



PRECISION TOOLS



F1 - MAG. TOOLS (F01-F10)



F2 - MAG. LIFTERS & BLOCKS BASES (F11-F22)



F3 - PRECISION PARALLELS, V-BLOCKS & CLAMP SETS (F23-F30)



F4 - STAINLESS TOOLS ACCESSORIES (F31-F33)



F5 - CONCENTRICITY GAUGES & BENCH CENTERS (F34-F43)



F6 - COMPARATOR STANDS (F44-F46)

F “PRECISION TOOLS



MAGNETIC REMOVERS



UNIT:mm

ITEM NO.	ØD	DIMENSION			WEIGHT (kgs)
		L1	L2	L3	
56100338		110	490	640	0.9
56100339	32	110	790	940	1.2
56100340		160	1040	1240	1.6

EXAMPLE:



Lathes machine



Machining center



Gear hobbing machine



Grinding machine

APPLICATION:

- For removing metal chips left on lathes machines, milling machines, slotting machines, broaching machines, sawing machines and gear hobbing machines.
- Used for parts detection and classification in surface treatment industry, such as electroplating and press machine.
- For removing iron scraps left in the cutting fluid troughs or water troughs of grinding machines and other similar machines.



MAGNETIC REMOVERS



ITEM NO.	ØD	DIMENSION			WEIGHT (kgs)
		L1	L2	L3	
56100341	22	120	580	700	1.1
56100342		160	840	1000	1.6

UNIT:mm

APPLICATION:

- For removing metal chips left on lathes machines, milling machines, slotting machines, broaching machines, sawing machines and gear hobbing machines.

EXAMPLE:



MAGNETIC BARS



< ITEM NO. 56100344

ITEM NO.	ØD	DIMENSION		WEIGHT (kgs)
		L1	L2	
56100343	12.5	110	330	0.3
56100344		180	400	0.4

UNIT:mm

APPLICATION:

- Suitable for T-Slot and the holes of work piece to remove the metal scraps.

EXAMPLE:



F1 - MAG. TOOLS

PRECISION TOOLS

F “PRECISION TOOLS



MINI EZ-RELEASE MAGNETIC PICK-UP TOOL

- Easy to pick up various kinds of hand tools, small iron and paper clips.
- Pull the trigger to drop attracted items easily.
- Permanent magnet.
- Light and handy design fits ergonomics.
- Impact-proof plastic materials.



PICK UP



- Easy to pick up various kinds of tools.

RELEASE



- Pull the trigger to drop attracted items easily.



Workshop



Sawmill



Garage



Office



PICK UP METAL ITEMS

▲ ITEM NO. 56100345

SIZE		PACKING	
W	Ø	N.W./G.W.	COLOR BOX
190 mm	110 mm	15 / 16 kgs	CUFT
7-1/2"	4-1/4"		24 ; 2.5'

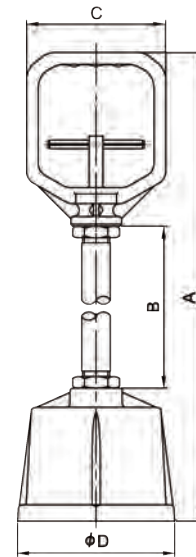


MAGNETIC HANDLERS



APPLICATION:

- Suitable for removal iron scraps on the machine or floor around the machine.
- Suitable for the segmentation or sorting of magnetic and non-magnetic materials in die-casting, plastic and metal working industries.



ITEM NO.	ØD	DIMENSION			UNIT:mm
		A	B	C	WEIGHT (kgs)
56100346	114	295	70	100	1.1
56100347		590	365	100	1.6

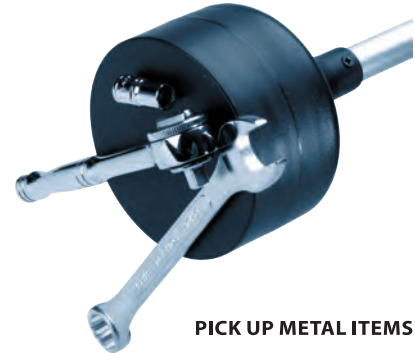
EXAMPLE:





EZ-RELEASE MAGNETIC PICK-UP TOOLS

- Pick up ferrous items such as screws, bolts, nails, and steel parts.
- Release attracted items by pulling the trigger on the handle.
- Easy to use, safe practical and time saving.
- Permanent magnet.

