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# PRODUCT CATALOG

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MPI Rare Earth Surface Grinder Chuck
MPI Double Rare Earth Round Chuck
MPI Double Ceramic Round Chuck
MPI Rare Earth Round Chuck
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MPI Rare Earth Round Chuck



Le	gends				
	Milling	S	Lifting	EP	Electropermanent
0	Grinding	ſſſŊ	Demagnetization	P	Permanent
$\bigcirc$	Circular grinding	44	EDM		

Turning

Accessories

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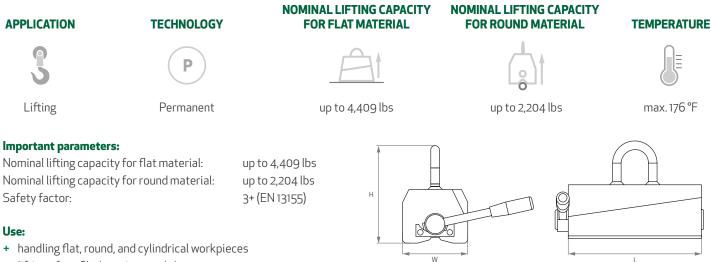
# HANDLING AND LIFTING

Make use of force and easy control of lifting magnets. Magnetic tools replace ropes, chains or clamps during handling and lifting. Operations will be more efficient, save manpower and enhance safety when handling steel products and large pieces of raw iron in smelting works and steel works, workshops and metallurgical material warehouses.



#### When to choose permanent MPI Lifting Magnet:

The permanent MPI Lifting Magnet magnet is widely used for handling ferromagnetic materials in the metal industry – in workshops, on building sites, in warehouses for semi-finished steel products, when handling steel workpieces, tools, sheets, metal profiled sections, tubes, and bars.



+ lifting of profiled sections and sheets

Model	W (in)	L (in)	H (in)	<b>Ø of</b> eye (in)	<b>Weight</b> (lbs)	Tested lifting capacity (lbs)	Workload limit flat materials (lbs)	Workload limit round materials (lbs)	<b>Ø min/max</b> (in)
LM-0150-REN	2.4	3.7	4.7	0.4	6.6	992	330	143	2/4
LM-0300-REN	3.9	6	7.1	0.6	22.1	1,984	661	330	2.4/7.8
LM-0600-REN	4.7	9.7	7.1	0.8	46.3	3,968	1,322	661	2.5/10.6
LM-1000-REN	5.8	12.1	9.3	0.8	88.2	7,054	2,204	1,102	4/11.8
LM-1500-REN	6.5	14.7	10.8	0.8	152.1	10,361	3,306	1,653	6/13.7
LM-2000-REN	6.5	18.8	10.8	0.8	198.4	13,668	4,409	2,204	6/13.7

### INSTRUCTIONS FOR USING THE WORKLOAD LIMIT TABLE FOR PLATES AND ROUNDS ON PAGE 6

- 1. Select your MPI Lifting Magnet model.
- 2. Select the surface finish and condition (clean and smooth, rusty or hot, irregular or rough) that corresponds to you plate or round bar. If your surface roughness exceeds the maximum, do not make the lift.

#### **Plates:**

- a. Select the plate thickness from the table. If your plate thickness is not listed, select the next lower value from the table. Never lift plates thinner than the minimum listed in the table.
- b. Check that the plate you are attempting to lift is shorter than the maximum length (L) and narrower than the maximum width (W) listed in the table under the heading "Max. dimensions" for the thickness of the selected plate.

#### Round bars:

- Be sure the diameter of the bar is between the minimum and maximum diameter as listed in the table. Never lift bars outside this range.
- **b.** Be sure that the bar is less than the maximum length (L) max listed in the table.

**3.** Determine the maximum safe lifting capacity of the magnet based on your material thickness.

#### Plates:

a. Select the maximum safe lifting value from the table for the minimum length (L) and minimum width (W) from one of the two choices. Do not make the lift if your plate is less than these minimum values.

