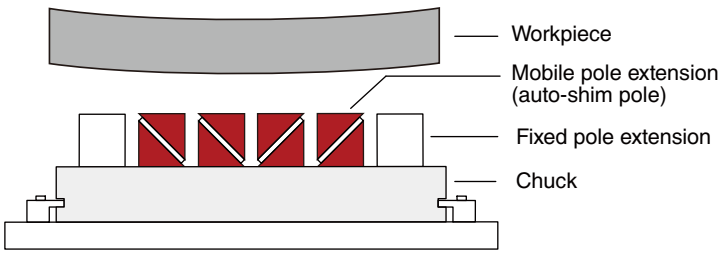
Fix pole extensions

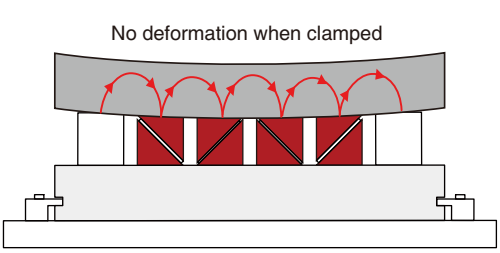
ES fixed and ET self shimming pole extensions using the built in threaded rod which does not require tools to install or remove.



Auto-shim pole extensions

The new and improved ET pole extension has increased the performance of the original ET by 20%. Total adjustment is 6 mm.





Pole Extension (Pole Size 50x50mm)

BRISC®

• Fix pole extensions for workpiece less than 10mm thick

• Auto-shim pole extensions for workpiece less than 10mm thick

EV-5020-10
50x50 mm fix pole extension with height 20 mm

EW-5020-10
50x50 mm fix pole extension with height 20 mm and step

EX-5020-10
50x50 mm fix pole extension with height 20 mm and step

ES-5052-10
Diameter 50 mm fix pole extension with height 52 mm

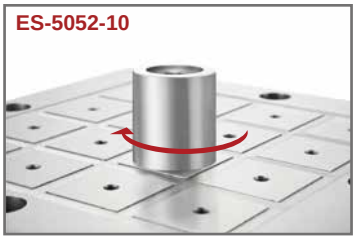
ET-5052-10
Diameter 50 mm auto-shim pole extension with height 52 mm

EE-5020-10
50x50 mm fix pole extension with height 20 mm and step

EA-5020-10
50x50 mm fix pole extension with height 20 mm

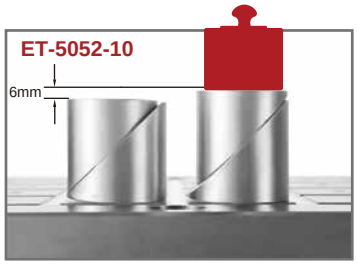
EA-5050-10
50x50 mm fix pole extension with height 50 mm

EC-5050-10
50x50 mm auto-shim pole extension with height 50 mm



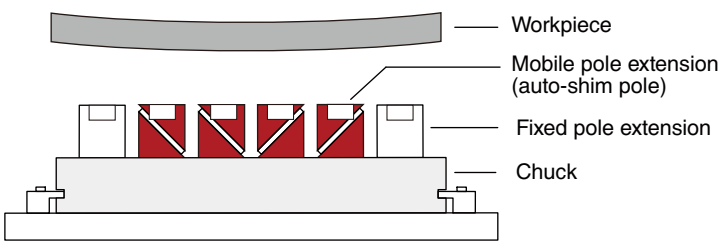
Fix pole extensions

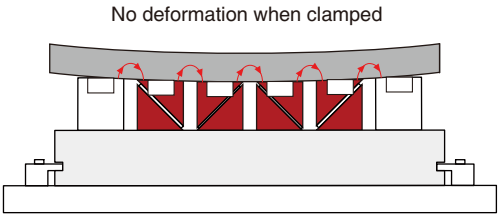
ES fixed and ET self shimming pole extensions using the built in threaded rod which does not require tools to install or remove.



Auto-shim pole extensions

The new and improved ET pole extension has increased the performance of the original ET by 20%. Total adjustment is 6 mm.





Pole Extension (Pole Size 70x70mm)

• Fix pole extensions

• Auto-shim pole extensions

EV-7020
70x70 mm fix pole extension with height 20 mm

EW-7020
70x70 mm fix pole extension with height 20 mm and step

EX-7020
70x70 mm fix pole extension with height 20 mm and step

ES-7070
Diameter 70 mm fix pole extension with height 52 mm

ET-7070
Diameter 70 mm auto-shim pole extension with height 52 mm

EE-7020
70x70 mm fix pole extension with height 20 mm and step

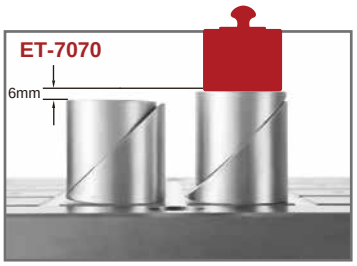
EA-7020
70x70 mm fix pole extension with height 20 mm

EA-7070
70x70 mm fix pole extension with height 50 mm

EC-7070
70x70 mm auto-shim pole extension with height 50 mm

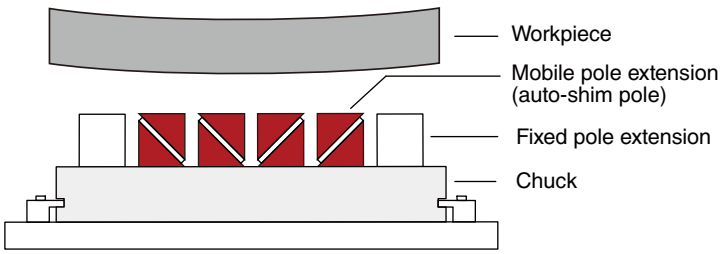
Fix pole extensions

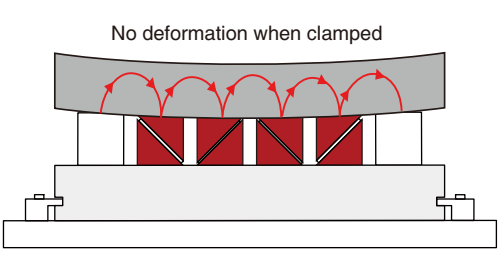
ES fixed and ET self shimming pole extensions using the built in threaded rod which does not require tools to install or remove.



