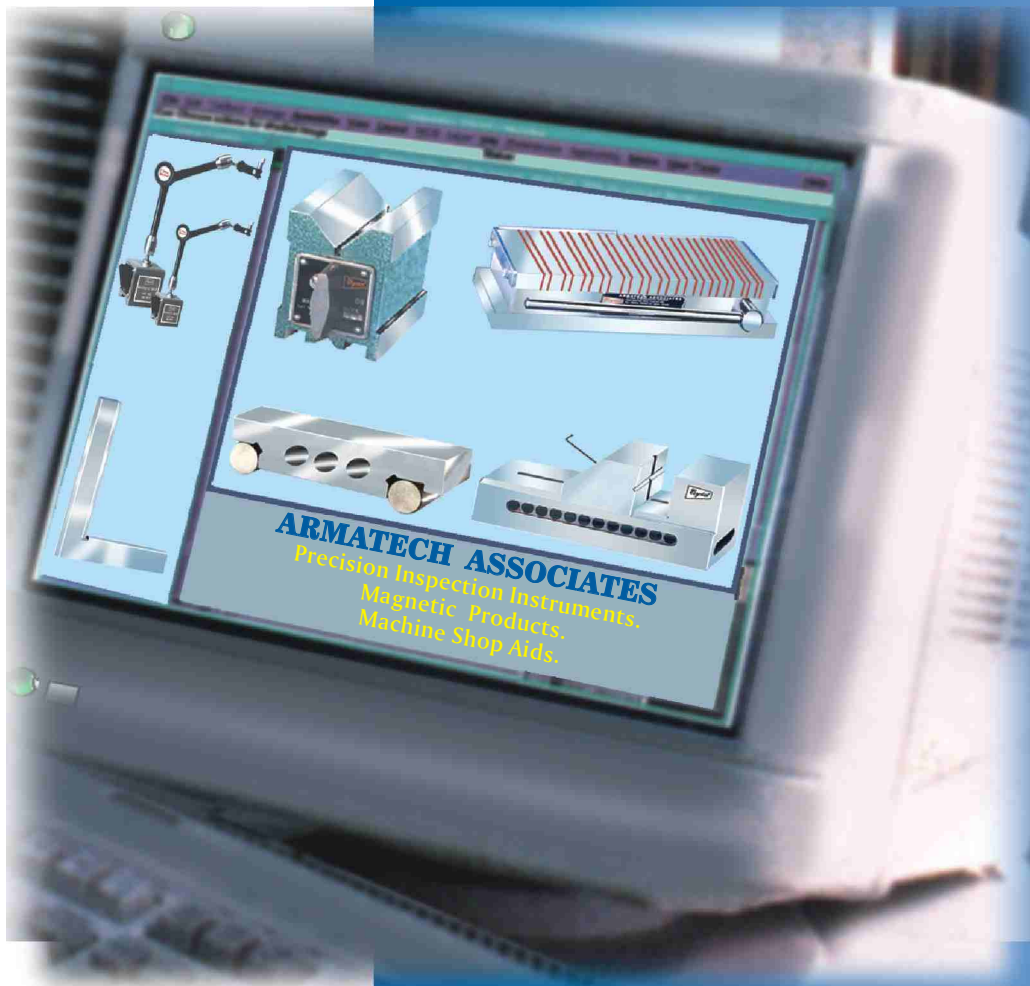


Product Profile

Crystal

- Magnetic Products.
- Precision Inspection Instruments.
- Machine Shop Aids.



Manufacturer of  Brand Products :

ARMATECH ASSOCIATES

An ISO : 9001-2000 Certified Company

Works : W-174 A, 'S' Block, M.I.D.C.,
Bhosari Industrial Estate,
P. O. B. No.1849, PUNE - 411 026.
INDIA.

Tel. : (020) 271 20 241 / 271 22 385
Fax. : (020) 271 22 386
email : armatech@gmail.com



Innovationthe key to our success

In 1980 at Armatech Associates we recognized the trends of Industrial needs with 18 Magnetic products. Redefining the organisational and technical processes, we increased our production range to Precision Inspection Instruments and various Machine Shop Aids. Visualizing the parallel to industrial customer production and assembly lines testing, we introduced series of Magnetic Bases, Magnetic Milling Chucks, Magnetic Lifters and Magnetic Sine Tables. Today, at the beginning of new millennium we have 1500 products supporting our customers manufacturing plants.

We have attained market leadership by providing innovative Engineering solutions to our customers in Automobile, Core industries, Heavy Industries, Tractor manufacturers, Defense, Space Technology & Robotics. We have built up high degree of customer confidence by infusing State of the art technology in product quality, performance and service. No wonder as ISO 9001-2000 came along the way.

All “ Crystal” brand Instruments are traceable to NABL , besides being periodically calibrated by metrological Laboratory which is traceable to NABL. We are having sophisticated Standards Room equipped with Trimos Vertical Electronic Digital Height Gauge, Granite Surface Plate, Granite Square Plate and Master Cylinder, to name a few.

Dedication to customers satisfaction and R & D efforts for innovation give us strength to meet challenges of today and tomorrow.

Exports : We are proud to note that the leading European Countries have put their confidence in application of “Crystal” range of products as match to their state-of-art technology.



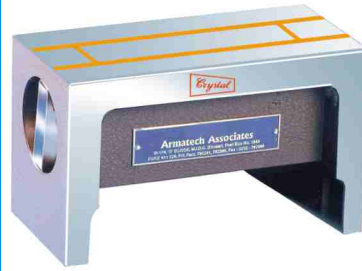
ARMATECH ASSOCIATES
An ISO:9001-2000 Certified Company



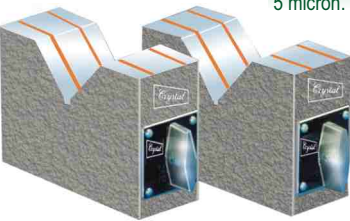
Magnetic 'V' Block Series AA - 180
Accuracy for Squareness Flatness & Parallelism within 5 micron.

Cat No.	L x H x W
AA - 1803 S	40 x 50 x 40 mm (2")
AA - 1803 H	40 x 50 x 40 mm (2")
AA - 1802 S	75 x 75 x 56 mm (3")
AA - 1802 H	75 x 75 x 56 mm (3")
AA - 1801 S	100 x 95 x 70 mm (4")
AA - 1801 H	100 x 95 x 70 mm (4")
AA - 1805 S	150 x 100 x 75 mm (6")
AA - 1805 H	150 x 100 x 75 mm (6")
AA - 1806 S	200 x 150 x 125 mm (8")
AA - 1806 H	200 x 150 x 125 mm (8")

Magnetic Tool Holder Series AA - 150



Cat No.	W x H x L
AA - 1501	120 x 100 x 220 mm



Magnetic 'V' Block Series AA - 180
Accuracy for Squareness Flatness & Parallelism within 5 micron.