#### Round bars:

- a. The maximum safe lifting value is shown in the table
- 4. If you are not lifting AISI 1020 steel, determine the reduction in safe lifting capacity by the percentage factor for your material from the Material Reduction Factor Table shown below. For example, if you are lifting cast iron, multiply the maximum safe lifting capacity determined in Step 3 above for steel by 45% to get the maximum safe lifting capacity for your lift of cast iron.
- **5.** Finally, determine the weight of the plate or round bar you are attempting to lift to be sure it is less than the maximum safe lifting capacity determined in Step 4. The weight can be calculated using the density of 0.283 lbs per cubic inch for steel or by use of a commonly available on-line weight calculator.

### MATERIAL REDUCTION FACTOR TABLE (STEP 4)

The Workload Limit Table for Conditions and Finishes on Page 6 is for AISI 1020 steel. Other materials are less magnetic. Any increase in alloy content will reduce the safe lifting capacity of the magnet. Use these percentage factors for materials other than AISI 1020 steel:

Material	Percentage Factor
Cast Steel	90%
3% Silicon Steel	80%
AISI 1095 Steel	70%
416 Stainless Steel	50%
Cast Iron (non-chilled)	45%
Pure Nickel	10%

Never attempt to lift non-magnetic metals like 304/316 stainless, aluminum, copper, lead, tin, titanium and zinc, and alloys such as brass and bronze.