Auto-shim pole extensions

The new and improved ET pole extension has increased the performance of the original ET by 20%. Total adjustment is 6 mm.





Pole Extension (Pole Size 70x70mm)

BRISC®

• Fix pole extensions for workpiece less than 10mm thick

• Auto-shim pole extensions for workpiece less than 10mm thick

EV-7020-10
70x70 mm fix pole extension with height 20 mm

EW-7020-10
70x70 mm fix pole extension with height 20 mm and step

EX-7020-10
70x70 mm fix pole extension with height 20 mm and step

ES-7070-10
Diameter 70 mm fix pole extension with height 52 mm

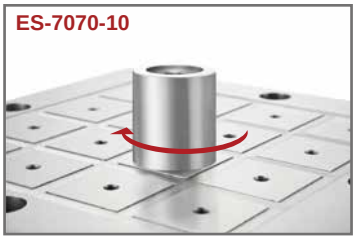
ET-7070-10
Diameter 70 mm auto-shim pole extension with height 52 mm

EE-7020-10
70x70 mm fix pole extension with height 20 mm and step

EA-7020-10
70x70 mm fix pole extension with height 20 mm

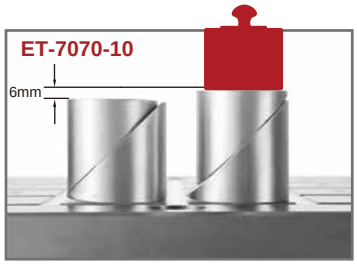
EA-7070-10
70x70 mm fix pole extension with height 50 mm

EC-7070-10
70x70 mm auto-shim pole extension with height 50 mm



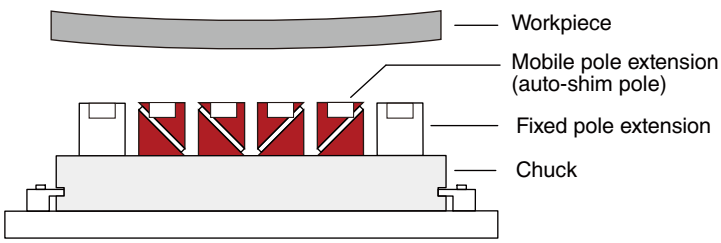
Fix pole extensions

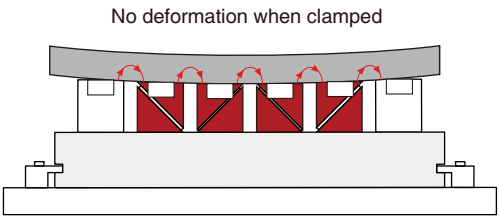
ES fixed and ET self shimming pole extensions using the built in threaded rod which does not require tools to install or remove.



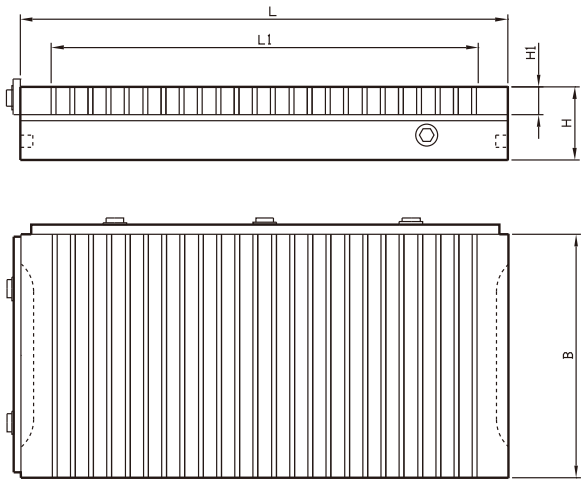
Auto-shim pole extensions

The new and improved ET pole extension has increased the performance of the original ET by 20%. Total adjustment is 6 mm.





PMM



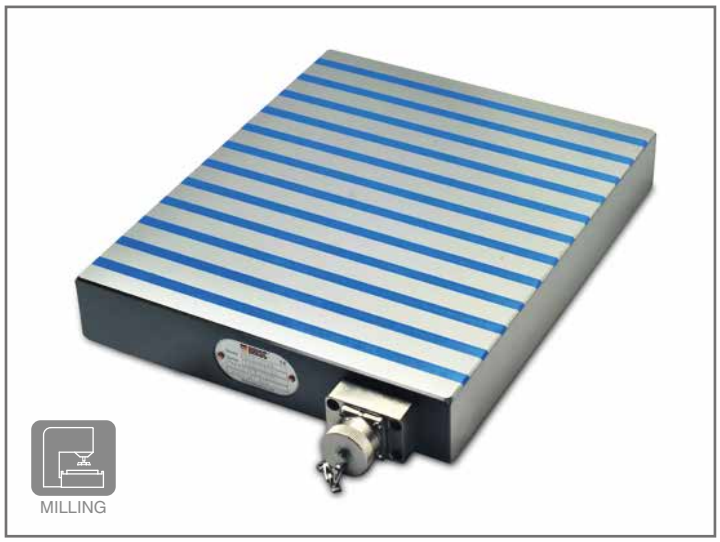
• Permanent magnetic chuck for milling

Use:
Clamping for heavy machining operation

Features:
- Pole pitch 4+11 mm
- Max. magnetic clamping force up to 180 N/cm²
- Highly concentrated magnetic field with low flux depth 6 mm
- Low flux depth prevents magnetization of the tooling
- Coolant and water proof structure
- Easy to activate and de-activate
- High precision with no residual magnetism