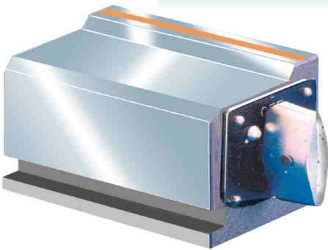
Cat No.	L x H x W
AA - 1807 S	110 x 75 x 55 mm(4")
AA - 1807 H	110 x 75 x 55 mm(4")
AA - 1808 S	150 x 100 x 65 mm(6")
AA - 1808 H	150 x 100 x 65 mm(6")

Magnetic Holder Series AA - 151



Cat No.	W x H x L
AA - 1511-S	110 x 110 x 140 mm
AA - 1511-H	110 x 110 x 140 mm

Magnetic Universal Block Series AA - 159



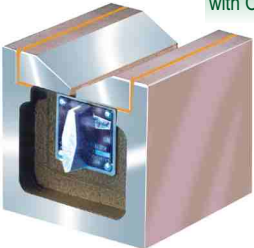
Cat No.	L x W x H
AA - 1591	75 x 50 x 60 mm

Magnetic Sticks Series AA - 222



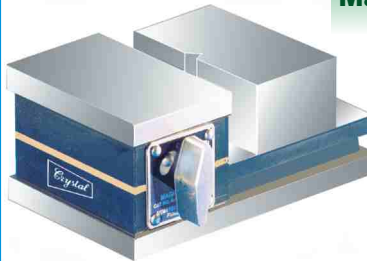
Cat No.	Size
AA - 2229	dia 3 mm x 150 mm L
AA - 2220	dia 5 mm x 150 mm L
AA - 2221	dia 6 mm x 150 mm L
AA - 2222	dia 8 mm x 150 mm L
AA - 2223	dia 10 mm x 150 mm L
AA - 2224	dia 12 mm x 150 mm L
AA - 2225	dia 14 mm x 150 mm L
AA - 2226	dia 15 mm x 150 mm L
AA - 2227	dia 16 mm x 150 mm L
AA - 2228	dia 18 mm x 150 mm L

Magnetic Square Block Series AA - 193
with One Vee



Cat No.	Size
AA - 1935	3" Square Block
AA - 1936	4" Square Block
AA - 1937	6" Square Block

Magnetic Vice Series AA - 273



Cat No.	W x L x H
AA - 2731	110 x 180 x 75 mm
AA - 2732	160 x 225 x 90 mm



Magnetic 'V' Block Series AA - 193
with Two Vee

Cat No.	Size
AA - 1938	4" Square Block size 100 x 100 x 100
AA - 1939	6" Square Block size 150 x 150 x 150

Pot Magnets Series AA - 192



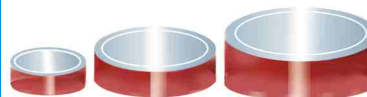
Cat No.	Size
AA - 1921	dia 18 mm x 16 mm H
AA - 1922	dia 22 mm x 20 mm H
AA - 1923	dia 27 mm x 25 mm H
AA - 1924	dia 35 mm x 30 mm H

Magnetic Rectangular Blocks Series AA - 193



Cat No.	Size
AA - 1931-S	25 x 25 x 25 mm
AA - 1932-S	75 x 56 x 60 mm
AA - 1933-S	100 x 70 x 70 mm
AA - 1934-S	150 x 70 x 85 mm
AA - 1932-H	75 x 56 x 60 mm
AA - 1933-H	100 x 70 x 70 mm
AA - 1934-H	150 x 70 x 85 mm

Button Magnets Series AA - 192



Cat No.	Size
AA - 1925	dia 12 mm x 10 mm H
AA - 1926	dia 20 mm x 12 mm H
AA - 1927	dia 25 mm x 15 mm H

Magnetic Holdfast Series AA - 190



Cat No.	Size
AA - 1901	dia 45 mm x 45 mm H
AA - 1902	dia 55 mm x 50 mm H
AA - 1903	dia 70 mm x 65 mm H
AA - 1904	dia 100 mm x 75 mm H

Magnetic Right Angle Setting Devices Series AA - 191



Cat No.	Size
AA - 1913 S	50 x 30 x 30 mm
AA - 1913 H	50 x 30 x 30 mm
AA - 1914 S	100 x 40 x 40 mm
AA - 1914 H	100 x 40 x 40 mm
AA - 1915 S	150 x 50 x 50 mm
AA - 1915 H	150 x 50 x 50 mm
AA - 1916 S	200 x 50 x 50 mm
AA - 1916 H	200 x 50 x 50 mm

Plate Type Magnetic Separator Series AA - 223



Cat No.	Size
AA - 2236	125 x 175 x 30 mm

Magnetic Adapter Plates Series AA - 158



Cat No.	L x W x T
AA - 1581	90 x 65 x 20 mm
AA - 1582	150 x 90 x 25 mm

Magnetic Separator Series AA - 223



Cat No.	Size
AA - 2231	dia 1" - 4, 5, 6, 7, 8
AA - 2232	dia 2" - 6, 8, 10, 12, 14
AA - 2233	dia 4" - 6, 8, 10, 12, 16
AA - 2234	dia 6" - 8, 16, 24, 30, 36
AA - 2237	dia 2" - 10, 12, 14

Magnetic Rack Series AA - 316



Cat No.	L x H x W
AA - 3161	150 x 25 x 30 mm
AA - 3165	225 x 25 x 30 mm
AA - 3163	300 x 25 x 30 mm

Magnetic Adjustable Links Series AA - 192



Cat No.	Size
AA - 1928	125 L x 55 x 25 x 25 mm

Magnetic Sheet Separators Series AA - 221 (Floater)



Cat No.	H x L x T
AA - 2215	90 x 65 x 50 mm
AA - 2216	125 x 125 x 60 mm
AA - 2217	255 x 210 x 75 mm

Magnetic Positioners Series AA - 192



Cat No.	Size
AA - 1929	220 L x 75 x 75 x 56 mm

Magnetic Sheet Puller Series AA - 224



Cat No.	W x L x H
AA - 2249	150 x 150 x 40 mm Total Height : 225 mm
AA - 2250	150 x 225 x 40 mm Total Height : 225 mm

Magnetic Angle Setter Series AA - 460



Cat No.	Size
AA - 4601	50 W x 55 H x 190 L
AA - 4602	50 W x 55 H x 275 L
AA - 4603	50 W x 55 H x 166 L

Electro Magnetic Bar Magnets Series AA - 315



Cat No.	Size
AA - 3151	32 x 25 x 300 mm
AA - 3152	32 x 25 x 500 mm
AA - 3153	32 x 25 x 700 mm
AA - 3154	32 x 25 x 900 mm

"B" (Ball) Blocks Series AA - 142 (with clamp)



Cat. No.	Size
AA - 1426	55 x 55 x 35 mm
AA - 1427	85 x 85 x 45 mm
AA - 1428	120 x 120 x 70 mm

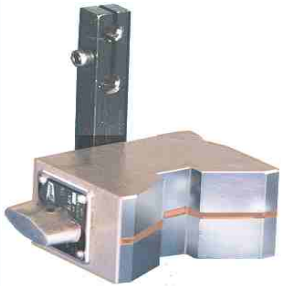
Magnetic Tool Setting Gauge Series AA - 168



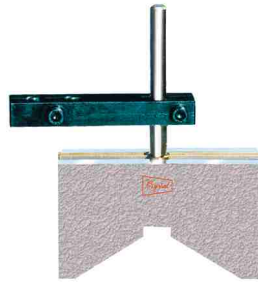
Cat. No.	Size
AA - 1681	60 x 60 x 30 mm
AA - 1682	80 x 80 x 30 mm
AA - 1683	100 x 100 x 35 mm



Cat. No.	Size
AA - 1684	68 x 72 x 35 mm
AA - 1685	75 x 76 x 35 mm
AA - 1686	75 x 80 x 40 mm