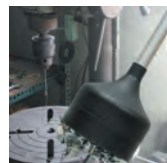


< ITEM NO. 56100348

SIZE		PACKING IN BULK	
TOTAL LENGTH	Ø	N.W./G.W.	CUFT
680 mm 26"	100 mm 3-7/8"	7 / 9 kgs	12 ; 2.1'



Sawmill



Workshop



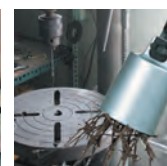
Garage

> ITEM NO. 56100349

SIZE		PACKING IN BULK	
TOTAL LENGTH	Ø	N.W./G.W.	CUFT
960 mm 37-3/4"	100 mm 3-7/8"	11 / 12 kgs	8 ; 2.5'



Sawmill



Workshop



Garage



ANGLE



RELEASE MAGNETIC SWEEPER WITH WHEELS

- Release magnetic sweeper has a magnetic device which enables to attract any metal items and spare parts laying on the ground without picking them up one by one.
- Pull the trigger to release magnetic force.
- Easy to use, safe and practical time saving device.
- Permanent magnet.



Sawmill



Garage



Office/Home

> ITEM NO. 56100350
56100351

SIZE		PACKING IN BULK	
ROD SIZE	TOTAL WIDTH	N.W./G.W.	CUFT
720 mm / 28-1/4"~	377 mm	9 / 11 kgs	6 ; 3.2'
1035 mm / 40-1/2"	14-1/2"		



RELEASE MAGNETIC RAKE

- Magnetic rake is perfect for picking up metal items from sand, grass and matchwood.
- Turn the knob to release magnetic force.
- Telescope rod extends from 675m/m to 1100m/m.



> ITEM NO. 56100352

SIZE		PACKING IN BULK	
ROD SIZE	TOTAL WIDTH	N.W./G.W.	CUFT
675 mm / 26-1/2"~	377 mm	8.2 / 9.2 kgs	10 ; 2.8'
1100 mm / 43-1/4"	14-1/2"		



Sandlot



Grass



Matchwood



F “PRECISION TOOLS



MAGNETIC FINDER



- Pick up ferrous items such as screws, bolts, clips, nails, and steel parts.
- Telescope extends from 660 mm to 1080 mm.
- Ergonomic handle for comfort.
- Easy to use, safe, practical and time saving.
- Permanent magnet.

**PICK UP
METAL ITEMS**



Sawmill



Garage



Workshop

< ITEM NO. 56100353

SIZE		PACKING	
ROD SIZE	Ø	IN BULK	
		N.W./G.W.	CUFT
660 mm / 26"~	100 mm	7 / 10 kgs	12 ; 2'
1080 mm / 42-1/2"	4"		



RECTANGULAR MAGNETIC FINDER



- Powerful magnetic tool is ideal for picking up ferrous metal items such as iron chips, shaving, nails, nuts, and etc.
- Quick, convenient, safe, and time saving to clean floors, driveways, and construction areas.
- Adjustable angle design easily reaches under machinery or cars.
- Aluminum telescope rod.
- Ergonomic handle for comfort.