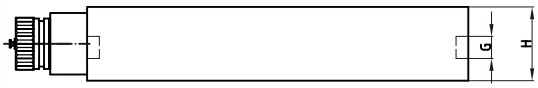
Model	Width(B)	Length(L)	Effective Length(L1)	Height(H)	H1	Net Weight
PMM-1525	150 (5.91)	250 (9.84)	199 (7.83)	56 (2.20)	23 (0.91)	16 kg / 34 lb
PMM-1530	150 (5.91)	300 (11.81)	259 (10.20)	56 (2.20)	23 (0.91)	19 kg / 41 lb
PMM-1535	150 (5.91)	350 (13.78)	304 (11.97)	56 (2.20)	23 (0.91)	22 kg / 48 lb
PMM-1545	150 (5.91)	450 (17.72)	409 (16.10)	56 (2.20)	23 (0.91)	28 kg / 62 lb
PMM-2030	200 (7.87)	300 (11.81)	259 (10.20)	59 (2.32)	23 (0.91)	26 kg / 58 lb
PMM-2040	200 (7.87)	400 (15.75)	349 (13.74)	59 (2.32)	23 (0.91)	35 kg / 77 lb
PMM-2045	200 (7.87)	450 (17.72)	409 (16.10)	59 (2.32)	23 (0.91)	40 kg / 87 lb
PMM-2050	200 (7.87)	500 (19.69)	454 (17.84)	59 (2.32)	23 (0.91)	44 kg / 97 lb
PMM-2060	200 (7.87)	600 (23.62)	559 (22.01)	59 (2.32)	23 (0.91)	53 kg / 116 lb
PMM-2530	250 (9.84)	300 (11.81)	259 (10.20)	59 (2.32)	23 (0.91)	33 kg / 73 lb
PMM-2535	250 (9.84)	350 (13.78)	304 (11.97)	59 (2.32)	23 (0.91)	38 kg / 85 lb
PMM-2540	250 (9.84)	400 (15.75)	349 (13.74)	59 (2.32)	23 (0.91)	44 kg / 97 lb
PMM-2545	250 (9.84)	450 (17.72)	409 (16.10)	59 (2.32)	23 (0.91)	49 kg / 109 lb
PMM-3040	300 (11.81)	400 (15.75)	349 (13.74)	62 (2.44)	28 (1.10)	55 kg / 122 lb
PMM-3050	300 (11.81)	500 (19.69)	459 (18.07)	62 (2.44)	28 (1.10)	69 kg / 153 lb
PMM-3060	300 (11.81)	600 (23.62)	559 (22.01)	62 (2.44)	28 (1.10)	83 kg / 183 lb
PMM-4040	400 (15.75)	400 (15.75)	349 (13.74)	62 (2.44)	28 (1.10)	94 kg / 207 lb
PMM-4060	400 (15.75)	600 (23.62)	559 (22.01)	62 (2.44)	28 (1.10)	116 kg / 255 lb

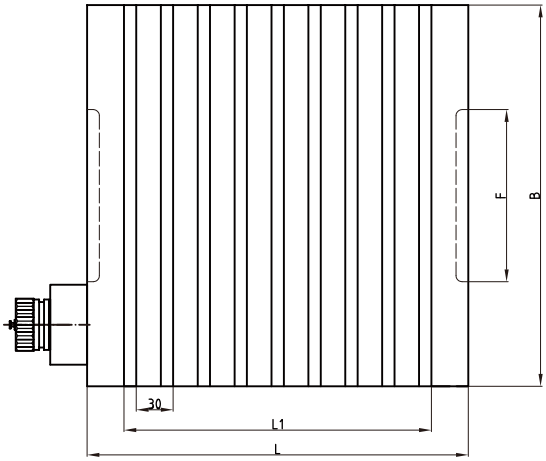
Unit: mm(in)



Fine Pole Pitch

For Hard Steel or High Carbon Steel





• Fine pole pitch electro-permanent magnetic chuck

Use:

For universal clamping with higher magnetic force

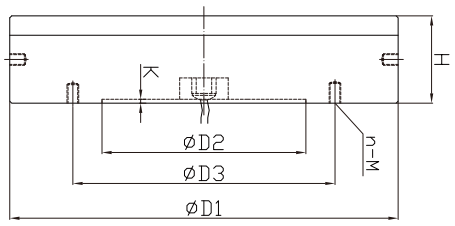
Features:

- Pole pitch 10+20 mm
- Highest clamping force up to 140 N/cm²
- Electro-permanent technology with no deformation owing to the rise of the temperature
- Can eliminate the residual magnetism from the workpiece
- Minimum mechanical deformation with solid one-piece housing

Model	Width (B)	Length (L)	Height (H)	L1	Pole No.	F	G	Net Weight	Controller
EPI-3131	310 (12.20)	310 (12.20)	60 (2.36)	250 (9.84)	8	140 (5.51)	18 (0.7)	45 kg / 99 lb	CGA
EPI-3140	310 (12.20)	400 (15.75)	60 (2.36)	340 (13.39)	11	140 (5.51)	18 (0.7)	58 kg / 128 lb	CGA
EPI-3149	310 (12.20)	490 (19.29)	60 (2.36)	430 (16.93)	14	140 (5.51)	18 (0.7)	71 kg / 157 lb	CGA
EPI-3161	310 (12.20)	610 (20.02)	60 (2.36)	550 (21.65)	18	140 (5.51)	18 (0.7)	89 kg / 196 lb	CGA
EPI-4140	410 (16.14)	400 (15.75)	60 (2.36)	340 (13.39)	11	200 (7.87)	18 (0.7)	77 kg / 169 lb	CGA
EPI-4149	410 (16.14)	490 (19.29)	60 (2.36)	430 (16.93)	14	200 (7.87)	18 (0.7)	94 kg / 206 lb	CGA
EPI-4161	410 (16.14)	610 (20.02)	60 (2.36)	550 (21.65)	18	200 (7.87)	18 (0.7)	117 kg / 257 lb	CGA
EPI-4179	410 (16.14)	790 (31.10)	60 (2.36)	730 (28.74)	24	200 (7.87)	18 (0.7)	133 kg / 292 lb	CGD