### WORKLOAD LIMIT FOR PLATES AND ROUNDS (AISI 1020 STEEL)\*

L-Length (in) W-Width (in) H+Height (in)     Clean and smooth ground surface. Air gap-C0.04 in Lx W (in)     Rusty and hot rolled surface Air gap 0.004 - 0.012 in       Max. dimensions Lx W (in)     WLL (lbs) for plate sizes as below     Max. dimensions Lx W (in)     WLL (lbs) for plate sizes as below     Max. dimensions       Thickness (n)     L-8     L-2-29     L-8     L-2-29       0.98     -     330     265     -     187     105     -       0.98     -     330     265     -     187     105     -       0.99     79×20     265     165     59×20     143     110     47×22       0.06     98×20     265     165     59×20     143     100     47×22       Diameter     0.06     98×20     143     Lmax/9     100     Lst2       Diameter     0.2-0.4     Lmax/98     143     Lmax/9     100     Lst2       0.39     98×39     540     353     55×39     33     265     39×39       0.44     Low     W>12     W-6-11.9     W>12     <	SURFACE CONDITIONS AND FINISHES									
H+Height (in)     Max. dimensions Lx W(in)     Max. dimensions sizes as below     Max. dimensions Lx W(in)     Max. dimax. dimensions Lx W(in)     Max. dimen	rregular and ro Air gap 0.012									
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Diameter\$\overline{0}2-\overline{0}4\$Lmax.98\$\overline{1}43\$Lmax.79\$\overline{1}10\$Lmax.95\$\overline{1}164\$\overline{1}164\$<	W>8	W=4-7.9								
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Diameter02-04Lmax.98-143Lmax.99-110Lmax.95Image: Second secon	66	33								
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LINE     Image: Section of the	3	77								
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W>16     W=10-15.9     W>16     W=10-15.9       >=1.18     -     1322     1146     -     948     883     -       0.79     78×59     1025     838     78×49     860     663     49×33       0.59     88×59     948     529     90×49     750     441     70×33       0.39     98×59     628     247     94×49     529     220     86×33       0.31     94×59     496     198     90×49     397     154     78×33	3	165								
Normal Section     >=1.18     -     1322     1146     -     948     883     -       0.79     78×59     1025     838     78×49     860     683     49×33       0.59     88×59     948     529     90×49     750     441     70×33       0.39     98×59     628     247     94×49     529     220     86×33       0.31     94×59     496     198     90×49     397     154     78×33	L>16	L=5 - 15,9								
Normal     >=1.18     -     1322     1146     -     948     883     -       0.79     78×59     1025     838     78×49     860     683     49×3       0.59     88×59     948     529     90×49     750     441     70×33       0.39     98×59     628     247     94×49     529     220     86×33       0.31     94×59     496     198     90×49     397     154     78×33       0.24     86×59     342     132     78×49     265     99     78×33	W>16	W=10 - 15.9								
No.79     78×59     1025     838     78×49     860     683     49×3       0.59     88×59     948     529     90×49     750     441     70×33       0.39     98×59     628     247     94×49     529     220     86×33       0.31     94×59     496     198     90×49     397     154     78×33       0.24     86×59     342     132     78×49     265     99     78×33	595	573								
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Line     0.39     98×59     628     247     94×49     529     220     86×3       0.31     94×59     496     198     90×49     397     154     78×33       0.24     86×59     342     132     78×49     265     99     78×33	485	352								
0.31     94×59     496     198     90×49     397     154     78×39       0.24     86×59     342     132     78×49     265     99     78×39	408	187								
<b>b</b> 0.24 86×59 342 132 78×49 265 99 78×39	287	121								
	220	77								
Diameter 02.5-010.6 Lmax.157 661 Lmax.138 529 Lmax.1	3	352								
Thickness(in)     L>20     L=6-19.9     L>20     L=6-19.9	L>19,7	L=6 - 19.9								
► ₩>20 ₩=12-19.9 ₩>20 ₩=12-19.9	W>19,7	W=12 - 19.9								
No.     No. <td>1433</td> <td>1422</td>	1433	1422								
1.18 96×59 1896 1565 78×59 1609 1367 75×49	1246	1135								
0.98 112×59 1830 1179 94×59 1554 1047 88×4	1212	903								
0.79 126×59 1642 805 108×59 1411 705 102×4	) 1124	639								
0.59 130×59 1102 474 114×59 981 430 110×4	838	386								
<b>5</b> 0.39 108×59 584 231 100×59 529 209 104×4	9 441	187								
Diameter 04-011.8 Lmax.177 1102 Lmax.157 882 Lmax.1	7	661								
Thickness (in) L>31,5 L=7-31.4 L>31,5 L=7-31.4	L>31,5	L=7-31.4								
W>31.5     W=16-31.4     W>31.5     W=16-31.4       N=315     N=306     2310     131     2666	W>31,5	W=16 - 31.4								
<b>₩ 3</b> .15 - 3306 3219 - 3131 2646 -	2249	2160								
No.     No. <td></td> <td>1984</td>		1984								
<b>2 5</b> 1.18 137×47 2161 948 128×47 1984 860 98×5	1720	772								
<b>L D</b> 0.79 138×55 1676 683 118×63 1653 639 98×69	1532	595								
0.59 118×59 1191 430 118×59 1168 397 98×55		353								
Z     Diameter     Ø6-Ø13.7     Lmax.197     1653     Lmax.177     1543     Lmax.17	8	1323								
Thickness (in) L>31,5 L=7-31.4 L>31,5 L=7-31.4	L>31,5	L=7 - 31.4								
Line W>31,5 W=20-31.4 W>31,5 W=20-31.4	W>31,5	W=20 - 31.4								
→=3.15 - 4409 4299 - 3638 3527 -	2866	2756								
1.97 128×59 4299 3527 98×59 3527 2976 78×59	2756	2535								
1.18 138×59 2976 1212 128×59 2535 1102 98×59	2205	992								
<b>L</b> 0.79 138×79 2425 881 118×79 2205 827 98×79		772								
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Diameter     Ø6-Ø13.7     Lmax.197     2204     Lmax.177     1984     Lmax.1		441								

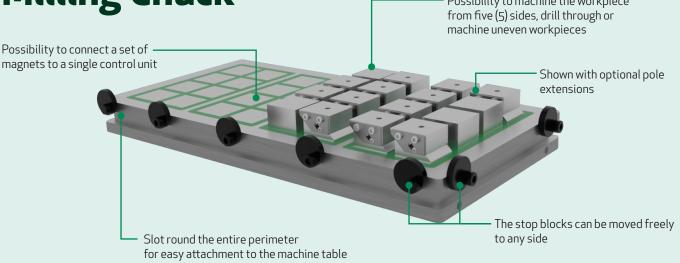
### DO NOT LIFT PLATES THINNER THAN INDICATED IN THE CHART. WHEN LIFTING TUBES WITH A THIN WALL, THE LENGTH MAY BE THE LIMITING FACTOR.