ANGLE 90°



Sawmill



Garage



Workshop

< ITEM NO. 56100354

SIZE		PACKING	
ROD SIZE		IN BULK	
		N.W./G.W.	CUFT
680 mm / 26-3/4"~		8.2 / 9.2 kgs	10 ; 2.3'
1100 mm / 43-1/4"			



RECTANGULAR MAGNETIC FINDER WITH WHEELS

- Powerful magnetic tool is ideal for picking up ferrous items such as iron chips, shaving, nails, nuts, and etc.
- Quick, convenient, safe and time saving to clean floors, driveways, and construction areas.
- Adjustable angle design easily reaches under machinery or cars.
- Aluminum telescope rod.
- Ergonomic handle for comfort.
- Smart and convenient wheels design saves time and energy while cleaning up and removing stuffs.



Sawmill



Garage



Grass

TPR non-slip wheels

ANGLE 180°

> ITEM NO. 56100355

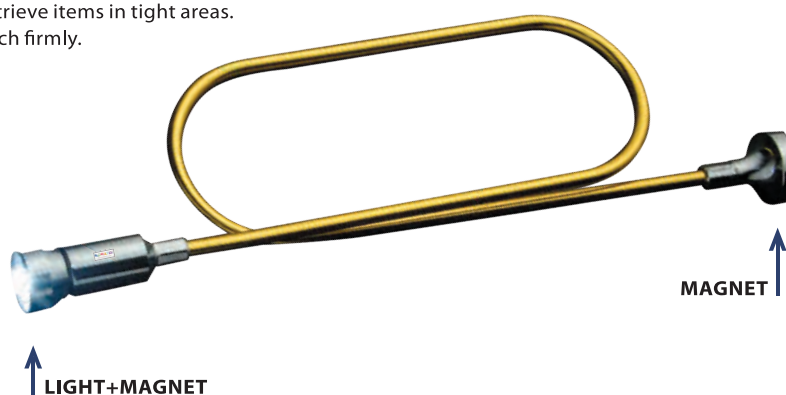
SIZE	PACKING	
ROD SIZE	IN BULK	
	N.W./G.W.	CUFT
680 mm / 26-3/4"~	6.8 / 8 kgs	6 ; 2.5'
1100 mm / 43-1/4"		



MINI WORKING LAMP FLEXIBLE & MAGNETIC

COMBINE 4 USEFUL FUNCTIONS IN 1 UNIT :

- LED Light.
- Flexible Tube→Fix the angle accuracy.
- Powerful Magnet→Retrieve items in tight areas.
- Magnetic Stand→Attach firmly.



> ITEM NO. 56100357

SIZE	PACKING	
TOTAL LENGTH	COLOR CARD & DISPLAY BOX	
	N.W./G.W.	CUFT
480 mm / 15-3/4"	4 / 6 kgs	18 / 72 ; 1.4'



FT - MAG. TOOLS

PRECISION TOOLS



LIGHTED FLEXIBLE MAGNETIC PICK UP TOOL



< ITEM NO. 56100358

SIZE	CAPACITY	PACKING TIED ON CARD	
LENGTH		N.W./G.W.	CUFT
533 mm / 21"		6 / 7 kgs	25 / 50 ; 1'
0.3 kgf / 0.7 lbf			



FLEXIBLE MAGNETIC PICK UP TOOLS



< ITEM NO. 56100359

SIZE	CAPACITY	PACKING TIED ON CARD	
LENGTH		N.W./G.W.	CUFT
490mm / 19"		5.2 / 6.2 kgs	25 / 50 ; 1.1'
1.8 kgf / 4 lbf			



< ITEM NO. 56100360

SIZE	CAPACITY	PACKING TIED ON CARD	
LENGTH		N.W./G.W.	CUFT
533 mm / 21"		18 / 19 kgs	12 / 24 ; 1.8'
12 kgf / 26.6 lbf			



< ITEM NO. 56100361

SIZE	CAPACITY	PACKING TIED ON CARD	
LENGTH		N.W./G.W.	CUFT
533 mm / 21"		15 / 16 kgs	12 / 48 ; 1.8'
6 kgf / 13 lbf			



MAGNETIC PEN

EXAMPLE:



APPLICATION:

- Used for picking up the hand tools or hardware and removing the iron scraps in the holes of workpiece.
- Suitable for a power panel, auto or machinery repair industry, office and house.