Unit: mm(in)

For Hard Steel or High Carbon Steel



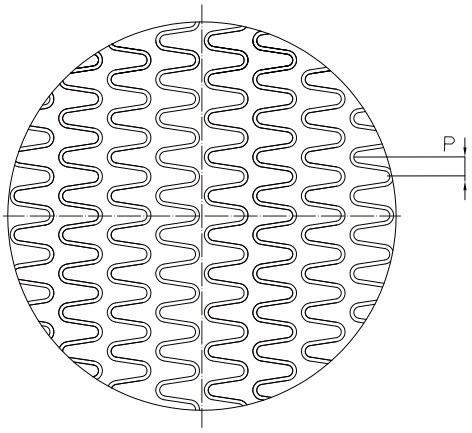
• Waved pole pitch circular electro-permanent magnetic chuck

Use:

Clamping for grinding of disc shaped workpieces on internal and external grinders with rotary tables

Features:

- Pole pitch 11 / 14 / 20 / 25 / 36 mm
- Max. magnetic clamping force up to 160 N/cm²
- Electro-permanent technology with no deformation owing to the rise of temperature
- Can eliminate residual magnetism from the workpiece
- Coolant and water proof structure
- Mono-block housing for maximum stability

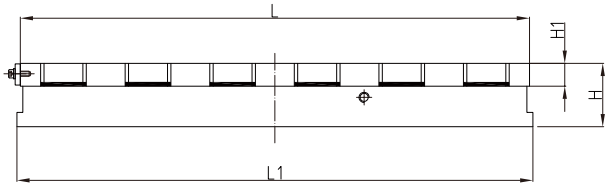


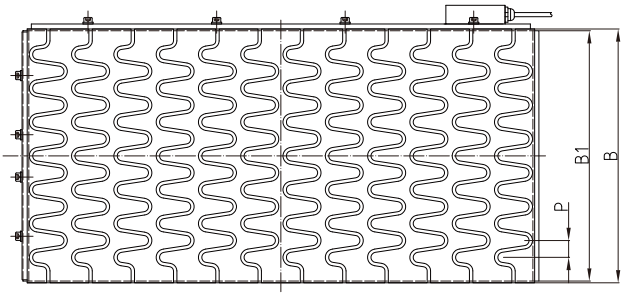
Model	Diameter(D1)	Height(H)	D2	D3	n	M	K	Net Weight	Controller (400V)
EPT-300	300(11.81)	90(3.54)	160(6.30)	190(7.48)	4	10	4 (0.16)	49 kg / 1.8 lb	CGA
EPT-400	400(11.75)	90(3.54)	210(7.87)	250(9.84)	6	12	4 (0.16)	88 kg / 194 lb	CGA
EPT-500	500(19.69)	90(3.54)	320(12.60)	380(14.96)	6	12	4 (0.16)	138 kg / 304 lb	CGA
EPT-600	600(23.62)	90(3.54)	350(13.78)	390(15.35)	6	12	4 (0.16)	199 kg / 438 lb	CGA
EPT-700	700(27.56)	90(3.54)	400(15.75)	450(17.72)	6	16	4 (0.16)	286 kg / 692 lb	CGA
EPT-800	800(31.50)	90(3.54)	450(17.72)	500(19.69)	6	16	4 (0.16)	374 kg / 823 lb	CGD
EPT-1000	1000(39.37)	90(3.54)	550(21.65)	620(24.41)	8	16	4 (0.16)	585 kg / 1287 lb	CGD

Unit: mm(in)

MILLING

For Hard Steel or High Carbon Steel





• Waved pole pitch electro-permanent magnetic chuck

Use:

For versatile clamping on a broad range of workpiece sizes

Features:

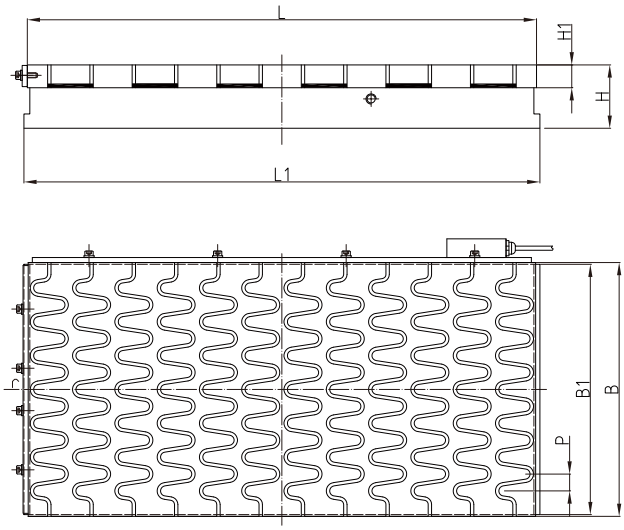
- Pole pitch 11 / 14 / 20 / 25 / 36 mm
- Highest uniform clamping force up to 160 N/cm²
- Electro-permanent magnetic technology with no deformation owing to the rise of temperature
- Can eliminate residual magnetism from the workpiece
- Coolant and water proof structure
- Mono-block housing for maximum stability