Cat. No.	Size
AA - 1687	50 x 100 x 40 mm
AA - 1688	90 x 120 x 40 mm

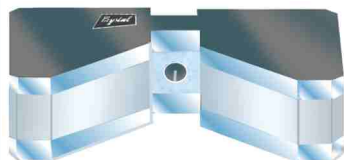


Cat. No.	Size
AA - 1689	60 x 60 x 30 mm
AA - 1690	80 x 80 x 30 mm
AA - 1691	100 x 100 x 35 mm
Angle 120° for all	

Magnetic Tool Setting Gauge Series AA - 169

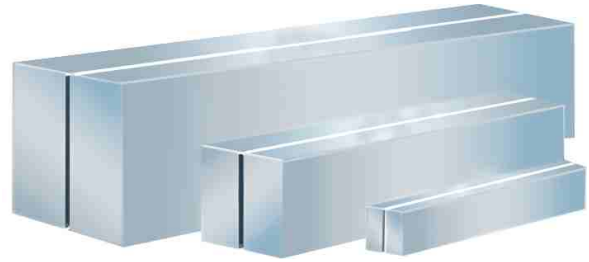


Cat. No.	Size
AA - 1693	60 x 50 x 50 mm



Cat. No.	H x L x T
AA - 1694	50 x 100 x 25 mm
AA - 1695	45 x 110 x 22 mm
AA - 1695	40 x 90 x 22 mm

Parallel Blocks Series AA - 120



Cat. No.	L x H x W	Cat. No.	L x H x W
AA - 1201	100 x 5 x 10 mm	AA - 1227	250 x 20 x 25 mm
AA - 1202	100 x 5 x 12 mm	AA - 1228	250 x 20 x 30 mm
AA - 1203	100 x 5 x 15 mm	AA - 1229	250 x 25 x 40 mm
AA - 1204	100 x 5 x 20 mm	AA - 1230	250 x 25 x 50 mm
AA - 1205	150 x 6 x 10 mm	AA - 1231	250 x 30 x 50 mm
AA - 1206	150 x 6 x 12 mm	AA - 1232	250 x 30 x 60 mm
AA - 1207	150 x 6 x 15 mm	AA - 1233	300 x 25 x 25 mm
AA - 1208	150 x 6 x 20 mm	AA - 1234	300 x 25 x 30 mm
AA - 1209	150 x 10 x 10 mm	AA - 1235	300 x 25 x 40 mm
AA - 1210	150 x 10 x 12 mm	AA - 1236	300 x 25 x 50 mm
AA - 1211	150 x 10 x 15 mm	AA - 1237	300 x 35 x 40 mm
AA - 1212	150 x 10 x 20 mm	AA - 1238	300 x 35 x 50 mm
AA - 1213	150 x 15 x 15 mm	AA - 1239	300 x 35 x 60 mm
AA - 1214	150 x 15 x 20 mm	AA - 1240	300 x 35 x 70 mm
AA - 1215	150 x 15 x 25 mm	AA - 1241	350 x 40 x 30 mm
AA - 1216	150 x 15 x 30 mm	AA - 1242	350 x 40 x 40 mm
AA - 1217	200 x 15 x 20 mm	AA - 1243	350 x 40 x 50 mm
AA - 1218	200 x 15 x 25 mm	AA - 1244	350 x 40 x 70 mm
AA - 1219	200 x 20 x 30 mm	AA - 1245	400 x 50 x 50 mm
AA - 1220	200 x 20 x 40 mm	AA - 1246	400 x 50 x 60 mm
AA - 1221	200 x 25 x 20 mm	AA - 1247	400 x 50 x 75 mm
AA - 1222	200 x 25 x 30 mm	AA - 1248	400 x 50 x 100 mm
AA - 1223	200 x 25 x 40 mm	AA - 1249	450 x 50 x 50 mm
AA - 1224	200 x 25 x 50 mm	AA - 1250	450 x 50 x 60 mm
AA - 1225	250 x 20 x 15 mm	AA - 1251	450 x 50 x 75 mm
AA - 1226	250 x 20 x 20 mm	AA - 1252	450 x 50 x 100 mm

Parallel Block Sets Series AA - 120 (Set of 6 Nos.)



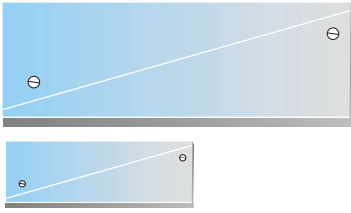
Cat. No.	L x H x W
AA - 1261	100 x 5 x 10 mm
	100 x 6 x 12 mm
	100 x 10 x 20 mm
AA - 1262	150 x 6 x 10 mm
	150 x 10 x 20 mm
	150 x 15 x 30 mm
AA - 1263	200 x 15 x 20 mm
	200 x 20 x 25 mm
	200 x 25 x 30 mm
AA - 1264	250 x 20 x 15 mm
	250 x 20 x 25 mm
	250 x 25 x 30 mm

Parallel Blocks Series AA - 131 (As per IS-4241-1967 (Sizes are nominal))



Cat. No.	H x W x L
AA - 1311	5 x 10 x 100 mm
AA - 1312	10 x 20 x 150 mm
AA - 1313	15 x 25 x 150 mm
AA - 1314	20 x 35 x 200 mm
AA - 1315	25 x 45 x 250 mm
AA - 1316	30 x 60 x 250 mm
AA - 1317	35 x 70 x 300 mm
AA - 1318	40 x 80 x 350 mm
AA - 1319	50 x 100 x 400 mm
AA - 1310	50 x 100 x 450 mm

Adjustable Parallels Series AA - 132



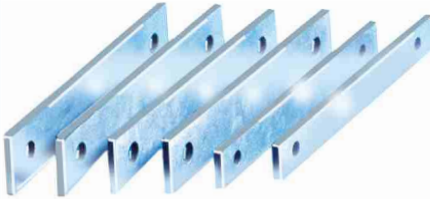
Cat. No.	Range	Dimension
AA - 1321	10-13	44 x 7
AA - 1322	13-17	54 x 7
AA - 1323	17-24	68 x 7
AA - 1324	24-33	90 x 7
AA - 1325	33-44	106 x 7
AA - 1326	44-57	129 x 7
AA - 1328	10-57	Set of above six

Rectangular Block Series AA - 133



Cat. No.	Size
AA - 1334	150 x 75 x 90 mm

Steel Parallels Series AA - 127



Cat. No.	W x H x L
AA - 1270	3 x 12 x 150
AA - 1271	3 x 15 x 150
AA - 1272	3 x 20 x 150
AA - 1273	3 x 22 x 150
AA - 1274	3 x 25 x 150
AA - 1275	3 x 28 x 150
AA - 1276	3 x 30 x 150
AA - 1277	3 x 25 x 150
AA - 1278	3 x 38 x 150
AA - 1279	3 x 40 x 150
AA - 1280	Set of above 10 Pairs

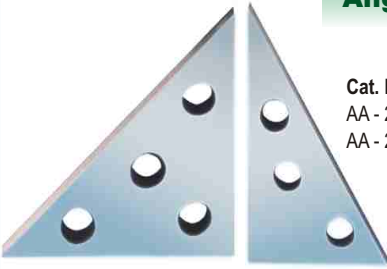
Hardened & Ground 'V' Blocks (with clamp) Series AA - 170

Hardness 58 Rc ± 2 Rc Accuracy for Squariness, Flatness & Parallelism within ± 3 micron



Cat. No.	L x H x W
AA - 1701	45 x 35 x 40 mm (1")
AA - 1702	55 x 40 x 55 mm (2")
AA - 1703	70 x 45 x 65 mm (3")
AA - 1704	125 x 70 x 90 mm (4")