\*WLL= maximum working load designed for certain lifting magnet capacity, with respect to minimal safety factor 3:1.

# MAGNETIC CHUCKS

Accelerate machining ferromagnetic materials. Magnetic chucks are modern devices replacing vises, mechanical clamps and fixtures. Instantaneously clamp and unclamp machined components. Accessible from five (5) sides, the magnetic chuck does not damage the product and reduces production costs.

## MPI ElectroPermanent Mastermill Milling Chuck



#### When to choose MPI ElectroPermanent Mastermill Milling Chuck:

The MPI ElectroPermanent Mastermill Milling Chuck is a versatile magnetic chuck for milling and drilling of both small and large workpieces. Using pole extensions, the material can be machined from five (5) sides, drilled through, and uneven material can be machined as well. For optimum holding force, the required workpiece thickness is at least 0.47 in.

#### APPLICATION

#### TECHNOLOGY



HOLDING FORCE	

170 N/cm<sup>2</sup>

#### POLES

Square

	6
50	1
No.	

Milling



Electropermanent



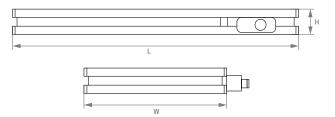
from 11.8 x 19.3 in

Model	Number of poles	W (in)	L (in)	H (in)	<b>Weight</b> (lbs)
MM-50-300490-EP	24	11.8	19.3	2	108
MM-50-300600-EP	32	11.8	23.6	2	134.5
MM-50-300800-EP	40	11.8	31.5	2	180.8
MM-50-300900-EP	48	11.8	35.4	2	202.8
MM-50-420490-EP	36	16.5	19.3	2	154.3
MM-50-420600-EP	48	16.5	23.6	2	189.6
MM-50-420800-EP	60	16.5	31.5	2	251.3
MM-50-420900-EP	72	16.5	35.4	2	282.2
MM-50-480600-EP	56	18.9	23.6	2	213.9
MM-50-480800-EP	70	18.9	31.5	2	286.6
MM-50-480900-EP	84	18.9	35.4	2	321.9
MM-50-480990-EP	84	18.9	39	2	354.9
MM-50-580800-EP	80	22.8	31.5	2	346.1
MM-50-580900-EP	96	22.8	35.4	2	390.2

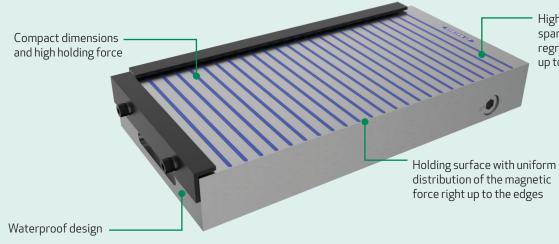
Holding force:	170 N/cm²
Min. workpiece size:	2 x 4.3 x 0.5 in
Poles:	Square
Regrinding limit:	0.2 in
Pole size:	2 x 2 in

#### Use:

- + machining of uneven parts up to five (5) sides
- + clamping of a wide range of workpiece sizes during milling
- + clamping of large forms, castings, blocks, structures, etc. during drilling operations
- + rough grinding of large parts



# **MPI Rare Earth Compact Milling Chuck**



High use value and long life span due to to an unparalleled regrinding limit for the top plate up to 0.4 in

#### When to choose MPI Rare Earth Compact Milling Chuck:

The MPI Rare Earth Compact Milling Chuck is used for milling, drilling or heavy grinding of relatively small workpieces that require a significant holding force and stability required for clamping.