Model	Width(B)	Length(L)	Base Width(B1)	L1	Height(H)	H1	Net Weight	Controller (400V)
EPT-3030	300 (11.81)	302 (11.89)	298 (11.73)	310 (12.20)	85 (3.35)	27 (1.06)	57KG / 126 lb	CGA
EPT-3040	300 (11.81)	402 (15.83)	298 (11.73)	410 (16.14)	85 (3.35)	27 (1.06)	76KG / 168 lb	CGA
EPT-3060	300 (11.81)	602 (23.70)	298 (11.73)	610 (24.02)	85 (3.35)	27 (1.06)	114 kg / 251 lb	CGA
EPT-3080	300 (11.81)	802 (31.57)	298 (11.73)	810 (31.89)	85 (3.35)	27 (1.06)	152 kg / 334 lb	CGA
EPT-4040	400 (15.75)	402 (15.83)	398 (15.67)	410 (16.14)	85 (3.35)	27 (1.06)	101KG / 223 lb	CGA
EPT-4060	400 (15.75)	602 (23.70)	398 (15.67)	610 (24.02)	85 (3.35)	27 (1.06)	152 kg / 334 lb	CGA
EPT-4080	400 (15.75)	802 (31.57)	398 (15.67)	810 (31.89)	85 (3.35)	27 (1.06)	203 kg / 446 lb	CGA
EPT-40100	400 (15.75)	1002 (39.45)	398 (15.67)	1010 (39.76)	85 (3.35)	27 (1.06)	254 kg / 558 lb	CGA
EPT-5060	500 (19.69)	602 (23.70)	498 (19.61)	610 (24.02)	85 (3.35)	27 (1.06)	190 kg / 418 lb	CGA
EPT-5080	500 (19.69)	802 (31.57)	498 (19.61)	810 (31.89)	85 (3.35)	27 (1.06)	254 kg / 558 lb	CGA
EPT-50100	500 (19.69)	1002 (39.45)	498 (19.61)	1010 (39.76)	85 (3.35)	27 (1.06)	317 kg / 697 lb	CGA
EPT-50120	500 (19.69)	1202 (47.32)	498 (19.61)	1210 (47.64)	85 (3.35)	27 (1.06)	380 kg / 837 lb	CGA
EPT-6080	600 (23.62)	802 (31.57)	598 (23.54)	810 (31.89)	85 (3.35)	27 (1.06)	304 kg / 669 lb	CGA
EPT-60100	600 (23.62)	1002 (39.45)	598 (23.54)	1010 (39.76)	85 (3.35)	27 (1.06)	336 kg / 738 lb	CGA
EPT-60120	600 (23.62)	1202 (47.32)	598 (23.54)	1210 (47.64)	85 (3.35)	27 (1.06)	456 kg / 1004 lb	CGA

Unit: mm(in)

EMT

BRISC®



• Waved pole pitch electromagnetic chuck

Use:

For versatile clamping on a broad range of workpiece sizes

Features:

- Pole pitch 11 / 14 / 20 / 25 / 36 mm
- Highest uniform clamping force up to 160 N/cm²
- Less than 5°C chuck temperature rise after 1 hour working
- Mono block housing for maximum stability
- Low current with minimum power consumption
- Low profile for more wheel head clearance
- Full surface magnetic power

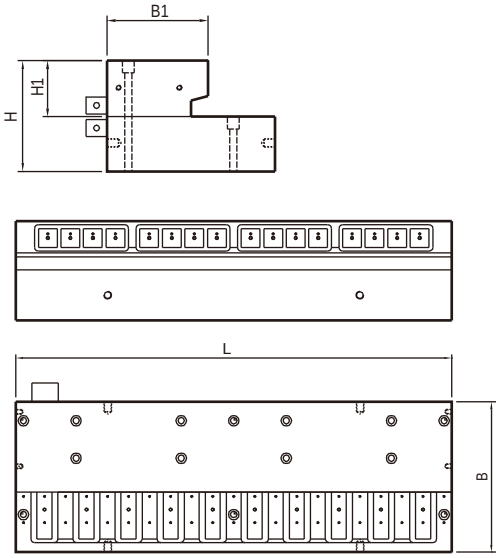
For Hard Steel or High Carbon Steel

Model	Width(B)	Length(L)	Base Width(B1)	L1	Height(H)	H1	Voltage	Current	Net Weight
EMT-3030	300 (11.81)	302 (11.89)	298 (11.73)	310 (12.20)	85 (3.35)	27 (1.06)	DC 110 V	0.7A	57 kg / 125 lb
EMT-3040	300 (11.81)	402 (15.83)	298 (11.73)	410 (16.14)	85 (3.35)	27 (1.06)	DC 110 V	1.0A	76 kg / 167 lb
EMT-3060	300 (11.81)	602 (23.70)	298 (11.73)	610 (24.02)	85 (3.35)	27 (1.06)	DC 110 V	1.2A	114 kg / 251 lb
EMT-3080	300 (11.81)	802 (31.57)	298 (11.73)	810 (31.89)	85 (3.35)	27 (1.06)	DC 110 V	1.3A	152 kg / 334 lb
EMT-4040	400 (15.75)	402 (15.83)	398 (15.67)	410 (16.14)	85 (3.35)	27 (1.06)	DC 110 V	1.4A	101 kg / 222 lb
EMT-4060	400 (15.75)	602 (23.70)	398 (15.67)	610 (24.02)	85 (3.35)	27 (1.06)	DC 110 V	2.0A	152 kg / 335 lb
EMT-4080	400 (15.75)	802 (31.57)	398 (15.67)	810 (31.89)	85 (3.35)	27 (1.06)	DC 110 V	2.7A	203 kg / 446 lb
EMT-40100	400 (15.75)	1002 (39.45)	398 (15.67)	1010 (39.76)	85 (3.35)	27 (1.06)	DC 110 V	2.8A	254 kg / 558 lb
EMT-5060	500 (19.69)	602 (23.70)	498 (19.61)	610 (24.02)	85 (3.35)	27 (1.06)	DC 110 V	1.9A	190 kg / 418 lb
EMT-5080	500 (19.69)	802 (31.57)	498 (19.61)	810 (31.89)	85 (3.35)	27 (1.06)	DC 110 V	3.0A	254 kg / 558 lb
EMT-50100	500 (19.69)	1002 (39.45)	498 (19.61)	1010 (39.76)	85 (3.35)	27 (1.06)	DC 110 V	3.3A	317 kg / 697 lb
EMT-50120	500 (19.69)	1202 (74.32)	498 (19.61)	1210 (47.64)	85 (3.35)	27 (1.06)	DC 110 V	3.8A	380 kg / 836 lb
EMT-6080	600 (23.62)	802 (31.57)	598 (23.54)	810 (31.89)	85 (3.35)	27 (1.06)	DC 110 V	3.5A	304 kg / 669 lb
EMT-60100	600 (23.62)	1002 (39.45)	598 (23.54)	1010 (39.76)	85 (3.35)	27 (1.06)	DC 110 V	3.4A	336 kg / 738 lb
EMT-60120	600 (23.62)	1202 (74.32)	598 (23.54)	1210 (47.64)	85 (3.35)	27 (1.06)	DC 110 V	4.0A	456 kg / 1004 lb