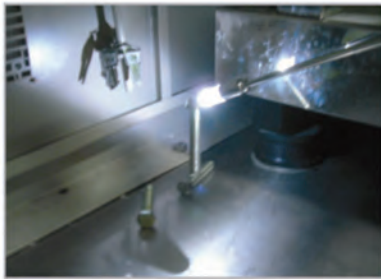
UNIT:mm

ITEM NO.	DIMENSION	HOLD CAPACITY	WEIGHT (g)
56100362	MIN. 135 / MAX. 650	MAX. 1.8 kgf	66



LED MAGNETIC PEN

EXAMPLE:



APPLICATION:

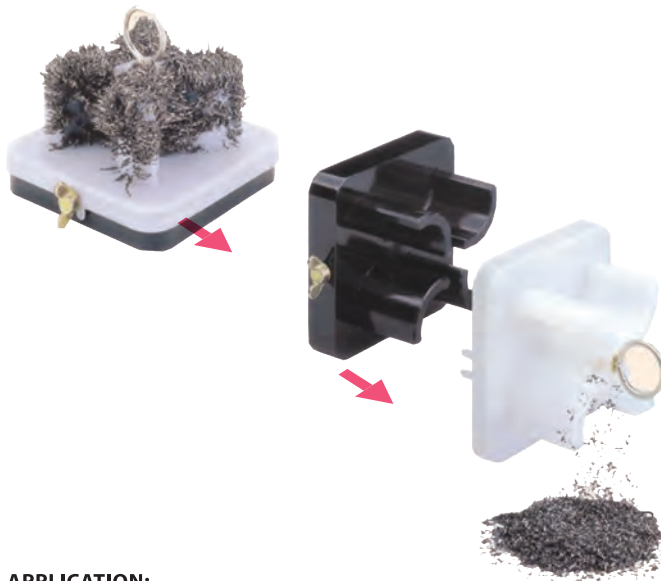
- Easy to pick up the fallen parts in dark places by the device combines both LED light and powerful magnets.
- Please do not look squarely at the light due to strong LED light beams.
- Keep water away from Mag Pen.

UNIT:mm

ITEM NO.	DIMENSION	HOLD CAPACITY	BATTERY	WEIGHT (g)
56100363	MIN. 160 / MAX. 570	MAX. 1.8 kgf	3PCS / #LR41	66



MAGNETIC CLEANERS



EXAMPLE:



APPLICATION:

- Hydraulic power unit.
- Circulating lubrication oil tank.
- Oil troughs of wire-cut machines and EDMs.
- Oil troughs and water troughs of washers and oil purifiers.

UNIT:mm

ITEM NO.	A	B	C	D	FLUX DENSITY	BODY COLOR	WEIGHT (kgs)
56100364	110	110	20	42	800 Goe	BLACK	0.6
56100365	110	110	20	42	3000 Goe	RED	0.75



F “PRECISION TOOLS



MAGNETIC GATE CLEANERS



EXAMPLE:



APPLICATION:

- For attracting metal iron powders left in the cutting-fluid tanks of machine tools, such as machining centers, CNC lathes, EDMs and wire-cutting machines.
- Models with different specifications and sizes can be custom-made.

UNIT:mm

ITEM NO.	DIMENSION						PITCH N	BAR QTY Q	WEIGHT (kgs)
	A	H	H1	W	W1	W2			
56100366	32.5	340	160	200	250	100	45	4PCS	3.3
56100367	32.5	520	250	200	250	100	45	4PCS	5.1
56100368	35	620	300	320	370	220	50	6PCS	8.6
56100369	35	760	370	320	370	220	50	6PCS	12.3



PERMANENT MAGNETIC LIFTS (CAM OPERATED)

POINTS FOR ATTENTION:

- Cam Switch: Put the cam inside the absorptive flat surface board when using, and be careful not to scrape the grinding surface.
- Attraction: Placing Lifma on the transporting material and pull the lever up in vertical position.
- Removal: Put lever in horizontal position to remove Lifma from the transporting material.