#### **APPLICATION**



(P)

**TECHNOLOGY** 

Milling

Permanent

#### Important parameters:

Holding force: Min.workpiece size: Poles: Regrinding limit: Pole pitch: 160 N/cm<sup>2</sup> 0.6 x 0.6 x 0.2 in Transverse 0.4 in T0.59 0.43 +0.16 in (steel/epoxy)

W (in)	L (in)	H (in)	<b>Weight</b> (lbs)
5.9	9.8	2	30.9
5.9	17.7	2	55.1
7.9	15.8	2.1	81.6
7.9	19.7	2.1	90.4
7.9	23.6	2.1	108
9.8	15.8	2.4	99.2
11.8	19.7	2.4	147.7
11.8	23.6	2.4	178.6
12.6	12.6	1.9	81.6
	(in) 5.9 5.9 7.9 7.9 7.9 9.8 11.8 11.8	(in) (in)   5.9 9.8   5.9 17.7   7.9 15.8   7.9 19.7   7.9 23.6   9.8 15.8   11.8 19.7   11.8 23.6	(in)(in)(in)5.99.825.917.727.915.82.17.919.72.17.923.62.19.815.82.411.819.72.411.823.62.4

#### CHUCK DIMENSION



from 5.9 x 9.8 in

.....



POLES

160 N/cm²

HOLDING FORCE

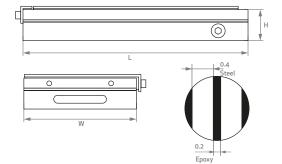
Transverse

#### **Additional information:**

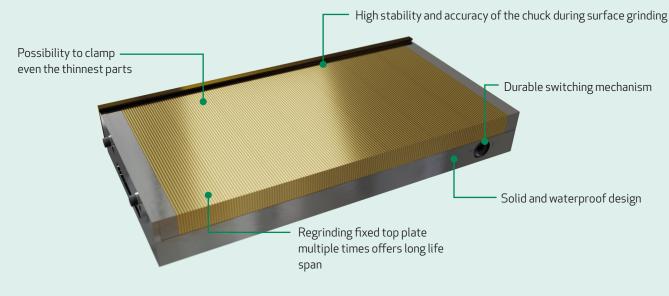
+ available also with mounted top plate with steel and brass lamellae

#### Use:

+ milling, drilling, planing, heavy grinding



# **MPI Rare Earth Surface Grinder Chuck**



#### When to choose MPI Rare Earth Surface Grinder Chuck:

The MPI Rare Earth Surface Grinder Chuck offers exceptional holding force combined with high quality and favorable pricing. It is a simple, low maintenance clamping device primarily used as an accessory to grinders intended for precise surface grinding of very small, thin parts up to large workpieces and electrical discharge machining.

APPLICATION	TECHNOLOGY			CHUCK	DIMENSION	HOLDING FORCE	POLES
•	P					<u>+</u> +++	
Grinding Permanent		from 3.9 x 6.9 in		100 N/cm <sup>2</sup>	Transverse		
Model	<b>W</b> (in)	L (in)	H (in)	<b>Weight</b> (lbs)	<b>Important para</b> Holding force: Min. workpiece	100 N/cm <sup>2</sup>	
SGC-100175-REN	3.9	6.9	1.9	15.4	Regrinding limi	t: 0.3 in	
SGC-100250-REN	3.9	9.8	1.9	22.1	Pole pitch:	T0.08 0.06 + 0.02 in (	steel/brass)
SGC-130255-REN	5.1	10.0	1.9	28.7	Use:		
SGC-150250-REN	5.9	9.8	2	33.1	-	ace grinding of small and thin, as we	ll as large
SGC-150300-REN	5.9	11.8	2	39.7	parts + also suitable	e for electrical discharge machining	(FDM)
SGC-150350-REN	5.9	13.8	2	48.5			
SGC-150400-REN	5.9	15.8	2	55.1	-	L	
SGC-150450-REN	5.9	17.7	2	61.7			
SGC-200400-REN	7.9	15.8	2	77.2		$\bigcirc$	
SGC-200450-REN	7.9	17.7	2	81.6			
SGC-200500-REN	7.9	19.7	2	90.4			