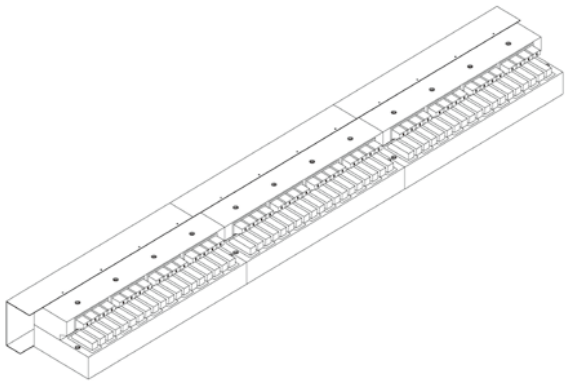
Unit: mm(in)

EPK

MILLING



• Rail milling magnetic clamping system



Use:

Clamping for machining on rail crossings and switches

Features:

- Highest clamping force up to 180 kN/m
- No electricity needed for the system when machining
- Strong and uniform clamping, no vibrations when machining
- Quick clamping with high efficiency
- Complete machining in one set up
- Without stray magnetic fields and no magnetization of the tool
- Modules can be used jointly

Model	Width(B)	Length(L)	Height(H)	H1	B1	Net Weight
EPK40116	400 (15.75)	1160 (45.67)	268 (10.55)	134 (5.28)	240 (9.45)	734 kg / 1616 lb

Unit: mm(in)

CFT-3 / CFT-4

BRISC®

CFT-3

• Clamping force tester

Use:

For measuring the clamping force on magnetic chucks

Features:

The required pressure can be generated by turning the screw clockwise with an Allen key. The integrated pressure piston is moved far enough so that the measuring cylinder is lifted off the magnet plate when the clamping force limit is reached.

- Magnet on the bottom of the tester, easily attaches to sides and bottom of test objects, no need to hold during testing
- Digital display with peak value capture function
- Display rotates 330 degrees for easy observation
- Multiple units available
- Weight 2.0 kg
- Outer diameter 52 mm

CFT-4

• Thin plate clamping force tester

Use:

For measuring the clamping force for holding 3mm thick sheet metal

Features:

The required pressure can be generated by turning the screw clockwise with an Allen key. The integrated pressure piston is moved far enough so that the measuring cylinder is lifted off the magnet plate when the clamping force limit is reached.

- For measuring clamping force with 3mm sheet metal
- Digital display with peak value capture function
- Display rotates 330 degrees for easy observation
- Multiple units available
- Weight 2.0 kg
- Outer diameter 52 mm

CUA / CUD / CUT

BRISC®

CUA-H

MILLING

Model	Length	Width	Height	Net weight	Box
CUA-H	300 (11.81)	200 (7.87)	105 (4.13)	1.6 kg / 3.5 lb	Plastic
CGA-H	300 (11.81)	200 (7.87)	105 (4.13)	1.6 kg / 3.5 lb	Plastic

Voltage	Max. Pole No. / channel	Pole size
220 V	56	50 x 50 mm
400 / 480 V	84	50 x 50 mm

Voltage	Max. Pole No. / channel	Pole size
220 V	36	70 x 70 mm
400 / 480 V	48	70 x 70 mm

• One channel control unit

Use:
Electro-permanent magnetics modules for milling / grinding

Features:
- Multiple input voltage choices
- Micro computer controls self testing and magnetizing detection
- Good for both 50 Hz and 60 Hz
- PLC connection built in
- Safe and reliable
- Including 5 meters power cable and 5 meters discharge cable

CUD-H

MILLING

Model	Length	Width	Height	Net weight	Box
CUD-H	300 (11.81)	200 (7.87)	105 (4.13)	2.0 kg / 4.4 lb	Plastic
CGD-H	300 (11.81)	200 (7.87)	105 (4.13)	2.0 kg / 4.4 lb	Plastic

Voltage	Max. Pole No. / channel	Pole size
220 V	56	50 x 50 mm
400 / 480 V	84	50 x 50 mm

Voltage	Max. Pole No. / channel	Pole size
220 V	36	70 x 70 mm
400 / 480 V	48	70 x 70 mm

• Two channels control unit

Use:
Electro-permanent magnetics modules for milling / grinding

Features:
- Multiple input voltage choices
- Micro computer controls self testing and magnetizing detection
- Good for both 50 Hz and 60 Hz
- PLC connection built in
- Safe and reliable
- Including 5 meters power cable and 5 meters discharge cable