UNIT:mm

ITEM NO.	CAPACITY	L	W	H	NET WEIGHT
56100370	400 kgf	320	140	150	16 kgs
56100371	800 kgf	320	230	200	25 kgs
56100113	1000 kgf	320	200	230	25 kgs
56100373	1500 kgf	450	320	250	55 kgs
56100114	2000 kgf	450	250	320	35 kgs





PERMANENT MAGNETIC LIFTS – FOR LIGHT WEIGHT



ITEM NO.
56100115



ITEM NO.
56100116



ITEM NO. 56100117

APPLICATION:

- Most suitable for pulling out steel material or steel sheet and carrying material, metal mold, press die and so on.

FEATURES:

- A new cam mechanism is employed so as not to cause scratches on the surface of work.
- Work is held and released quite smoothly.

ITEM NO.	CAPACITY	L	W	H	UNIT:mm
					NET WEIGHT
56100116	60 kgf	60	50	55	1.15 kgs
56100115	100 kgf	120	50	55	2.0 kgs
56100117	200 kgf	140	140	50	2.5 kgs



BATTERY HOISTING MAGNETIC CHUCKS

- Lifting Capacity approximates to half of maximum attraction.
- Working hours is based on 50% ED (5 minutes break after using for 5 minutes)
- Capacity of lifting would be influenced by material, thickness and smoothness of plates. Please choose suitable models for your requirement; and also, all protection steps are necessary for safety.



ITEM NO. 56100375



ITEM NO. 56100376



ITEM NO. 56100400



ITEM NO.	LIFTING CAPACITY	DIMENSION LxWxH	BOTTOM	WEIGHT (kgs)	BATTERY CAPACITY	WORKING HOURS	UNIT:mm
							ACCESSORIES
56100375	2000 kgf	425 x 325 x 480	335 x 280	170	12V x 30AH	12 hr	Charger x 1
56100376	4000 kgf	660 x 415 x 530	550 x 530	310	12V x 66AH x 2	12 hr	Charger x 1
56100376-1	6000 kgf	830 x 564 x 690	700 x 450	850	12V x 110AH x 2	18 hr	Charger x 1
56100400	6000 kgf	710 x 450 x 1450	700 x 450	930	12V x 80AH x 2	12 hr	Charger x 1



F “PRECISION TOOLS



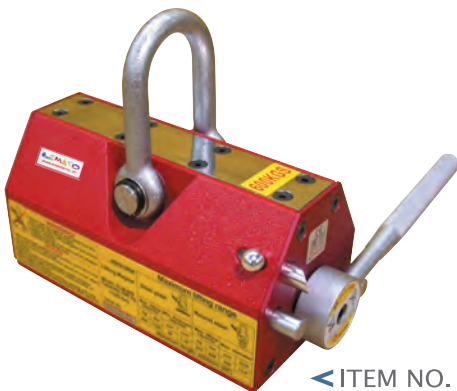
PERMANENT MAGNETIC LIFTS



< ITEM NO. 56100377



< ITEM NO. 56100378



< ITEM NO. 56100379



< ITEM NO. 56100381



< ITEM NO. 56100380



< ITEM NO. 56100382

ITEM NO.	CAPACITY		L1		L		H1		W		H		WEIGHT		SAFETY FACTOR
	kgf	lbf	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kgs	lbs	
56100377	100	220	107	4.2	84	3.3	120	4.7	60	2.4	71	2.8	2.5	5.5	x3.5 times
56100378	300	660	180	7.1	155	6.1	156	6.1	90	3.6	93	3.7	8.6	18.9	
56100379	600	1320	255	10	224	8.8	212	8.3	115	4.5	120	4.7	21	46	
56100380	1000	2200	280	11	245	9.6	286	11.3	165	6.5	169	6.7	46	101	
56100381	2000	4400	422	16.6	380	15	348	13.7	216	8.5	215	8.5	118	259	
56100382	3000	6600	566	22.3	530	20.9	400	15.7	216	8.7	222	8.7	181	399	



MAGNETIC SQUARE BLOCKS WITH VEE

APPLICATION:

- Uses as a holding fixture for measuring and scribing operations.