w

2

4.7

23.6

23.6

108

198.4

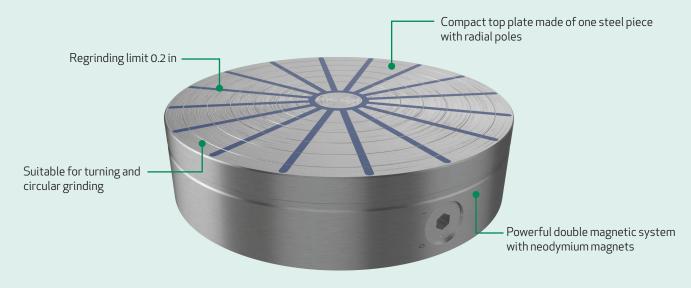
SGC-200600-REN

SGC-300600-REN

7.9

11.8

# **MPI Double Rare Earth Round Chuck**



#### When to choose MPI Double Rare Earth Round Chuck:

The MPI Double Rare Earth Round Chuck is primarily designed for turning and grinding round and ring-shaped workpieces. The top plate with radial poles offers the possibility to machine the front, inner and outer diameter of the workpiece in one operation.

#### APPLICATION

Turning

#### TECHNOLOGY

Permanent



from 5.1 in



140 N/cm<sup>2</sup>

HOLDING FORCE

POLES



Radial

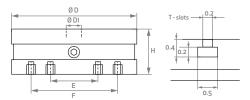
Model	D (in)	H (in)	<b>D1</b> (in)	E (in)	F (in)	Weight (lbs)
RC-130-REN	5.1	2.2	2	-	3.9	11
RC-150-REN	5.9	2.2	2	3.1	4.7	16.1
RC-200-REN	7.9	2.2	2.4	4.3	7.1	28.7
RC-250-REN	9.8	2.8	3.2	5.5	8.7	55.1
RC-300-REN	11.8	2.9	5.9	7.1	10.2	81.6
RC-350-REN	13.8	2.9	6.7	8.7	11.8	108
RC-400-REN	15.8	2.9	7.9	10.2	13.4	149.9
RC-500-REN	19.7	3.1	7.9	11.8	15.8	240.3
RC-600-REN	23.6	3.1	9.8	13.8	17.7	379.2
RC-700-REN	27.6	3.1	9.8	13.8	17.7	515.9
RC-800-REN	31.5	4.3	13.8	15.8	27.6	925.9

#### Important parameters:

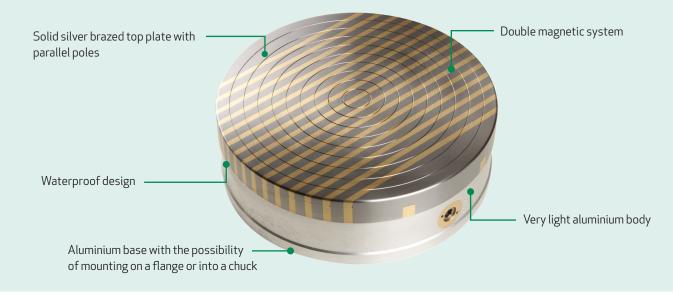
Application:	Turning, circular grinding
Min. workpiece limit:	1.4 in
Regriding limit:	0.2 in

#### Use:

- + turning and grinding of round and ring-shaped workpieces
- + facing work, internal and external diameter machining is possible separately or in one operation



# **MPI Double Ceramic Round Chuck**



#### When to choose MPI Double Ceramic Round Chuck:

Due to its high holding force and watertight top plate, the MPI Double Ceramic Round Chuck is an indispensable tool during workpiece turning and circular grinding. The relatively small pole pitch and a low magnetic field make it suitable for thinner workpieces from 0.3 in or from 0.5 in depending on the chuck diameter or pole pitch.

### **APPLICATION**

Circular grinding

#### **TECHNOLOGY**



Permanent

#### Important parameters:

Application:	Circular grinding, turning
Technology:	Permanent
Min. workpiece size:	1.6 x 1.6 x 0.3 in
Regriding limit:	0.2 in
Pole pitch:	T0.5 0.3 + 0.2 in (steel/brass) or
	T0.7 0.5 + 0.2 in (steel/brass)