CUT-A (With channel selection function)

MILLING

Model	Length	Width	Height	Net weight	Box
CUT-A	325 (12.80)	170 (6.69)	90 (3.54)	3.4 kg / 7.5 lb	Metal

Voltage	Max. Pole No. / channel	Pole size
220 V	56	50 x 50 mm
400 / 480 V	84	50 x 50 mm

• Two channels control unit

Use:
Electro-permanent magnetics modules for milling

Features:
- Multiple input voltage choices
- Micro computer controls self testing and magnetizing detection
- Good for both 50 Hz and 60 Hz
- PLC connection built in
- Safe and reliable
- Including 5 meters power cable and 5 meters discharge cable
- With channel selection function

Voltage	Max. Pole No. / channel	Pole size
220 V	36	70 x 70 mm
400 / 480 V	48	70 x 70 mm

CUF / CUS / CUG / CED / RMC / RET

BRISC®

CUF / CUS / CUE

MILLING

● Multi-channels control unit

Use:

Selectable channel multi-channel controller for electro-permanent magnets

Features:

- Multiple input voltage choices
- Micro computer controls self testing and magnetizing detection
- Good for both 50 Hz and 60 Hz
- PLC connection built in
- Safe and reliable
- With channel selection function
- Can be used jointly

Model	Length	Width	Height	Net weight	Channels
CUF	383 (15.08)	289 (11.38)	129 (5.08)	8 kg / 17.6 lb	4
CUS	383 (15.08)	289 (11.38)	129 (5.08)	8 kg / 17.6 lb	6
CUE	383 (15.08)	289 (11.38)	129 (5.08)	8 kg / 17.6 lb	8

CED-ET

GRINDING

● Control unit for electromagnetic chucks

Use:

Use with any electromagnetic chucks with input of 110/220 VAC and output 100 VDC and capacity of up to 500 watts

Features:

- External use design
- Strength adjustable
- Push button control allows easy selection of full, residual, variable, and release positions
- Automatic release cycle assures workpiece release, while freeing machine operators from manual demagnetizing operations
- Current sense and E-stop interlock with machine
- Up to 16 pole reversal programs

Model	Length	Width	Height	Net weight
CED-ET	280 (11.02)	230 (9.06)	110 (4.33)	2.8 kg / 6.17 lb

RMC-2

● Remote control

Use:

Remote control works with control units for electro-permanent magnetic chucks

Features:

- Small and compact
- With magnetic plate on the rear for ease of attachment

RET

● Touch screen control

Model	Length	Width	Height	Strength Adjustable	Channel Selection
RMC-2	136 (5.35)	66 (2.60)	55 (2.17)	Yes	No
RET	278 (10.95)	178 (7)	100 (3.94)	Yes	Yes

Junction Box

BRISC®

JB-1 (Four channels junction box)

Use:

Fast connections between chucks and control unit

Features:

- Die cast aluminum box
- IP65 water resistant
- 7 pins quick connectors makes connection and disconnection much easier

Length	Width	Height	Weight
200 (7.87)	160 (6.30)	100 (3.94)	2.3 kg/5.1 lbs

unit: mm(in)

JB-2 (Eight channels junction box)

Use:

Fast connections between chucks and control unit

Features:

- Die cast aluminum box
- IP65 water resistant
- 7 pins quick connectors makes connection and disconnection much easier
- HARTING connector available on request

Length	Width	Height	Weight
280 (11.02)	230 (9.06)	110 (4.33)	4.5 kg/9.9 lbs

unit: mm(in)

JB-8 (Four channels junction box)

Use:

Fast connections between chucks and control unit

Features:

- Die cast aluminum box
- IP65 water resistant
- 7 pins quick connectors makes connection and disconnection much easier

Length	Width	Height	Weight
270 (10.62)	150 (5.90)	90 (3.54)	2.5 kg/5.5 lbs

unit: mm(in)

JB-9 (Eight channels junction box)

Use:

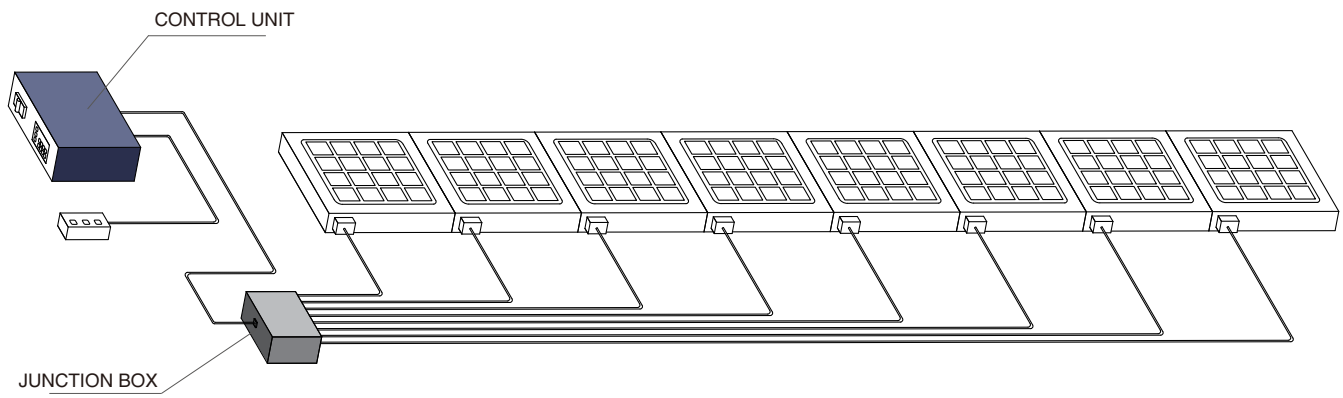
Fast connections between chucks and control unit