Angle Blocks Series AA - 275



Cat. No.	Size	Angle
AA - 2751	75 x 75 x 8	45° / 90°
AA - 2752	50 x 85 x 8	30° / 60°

Hardened & Ground 'V' Blocks (with clamp) Series AA - 171

Hardness 58 Rc ± 2 Rc Accuracy for Squariness, Flatness & Parallelism within ± 3 micron



Cat. No.	W x H x L
AA - 1714	20 x 20 x 25 mm (1")
AA - 1711	40 x 40 x 50 mm (2")
AA - 1712	63 x 63 x 80 mm (3")
AA - 1713	80 x 80 x 100 mm (4")

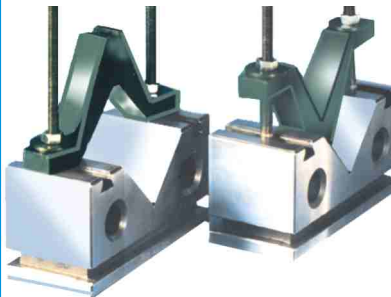
1-2-3 Blocks with One Hole Series AA - 133



Cat. No.	Size
AA - 1331	25 x 50 x 75 mm

Hardened & Ground 'V' Blocks (with clamp) Series AA - 172

Hardness 58 Rc ± 2 Rc



Cat. No.	W x H x L
AA - 1721	150 x 75 x 65 mm (3")
AA - 1722	175 x 100 x 65 mm (4")
AA - 1723	200 x 125 x 75 mm (5")

1-2-3 Blocks with Six Holes Series AA - 133



Cat. No.	Size
AA - 1332	25 x 50 x 75 mm

Hardened & Ground 'V' Blocks (with clamp) Series AA - 173

Hardness 58 Rc ± 2 Rc



Cat. No.	W x L x H
AA - 1731	120 x 60 x 75 mm (3")
AA - 1732	150 x 75 x 100 mm (4")
AA - 1733	200 x 100 x 125 mm (5")

1-2-3 Universal Blocks Series AA - 133

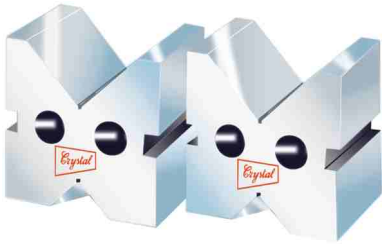


Cat. No.	Size
AA - 1333	25 x 50 x 75 mm

Hardened & Ground 'V' Blocks (with clamp) Series AA - 177

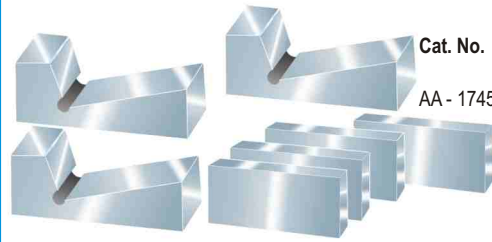
Accuracy as per IS - 2949 - 1974

Grade - A Hardened & Ground Grade - B Extra dense & Hard cast iron



Cat. No.	L x W x H
AA - 1771	50 x 40 x 40 mm
AA - 1772	50 x 50 x 50 mm
AA - 1773	63 x 50 x 50 mm
AA - 1774	63 x 80 x 80 mm
AA - 1775	63 x 100 x 100 mm
AA - 1776	70 x 140 x 140 mm
AA - 1777	80 x 63 x 63 mm
AA - 1778	100 x 80 x 80 mm
AA - 1779A	150 x 200 x 200 mm
AA - 1779B	200 x 200 x 200 mm
AA - 1779C	300 x 300 x 300 mm

Hardened & Ground 'V' Block Set Series AA - 174



Cat. No.
AA - 1745

V block dimension
75 L x 30 W x 30 H

Angle plate dimension
70 L x 30 W x 2 T

Universal 'V' Blocks Series AA - 178

Accuracy as per IS - 4960 - 1968

Grade - A Hardened & Ground Grade - B Extra dense cast iron



Cat. No.	W x L x H
AA - 1781	100 x 63 x 100 mm
AA - 1782	160 x 80 x 160 mm
AA - 1783	200 x 100 x 200 mm
AA - 1784	300 x 125 x 300 mm
AA - 1785	120 x 60 x 120 mm
AA - 1786	150 x 75 x 150 mm
AA - 1787	190 x 90 x 190 mm

Long 'V' Block Series AA - 174

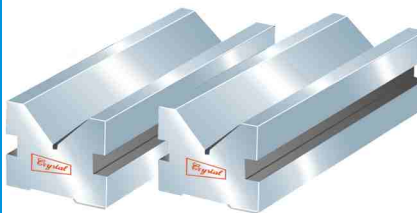


Custom made Product
Dimensions on Request

Elongated 'V' Blocks Series AA - 179

Accuracy as per IS - 4960 - 1968

Grade - A Hardened & Ground Grade - B Extra dense cast iron



Cat. No.	W x L x H
AA - 1791	50 x 160 x 35 mm
AA - 1792	63 x 200 x 50 mm
AA - 1793	100 x 300 x 63 mm
AA - 1794	40 x 100 x 32 mm
AA - 1795	70 x 200 x 50 mm
AA - 1796	100 x 300 x 65 mm

Roller Bearing 'V' Block Series AA - 371



Cat. No.
AA - 3711

Size
150 x 100 x 60 mm

Hardened & Ground Tool Room 'V' Block (with clamp) Series AA - 175

Hardness 58 Rc ± 2Rc

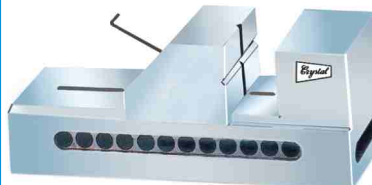


Cat. No.
AA - 1751

Size
48 Square x 90L mm

Hardened & Ground Precision Grinding Vice Series AA - 480

Series AA - 480



Cat. No.
AA - 4801
AA - 4902
AA - 4803
AA - 4804

L x W x H	JAW Opening
150 x 48 x 60 mm	0 - 75 mm
180 x 63 x 70 mm	0 - 90 mm
200 x 73 x 80 mm	0 - 100 mm
235 x 96 x 96 mm	0 - 125 mm

Hardened & Ground 'V' Block (with clamp) Series AA - 176

Hardness 58 Rc ± 2Rc



Cat. No.
AA - 1761

Size
65 L x 70W x 50H mm

Hardened & Ground Precision Grinding Vice with Screw Series AA - 481

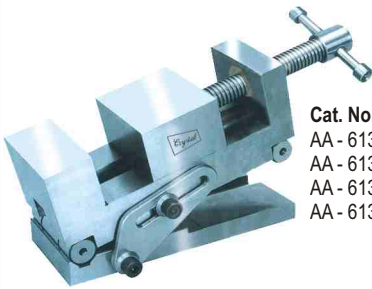
Series AA - 481



Cat. No.
AA - 4811
AA - 4812
AA - 4813
AA - 4814

L x W x H	JAW Opening
150 x 48 x 60 mm	0 - 75 mm
180 x 63 x 70 mm	0 - 90 mm
200 x 73 x 80 mm	0 - 100 mm
235 x 96 x 96 mm	0 - 125 mm