Model	<b>D</b> (in)	H (in)	F (in)	<b>D1</b> (in)	<b>Weight</b> (lbs)
RC-0200-CER	7.9	3.1	0.9	0.9	26.5
RC-0250-CER	9.8	3.1	0.9	0.9	37.5
RC-0300-CER	11.8	3.1	0.9	0.9	59.5
RC-0350-CER	13.9	3.1	0.9	0.9	88.2
RC-0400-CER	15.8	3.1	0.9	0.9	123.5
RC-0450-CER	17.7	4	0.9	0.9	172
RC-0500-CER	19.7	3.9	0.9	0.9	187.4



from 7.9 in

Use:



#### **HOLDING FORCE**

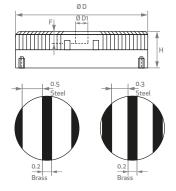
POLES

Parallel



140 N/cm<sup>2</sup>

- + clamping of workpieces during turning and surface grinding
- + facing and external/internal diameter machining is possible separately or in one operation



### **MPI Rare Earth Round Chuck**



#### When to choose MPI Rare Earth Round Chuck:

MPI Rare Earth Round Chuck stands out for its high clamping force and versatility in use. The combination of solid top plate with relatively fine parallel pole arrangement and possibility to continuously control the clamping force means very easy centering of the workpieces during turning or grinding operations.

DIAMETER

from 6.1 in

APPLICATION
$\bigcirc$

TECHNOLOGY



Circular grinding

Permanent

#### Important parameters:

Application:
Technology:
Min. workpiece size:
Regrinding limit:
Poles:

Circular grinding, turning Permanent 1 x 1 x 0.3 in 10 mm T0.5 0.3 + 0.2 in - steel/epoxy or T0.6 0.4 + 0.2 in - steel/epoxy

### Use:

+ clamping of workpieces during turning and circular grinding

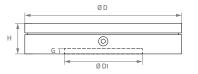
**HOLDING FORCE** 

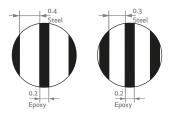
160 N/cm<sup>2</sup>

POLES

Parallel

Model	D (in)	H (in)	<b>G</b> (in)	<b>D1</b> (in)	<b>Weight</b> (lbs)
MAX-155-REN	6.1	2.2	0.2	2	19.8
MAX-200-REN	7.9	2.2	0.2	2.4	33.1
MAX-250-REN	9.8	2.2	0.2	3.2	48.5
MAX-300-REN	11.8	2.2	0.2	5.9	70.6
MAX-350-REN	13.8	2.2	0.2	6.7	94.8
MAX-400-REN	15.8	2.2	0.2	7.9	123.5





# DEMAGNETIZATION

Some materials retain a relatively high amount of magnetism after exposure to a magnetic field. To eliminate this, the component must be demagnetized by an alternating magnetic field which is gradually reduced to zero. MPI demagnetizers efficiently eliminate the residual magnetism in various materials and workpieces for a variety of dimensions.

# **MPI-TTD Series**



#### When to choose MPI Tabletop Demagentizer (TTD):

The MPI Tabletop Demagnetizer (TTD) is recommended for quick and simple demagnetization of flat and small cylindrical components. The TTD allows for manual demagnetization as well as easily integrated into a production line for instance under a conveyor belt.

#### APPLICATION



Demagnetization

#### Important parameters:

Application:
Technology:
Max. workpiece size:
Duty cycle:
Height of demagnetization field:
Voltage:

#### TECHNOLOGY

Demagnetization

Electro

20 % up to 1.6 in

15.8 x 11 in

110 V / 60 Hz

E

Electro

### ŧ

max. 15.8 x 11 in

**WORKPIECE SIZE** 

### DUTY CYCLE

#### E

# 



**HEIGHT OF** 

up to 1.6 in

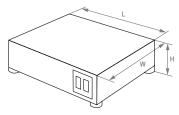
#### Use:

+ manual demagnetization of tools, dies, bearings, and other cylindrical and flat components

20 %

- + demagnetization under a conveyor belt on a production line
- + create larger working area by placing several demagnetizers side by side

Model	<b>W</b> (in)	L (in)	H (in)	<b>Weight</b> (lbs)
TTD-3	9.8	7.1	3.4	19.4
TTD-4	11	10.5	3.4	30.7
TTD-5	15.8	12.1	3.4	41.9



mpimagnet.com