Features:

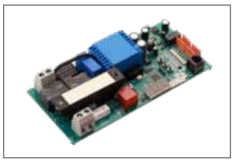
- Die cast aluminum box
- IP65 water resistant
- 7 pins quick connectors makes connection and disconnection much easier
- HARTING connector available on request

Length	Width	Height	Weight
330 (11.81)	230 (9.06)	180 (7.08)	6.2 kg/13.7 lbs

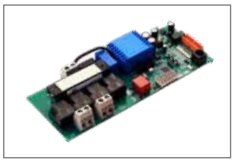
unit: mm(in)



Spare Parts

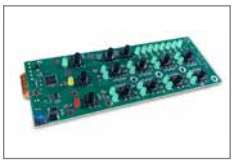


CUA-PCB CUA
electro board of CUA



CUD-PCB CUD
electro board of CUD

CB-1
connection box
Φ26 mm



CUE-2 CUE
electro board of CUE

CUZ-3 CUE
electro board of CUE

CUE-4 CUE
electro board of CUE

QCS-4MS CUA
quick control cable
connector cable end

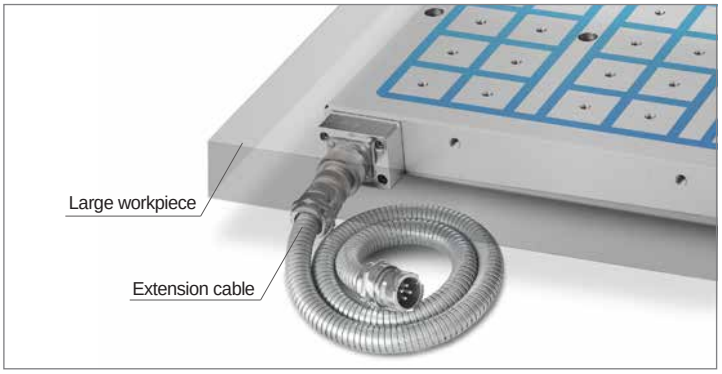
QCS-5MS CUD
quick control cable
connector cable end

QCS-5FP CUD
quick connector chuck
end

QCS-4FP CUA
quick connector chuck
end

CCW 1/2 -425 CUD
5 meters cable with
metal protection hose

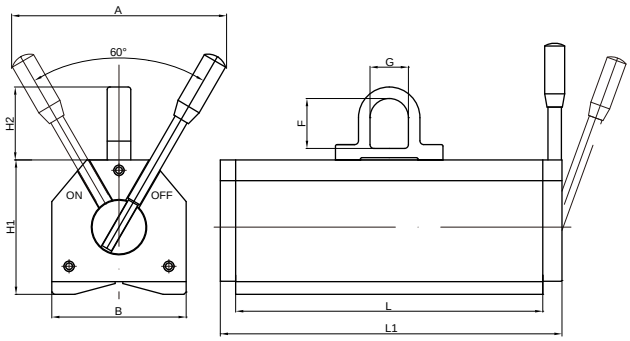
CCW 1/2 -325 CUA
5 meters cable with
metal protection hose



DXF-1 CUA
1 meter extension cable
3x2.5

DXG-1 CUD
1 meter extension cable
4x2.5

PLN



• Permanent Lifter

Use:

permanent lifting magnet especially for small room space or very high frequency mag and demag

Features:

- Suitable to lift plates and rounds
- Strong clamping force while small and compact in size
- Mag and demag switch mechanism can be handled easily as travel angle is small
- Switch mechanism can also prevent the accidental demag
- Large clamping area makes stable holding
- Lifting eye is replaceable which can be good for special application

Applications:

Specifications

Model	Size	Safe Working Load	A	B	L	L1	H1	H2	F	G	Net Weight
PLN	150	150 kg / 330 lb	200 (7.87)	90 (3.54)	132 (5.2)	162 (6.38)	90 (3.54)	53 (2.09)	36 (1.42)	28 (1.1)	8 kg / 17.6 lb
PLN	300	300 kg / 660 lb	200 (7.87)	90 (3.54)	232 (9.13)	262 (10.31)	90 (3.54)	70 (2.76)	50 (1.97)	40 (1.57)	13 kg / 28.6 lb
PLN	600	600 kg / 1320 lb	280 (11.02)	136 (5.35)	270 (10.63)	300 (11.81)	136 (5.35)	95 (3.74)	65 (2.56)	50 (1.97)	36 kg / 79.2 lb
PLN	1000	1000 kg / 2200 lb	350 (13.78)	175 (6.89)	400 (15.75)	447 (17.60)	175 (6.89)	95 (3.74)	65 (2.56)	50 (1.97)	70 kg / 154 lb

mm (inch)

Load Capabilities

Model	Size	Load Plate Max	Plate Min Thickness	Plate Max Length	Load Round Max	Round Min Thickness	Round Max Diameter
PLN	150	150 kg / 330 lb	15 (0.59)	1000 (39.37)	60 kg / 132 lb	6 (0.24)	150 (5.9)
PLN	300	300 kg / 660 lb	20 (0.79)	2000 (78.74)	120 kg / 264 lb	10 (0.39)	180 (7.09)
PLN	600	600 kg / 1320 lb	25 (0.98)	2500 (98.43)	240 kg / 528 lb	15 (0.59)	250 (9.84)
PLN	1000	1000 kg / 2200 lb	40 (1.57)	3000 (118.11)	400 kg / 880 lb	25 (0.98)	280 (11.02)

mm (inch)

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Technical Changes
The data and illustrations in this catalogue are not binding and only provide an approximate description. We reserve the right to make changes to the product delivered compared with the data and illustrations in this catalogue, e.g. in respect of technical data, design, fittings, material and external appearance.

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