Sine Vice Series AA - 613



Cat. No.	L x W x H	JAW Opening
AA - 6131	150 x 48 x 88 mm	0 - 75 mm
AA - 6132	180 x 63 x 98 mm	0 - 90 mm
AA - 6133	200 x 73 x 108 mm	0 - 100 mm
AA - 6134	235 x 96 x 130 mm	0 - 125 mm

Aerofloat (Built in Pump) Series AA - 260



Cat. No.	Plate size dia	Plate Height	Admissible weight
AA - 2601	250	70 mm	100 kg

Support Screw Jacks / Pads Series AA - 144



Cat. No.	Pad Dia.	Style
AA - 1444 A	25	A
AA - 1444 B	25	B
AA - 1444 C	25	C
AA - 1444 D	25	D
AA - 1444 E	25	E
AA - 1444 F	25	F
AA - 1444 G	60	G

Cat. No.	dia
AA - 1441	dia 40 mm
AA - 1442	dia 50 mm
AA - 1443	dia 60 mm

AA - 1445 Sets of 4 Jacks & 6 Pads
AA - 1446 Sets of 4 Jacks & 6 Pads

Aerofloat (External Supply) Series AA - 260



Cat. No.	Plate size	Plate Height	Admissible weight
AA - 2602	300 x 200	50 mm	300 kg

Universal Surface Gauges Series AA - 141



Cat. No.	Size
AA - 1411	300 x 80 x 65 mm (12")
AA - 1412	450 x 100 x 85 mm (18")
AA - 1413	600 x 110 x 90 mm (24")

Box Parallel Series AA - 272



Cat. No.	Size
AA - 2724	150 x 100 x 150 mm
AA - 2725	300 x 120 x 200 mm
AA - 2726	100 x 100 x 100 mm
AA - 2727	150 x 150 x 150 mm
AA - 2728	200 x 200 x 200 mm
AA - 2729	250 x 250 x 250 mm

Right Angle Knee Series AA - 272



Cat. No.	Size
AA - 2721	200 x 150 x 80 mm
AA - 2722	300 x 250 x 100 mm
AA - 2723	500 x 250 x 150 mm

Heavy Duty Surface Gauges Series AA - 141



Cat. No.	Size
AA - 1415	130 x 105 x 35 x 600 mm
AA - 1416	160 x 130 x 40 x 1000 mm

Tool Makers Parallel Clamps Series AA - 143



Cat. No.	Length of Jaws
AA - 1431	38 mm
AA - 1432	50 mm
AA - 1433	75 mm
AA - 1434	100 mm
AA - 1435	125 mm
AA - 1436	150 mm
AA - 1437	200 mm
AA - 1438	250 mm
AA - 1439	300 mm

Heavy Duty Dial Indicator Stand Series AA - 111 (With Fine Adjustment)



Cat. No.	Size
AA - 1110	300 mm height
AA - 1111	300 mm height
AA - 1112	500 mm height
AA - 1113	800 mm height

Magnetic Bases Series AA - 160

AA-1600 AA-1601

Cat. No.	Size
AA - 1600	50 W x 55 H x 60 L mm
AA - 1601	63 W x 75 H x 63 L mm

Magnetic Bases Series AA - 160

AA-1614 AA-1615

Cat. No.	Size
AA - 1614	50 W x 55 H x 60L x 230
AA - 1615	50 W x 55 H x 60L x 230

Magnetic Bases Series AA - 160

AA-1602 AA-1603

Cat. No.	Size
AA - 1602	56 W x 70 H x 70 L mm
AA - 1603	56 W x 70 H x 65 L mm

Mini Magnetic Bases Series AA - 160 With Fine Adjustment & Central locking Mechanism

Cat. No. **Size**

AA- 1611 16 W x 32 H x 60L mm

Magnetic Bases Series AA - 160

AA-1604 AA-1605

Cat. No.	Size
AA - 1604	48 W x 64 H x 70 L mm
AA - 1605	42 W x 49 H x 48 L mm

Test Indicator Holder with long stem Series AA - 160

Cat. No. **Size**

AA - 1612 8mm Dia x 40 mm Length

Magnetic Bases Series AA - 160

AA-1606 AA-1607

Cat. No.	Size
AA - 1606	dia 41 X 38 H mm
AA - 1607	dia 28 X 25 H mm

Magnetic Bases Series AA - 160 With Fine Adjustment With two balls and Socket joint with central Knob for instant fixation

AA-1616 AA-1617

Cat. No.	Size
AA - 1616	50W x 55H x 60L x 230
AA - 1617	48W x 64H x 70L x 230

Magnetic Bases Series AA - 160

AA-1608 AA-1613

Cat. No.	Size
AA - 1608	dia 28 X 25 H mm
AA - 1613	dia 56 X 15 mm Thick

Vacuum Base Series AA - 111

AA-1117 AA-1118

Cat. No.	Size
AA - 1117	Dia 80 x 20 H x 230 L mm
AA - 1118	Dia 80 x 20 H mm

Vacuum Base with Flexi Arms

Permanent Magnetic Chuck (Heavy Duty) Series AA - 152

Accuracy as per IS - 4816 - 1971



Cat. No.	Size in mm	Magnetic Pole Gap in mm	Cat. No.	Sizes mm	Magnetic Pole Gap in mm
AA - 15201	150 x 100 x 60	16	AA - 15210	450 x 150 x 65	19
AA - 15202	175 x 125 x 60	16	AA - 15211	450 x 200 x 70	19
AA - 15203	200 x 100 x 60	16	AA - 15212	500 x 200 x 70	19
AA - 15204	200 x 150 x 60	16	AA - 15213	600 x 200 x 70	19
AA - 15205	250 x 150 x 60	19	AA - 15214	450 x 250 x 70	19
AA - 15206	300 x 150 x 60	19	AA - 15215	450 x 300 x 70	19
AA - 15207	300 x 200 x 65	19	AA - 15216	600 x 200 x 70	19
AA - 15208	350 x 150 x 65	19	AA - 15217	600 x 300 x 70	19
AA - 15209	400 x 150 x 65	19	AA - 15218	750 x 250 x 70	19

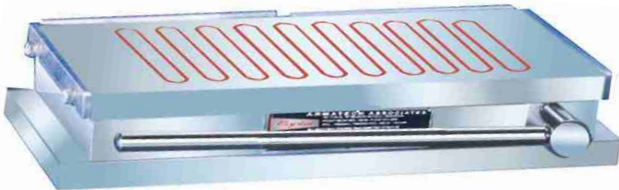
Permanent Magnetic Chuck Series AA - 157



Cat. No.	Size			Magnetic Pole Pitch
	L	W	H	
AA - 15711	150	100	70	9.9
AA - 15712	200	100	70	9.9
AA - 15713	200	150	70	9.9
AA - 15714	250	150	70	9.9
AA - 15715	300	150	70	9.9
AA - 15716	300	200	70	9.9
AA - 15717	350	150	70	9.9
AA - 15718	400	150	70	9.9
AA - 15719	450	150	70	9.9
AA - 15720	450	200	70	9.9
AA - 15721	500	200	70	9.9
AA - 15722	600	200	70	9.9

Permanant Magnetic Chuck (Close Pole) (Heavy Duty) Series AA - 153

Accuracy as per IS - 4816 - 1971



Cat. No.	Size in mm	Magnetic Pole Gap in mm	Cat. No.	Size in mm	Magnetic Pole Gap in mm
AA - 15301	250 x 150 x 65	14	AA - 15310	450 x 250 x 70	14
AA - 15302	300 x 150 x 65	14	AA - 15311	450 x 300 x 70	14
AA - 15303	300 x 200 x 65	14	AA - 15312	600 x 250 x 70	14
AA - 15304	350 x 150 x 65	14	AA - 15313	600 x 300 x 70	14
AA - 15305	400 x 150 x 65	14	AA - 15314	750 x 250 x 70	14
AA - 15306	450 x 150 x 70	14			
AA - 15307	450 x 200 x 70	14			
AA - 15308	500 x 200 x 70	14			
AA - 15309	600 x 200 x 70	14			

Round Magnetic Chuck Series AA - 159

Accuracy as per IS - 4816- 1971



Cat. No.	Size in mm	Magnetic Pole Gap in mm	Cat. No.	Size in mm	Magnetic Pole Gap in mm
AA - 15901	100 dia x 60 H	14	AA - 15906	225 dia x 65 H	16
AA - 15902	150 dia x 60 H	14	AA - 15907	250 dia x 70 H	16
AA - 15903	160 dia x 60 H	16	AA - 15908	315 dia x 70 H	19
AA - 15904	175 dia x 60 H	16	AA - 15909	375 dia x 70 H	19
AA - 15905	200 dia x 65 H	16	AA - 15910	400 dia x 70 H	19
			AA - 15911	450 dia x 70 H	19

Permanant Magnetic Chuck Series AA - 154

Accuracy as per IS - 4816 - 1987



Cat. No.	Size in mm	Magnetic Pole Gap in mm	Cat. No.	Size in mm	Magnetic Pole Gap in mm
AA - 15401	250 x 150 x 50	19	AA - 15411	450 x 300 x 55	19
AA - 15402	300 x 150 x 50	19	AA - 15412	600 x 250 x 55	19
AA - 15403	300 x 200 x 50	19	AA - 15413	600 x 300 x 55	19
AA - 15404	350 x 150 x 50	19	AA - 15414	750 x 250 x 55	19
AA - 15405	400 x 150 x 50	19			
AA - 15406	450 x 150 x 50	19			
AA - 15407	450 x 200 x 55	19			
AA - 15408	500 x 200 x 55	19			
AA - 15409	600 x 200 x 55	19			
AA - 15410	450 x 250 x 55	19			

Round Permanant Magnetic Chuck with Radial Poles Series AA - 159



Cat. No.	Size
AA - 15916	Dia 200 x 65 mm Ht.
AA - 15917	Dia 250 x 65 mm Ht.
AA - 15918	Dia 300 x 65 mm Ht.
AA - 15919	Dia 375 x 65 mm Ht.
AA - 15920	Dia 400 x 65 mm Ht.

Round Magnetic Chuck with Special Magnet with On - Off Knob

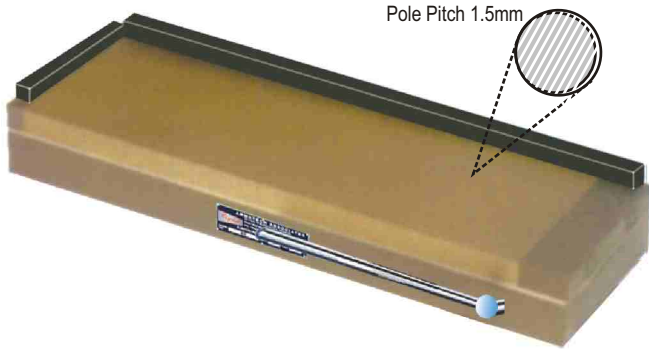
Series AA - 159



Cat. No.	Size	Pole Gap in mm
AA - 15921	Dia 100 x 60 mm Ht.	14
AA - 15922	Dia 150 x 60 mm Ht.	14
AA - 15923	Dia 175 x 60 mm Ht.	14
AA - 15924	Dia 200 x 60 mm Ht.	14

Rectangular Micro Pitch Permanent Magnetic Chuck

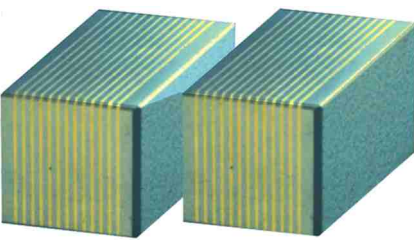
Series AA - 159



Cat. No.	L	W	Ht.
AA- 15926	200 x 150	60	mm
AA- 15927	250 x 150	60	mm
AA- 15928	300 x 150	60	mm
AA- 15929	350 x 150	60	mm
AA- 15930	450 x 150	60	mm

Transfer Blocks

Series AA - 155



Cat. No.	L x W x H
AA - 1551	50 x 100 x 35 mm
AA - 1552	60 x 75 x 30 mm
AA - 1553	50 x 75 x 75 mm
AA - 1554	50 x 100 x 50 mm
AA - 1555	80 x 120 x 25 mm
AA - 1556	60 x 100 x 25 mm
AA - 1557	50 x 100 x 20 mm

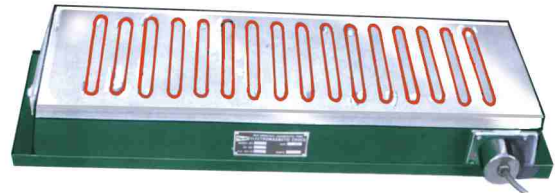
'V' Type Transfer Blocks

Series AA - 156



Cat. No.	L x W x H
AA- 1561	50 x 45 x 60 mm
AA- 1562	110 x 45 x 60 mm
AA- 1563	75 x 35 x 65 mm
AA- 1564	100 x 35 x 65 mm
AA- 1565	60 x 45 x 60 mm

Electromagnetic Rectangular Chuck Series AA - 301

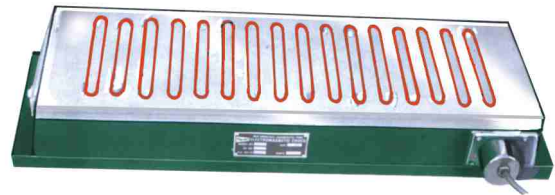


DC Power Supply Unit with Mag. / DeMag. Switch & Variable Control Unit.

Cat. No.	Sizes in mm	Pole		Cat. No.	Sizes in mm	Pole	
		Gap	Pitch			Gap	Pitch
AA- 30101	450 x 150 x 100	16	32	AA- 30108	750 x 300 x 100	16	32
AA- 30102	500 x 200 x 100	16	32	AA- 30109	900 x 300 x 100	16	32
AA- 30103	600 x 200 x 100	16	32	AA- 30110	1000 x 250 x 110	16	32
AA- 30104	600 x 250 x 100	16	32	AA- 30111	1000 x 300 x 110	16	32
AA- 30105	750 x 250 x 100	16	32	AA- 30112	1500 x 250 x 110	16	32
AA- 30106	900 x 250 x 100	16	32	AA- 30113	1500 x 300 x 110	16	32
AA- 30107	600 x 300 x 100	16	32	AA- 30114	1500 x 400 x 110	16	32

Heavy Duty Multi-Coil Electromagnetic Chuck

Series AA - 301



DC Power Supply Unit with Mag. / DeMag. Switch & Variable Control Unit.

Cat. No.	Sizes in mm	Pole		Cat. No.	Sizes in mm	Pole	
		Gap	Pitch			Gap	Pitch
AA- 30301	450 x 150 x 100	15	40	AA- 30308	750 x 300 x 100	15	40
AA- 30302	500 x 200 x 100	15	40	AA- 30309	900 x 300 x 100	15	40
AA- 30303	600 x 200 x 100	15	40	AA- 30310	1000 x 250 x 110	15	40
AA- 30304	600 x 250 x 100	15	40	AA- 30311	1000 x 300 x 110	15	40
AA- 30305	750 x 250 x 100	15	40	AA- 30312	1500 x 250 x 110	15	40
AA- 30306	900 x 250 x 100	15	40	AA- 30313	1500 x 300 x 110	15	40
				AA- 30314	1500 x 400 x 110	15	40

Heavy Duty Multi-Coil Electromagnetic Chuck

Fine Pitch Rectangular Magnetic Chuck (Longitudinal Pole)

Series AA - 304



Cat. No.	Size	Pole Pitch
AA- 30401	450 x 150 x 100	4+1
AA- 30402	500 x 200 x 100	4+1
AA- 30403	600 x 200 x 100	4+1
AA- 30404	600 x 250 x 100	4+1
AA- 30405	750 x 250 x 100	4+1
AA- 30406	900 x 250 x 100	4+1
AA- 30407	600 x 300 x 100	4+1
AA- 30408	750 x 300 x 100	4+1
AA- 30409	900 x 300 x 100	4+1
AA- 30410	1000 x 250 x 110	4+1
AA- 30411	1000 x 300 x 110	4+1
AA- 30412	1500 x 250 x 110	4+1
AA- 30413	1500 x 300 x 110	4+1
AA- 30414	1500 x 400 x 110	4+1

Heavy Duty Multi-Coil Electromagnetic Chuck

Fine Pitch Rectangular Magnetic Chuck (Transverse Pole)

Series AA - 305

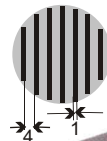


Cat. No.	Size	Pole Pitch	Cat. No.	Size	Pole Pitch
AA- 30501	450 x 150 x 100	4+1	AA- 30508	750 x 300 x 100	4+1
AA- 30502	500 x 200 x 100	4+1	AA- 30509	900 x 300 x 100	4+1
AA- 30503	600 x 200 x 100	4+1	AA- 30510	1000 x 250 x 110	4+1
AA- 30504	600 x 250 x 100	4+1	AA- 30511	1000 x 300 x 110	4+1
AA- 30505	750 x 250 x 100	4+1	AA- 30512	1500 x 250 x 110	4+1
AA- 30506	900 x 250 x 100	4+1	AA- 30513	1500 x 300 x 110	4+1
AA- 30507	600 x 300 x 100	4+1	AA- 30514	1500 x 400 x 110	4+1

Electroperm Magnetic Chuck

(For Grinding Machine Fine Pitch, Pole Pitch 4+1mm)

Series AA - 309



Cat. No.	Size	Cat. No.	Size
AA- 30901	450 x 150 x 70 mm	AA- 30908	750 x 300 x 70 mm
AA- 30902	500 x 200 x 70 mm	AA- 30909	900 x 300 x 70 mm
AA- 30903	600 x 200 x 70 mm	AA- 30910	1000 x 250 x 70 mm
AA- 30904	600 x 250 x 70 mm	AA- 30911	1000 x 300 x 70 mm
AA- 30905	750 x 250 x 70 mm	AA- 30912	1500 x 250 x 70 mm
AA- 30906	900 x 250 x 70 mm	AA- 30913	1500 x 300 x 70 mm
		AA- 30914	1500 x 400 x 70 mm

Micro-Pitch Electromagnetic Chuck

(Transverse Pole)

Series AA - 306



D. C. power supply unit with magnetic / De-magnetic switch set & Variable Control Unit.

Cat. No.	L	W	Ht.
AA - 30601	450 x 150	90	mm
AA - 30602	450 x 200	90	mm
AA - 30603	500 x 200	90	mm
AA - 30604	600 x 200	90	mm

Electroperm Magnetic Chuck



Series AA - 308
For Grinding Machine
Pole Gap 10 mm
Pole Pitch 30 mm



Series AA - 501
For Light Milling

Custom made Products
Dimensions on Request

Electroperm Magnetic Heavy Duty Chuck

For Milling

Series AA - 502



Cat. No.	Sizes
AA- 50201	600 x 300 x 90 mm
AA- 50202	750 x 300 x 90 mm
AA- 50203	1000 x 300 x 90 mm
AA- 50204	1500 x 300 x 90 mm
AA- 50205	600 x 400 x 90 mm
AA- 50206	750 x 400 x 90 mm
AA- 50207	1000 x 400 x 90 mm
AA- 50208	1500 x 400 x 90 mm

Accessories : Capacitor Discharge type Control Power Unit.

Electromagnetic Round Chuck

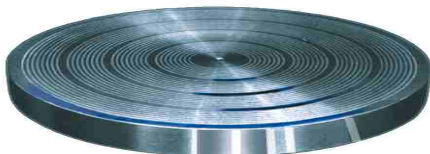
Series AA - 302

Custom made Products
Dimensions on Request



(Transverse Pole)

Accessories :
1] D. C. Power Supply Unit with Variable Control Unit.
2] Slip Ring Arrangement.



(Circular Pole Pitch 10+4)

Accessories :
1] D. C. Power Supply Unit with Variable Control Unit.
2] Slip Ring Arrangement.

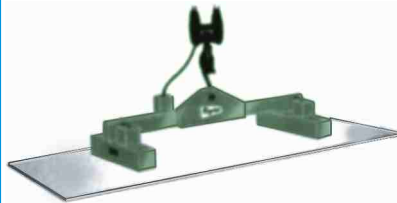


(Radial Pole)

Accessories :
1] D. C. Power Supply Unit with Variable Control Unit.
2] Slip Ring Arrangement.

Electroperm Sheet Metal Lifter

Series AA - 490



Custom made Product
Dimensions on Request

Electro Magnetic Chuck

For Cylindrical Grinder

Series AA - 470



Cat. No.	Sizes
AA - 4701	Suitable for 4" dia. 6" dia 8" dia 10" dia 12" dia

Accessories : Rectifier Unit with Mag. / Demag Switch for above.

Hardened & Ground Leveling Plate Series AA - 271



Cat. No.
AA - 2711

Size
150 x 150 mm

Hardened & Ground Tri-Square Series AA - 410

Accuracy as per IS - 2103 - 1972



Cat. No.	Size
AA - 4101	50 L x 30 W x 4 T mm
AA - 4102	75 L x 50 W x 4.5 T mm
AA - 4103	100 L x 70 W x 5 T mm
AA - 4104	150 L x 100 W x 6 T mm
AA - 4105	200 L x 140 W x 7 T mm
AA - 4106	250 L x 165 W x 8 T mm
AA - 4107	300 L x 200 W x 8 T mm
AA - 4108	400 L x 250 W x 10 T mm

Hardened & Ground Precision Angle Plate Series AA - 274



Cat. No.
AA - 2741

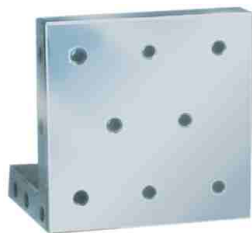
Size
100 x 100 x 115 mm

Hardened & Ground Knife Edge (Beveled Edge) Tri-Square Accuracy as per IS - 2103 - 1972 Series AA - 420



Cat. No.	Size
AA - 4201	50 L x 35 W x 4 T mm
AA - 4202	75 L x 50 W x 4.5 T mm
AA - 4203	100 L x 70 W x 5 T mm
AA - 4204	150 L x 100 W x 6 T mm
AA - 4205	200 L x 140 W x 7 T mm
AA - 4206	250 L x 165 W x 8 T mm
Aa - 4207	300 L x 200 W x 8 T mm
AA - 4208	400 L x 250 W x 10 T mm

Hardened & Ground Precision Angle Plate Series AA - 274



Cat. No.	Size
AA - 2742	115 x 150 x 150 mm
AA - 2743	150 x 150 x 150 mm
AA - 2744	150 x 150 x 225 mm
AA - 2745	150 x 225 x 300 mm

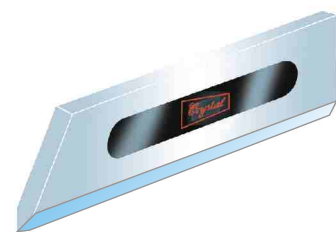
Hardened & Ground Tri-Squares Series AA - 270

Accuracy as per IS - 2103 - 1972 with Stock



Cat. No.	Size
AA - 2701	100 L x 70 W x 10 T mm
AA - 2702	150 L x 100 W x 12 T mm
AA - 2703	200 L x 140 W x 15 T mm
AA - 2704	250 L x 165 W x 20 T mm
AA - 2705	300 L x 200 W x 20 T mm
AA - 2706	400 L x 250 W x 25 T mm
AA - 2707	500 L x 300 W x 25 T mm
AA - 2708	700 L x 450 W x 30 T mm
AA - 2709	1000 L x 750 W x 40 T mm

Hardened & Ground Knife Edge Straight Edge Accuracy as per IS - 3512 -1966 Series AA - 280



Cat. No.	Size
AA - 2801	50 L x 30 W x 8 T mm
AA - 2802	75 L x 35 W x 8 T mm
AA - 2803	100 L x 40 W x 10 T mm
AA - 2804	150 L x 40 W x 10 T mm
AA - 2805	200 L x 50 W x 12 T mm
Aa - 2806	250 L x 50 W x 12 T mm
AA - 2807	300 L x 60 W x 12 T mm
AA - 2808	500 L x 50 W x 15 T mm
AA - 2809	600 L x 60 W x 20 T mm

Hardened & Ground Flanged Beam Tri-Square Series AA - 440



Cat. No.	Length of the Beam	Cross Section
AA - 4401	100 x 70	18 x 5
AA - 4402	150 x 100	25 x 6
AA - 4403	200 x 130	30 x 7
AA - 4404	300 x 200	40 x 8

Hardened & Ground Steel Straight Edge Accuracy as per IS-2220-1962 Series AA - 290



Cat. No.	Size
AA - 2901	100 L x 15 H x 5 T mm
AA - 2902	160 L x 20 H x 8 T mm
AA - 2903	300 L x 35 H x 12 T mm
AA - 2904	500 L x 50 H x 15 T mm
AA - 2905	800 L x 80 H x 20 T mm
AA - 2906	1000 L x 100 H x 20 T mm

Magnetic Tri Square Accuracy 5 micron Series AA - 450



Cat. No.
AA - 4501

Size
200 x 50 x 60 Base 200 H

Demagnetiser Series AA - 251



Cat No.	Size
AA - 2511	150 x 100 mm
AA - 2512	150 x 150 mm
AA - 2513	150 x 225 mm
AA - 2514	150 x 300 mm
AA - 2515	350 x 350 mm

Round Type Mini Demagnetiser Series AA - 251



Cat No.	Size
AA - 2518	dia 40 x 80 L mm

Mini Demagnetiser Series AA - 251



Cat No.	Size
AA - 2516	90 x 45 x 45 mm
AA - 2517	80 x 60 x 55 mm

Electromagnetic Lifter Series AA - 312



Cat. No.	Size
AA - 3121	dia 150 x 200 L
AA - 3122	dia 200 x 300 L
AA - 3123	dia 300 x 400 L

Demagnetiser Coil Type Series AA - 252



Cat No.	Size
AA - 2521	dia 100 bore mm
AA - 2522	dia 150 bore mm
AA - 2523	dia 200 bore mm
AA - 2524	dia 300 bore mm

Sine Table Series AA - 601



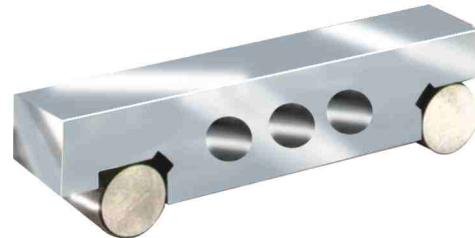
Cat No.	L x W x H
AA - 6011	150 x 120 x 85 mm
AA - 6012	250 x 150 x 85 mm
AA - 6013	300 x 150 x 85 mm
AA - 6014	450 x 150 x 85 mm

Permanent Magnetic Lifter Series AA - 311



Cat No.	Size L x W x H	Recommended Capacity (Kg.) With Hook	Tested Capacity (Kg.)
AA- 3111	200 x 100 x 165	300	900
AA- 3112	258 x 100 x 170	450	1350
AA- 3113	282 x 110 x 180	600	1800
AA- 3114	302 x 110 x 220	700	2100
AA- 3115	370 x 150 x 260	1000	3000
AA- 3116	456 x 180 x 295	1500	4500

Sine Bar



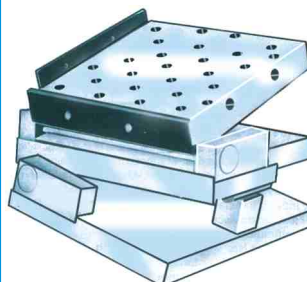
Cat No.	L x W x H	C. D. (mm)
AA - 60101	130 x 25 x 30	100
AA - 60102	245 x 40 x 60	200
AA - 60103	350 x 55 x 80	300

Electromagnetic Sheet Metal Lifter Series AA - 317



Cat. No.	Size
AA - 3171	dia 25 x 20 H mm
AA - 3172	dia 40 x 20 H mm
AA - 3173	dia 50 x 25 H mm

Compound Sine Table Series AA - 602



Cat. No.	L x W x H
AA - 6021	150 x 100 x 125 mm
AA - 6022	250 x 150 x 125 mm
AA - 6023	300 x 150 x 125 mm
AA - 6024	450 x 150 x 125 mm

Magnetic Sine Table Series AA - 603



Cat. No.	L x W x H
AA - 6031	150 x 120 x 135 mm
AA - 6032	250 x 150 x 135 mm
AA - 6033	300 x 150 x 140 mm
AA - 6034	450 x 150 x 140 mm
AA - 6035	400 x 200 x 140 mm

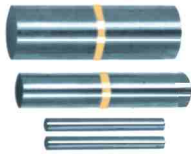
Compound Magnetic Sine Table Series AA - 604



Cat. No.	L x W x H
AA - 6041	150 x 100 x 165 mm
AA - 6042	250 x 150 x 165 mm
AA - 6043	300 x 150 x 170 mm
AA - 6044	450 x 150 x 170 mm
AA - 6045	400 x 200 x 170 mm

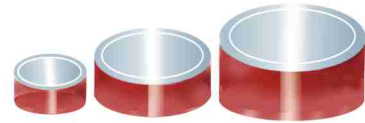
Magnetic Pins Series AA - 701

Custom made Product
Dimensions on Request



Magnetic Balancing Weights Series AA - 702

Custom made Product
Dimensions on Request



- Ask for detailed Literature for all products.
- Price List on all products is available.
- Details of products are made available by Electronic media.
- Due to R&D efforts the specifications of products are subject to change without notice.



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