FEATURES:

- Attraction is available on the upper face, both side faces and V-grooves.
- Ideal for holding objects where surface finish is critical.
- 2 intersected V-groove for holding round workpieces.



ITEM NO.	V-FACE HOLDING POWER		FLAT-FACE HOLDING POWER		DIMENSION				WEIGHT (kgs)
	STONE SURFACE PLATE		STONE SURFACE PLATE		B	L1	H	P2	P3
56100119	300N (30 kgf)		500N (50 kgf)		100±0.8	4	12	4	12
56100120	600N (60 kgf)		1800N (180 kgf)		150±1.2	5	19	5	19

UNIT:mm



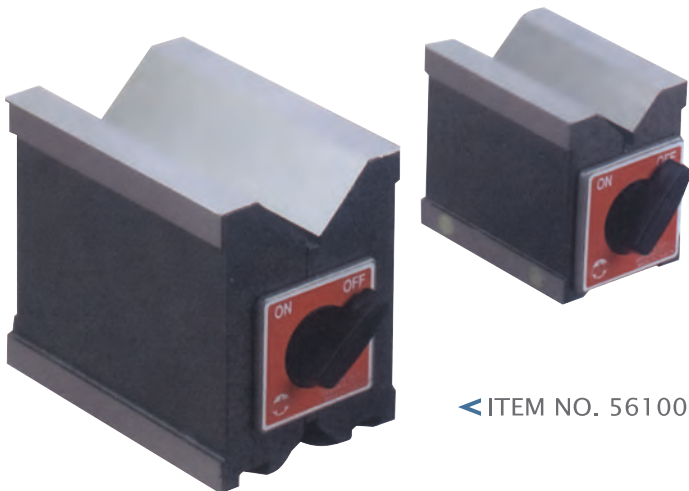
MAGNETIC V-BLOCKS

APPLICATION:

- Ideal for holding round and irregular shapes for scribing, grinding, measuring and machining.

FEATURES:

- Powerful magnetic pull.
- Precision ground finish for using as an inspection device.
- ON-OFF switch.



< ITEM NO. 56100121

< ITEM NO. 56100122

ITEM NO.	MAGNETIC PULL		DIMENSION			WEIGHT (kgs)
	V-GROOVE	SURFACE	W	L	H	
56100121	55 kgf	70 kgf	56	72	80	3
56100122	90 kgf	110 kgf	75	100	115	5.1

UNIT:mm



F “PRECISION TOOLS



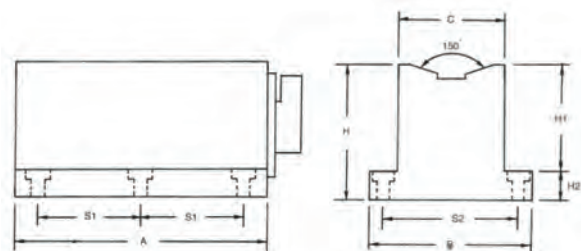
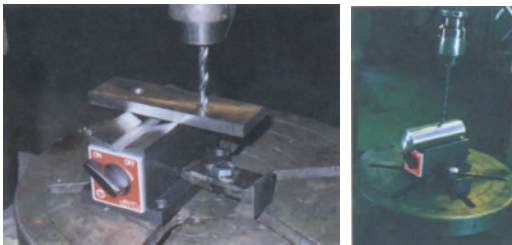
MAGNETIC BLOCKS – FOR HOLDING SMALL STEEL PLATES & BARS



APPLICATION:

- Ideal for workpieces difficult to clamp to do drilling, tapping, EDM machining, etc.

WORKING EXAMPLE:

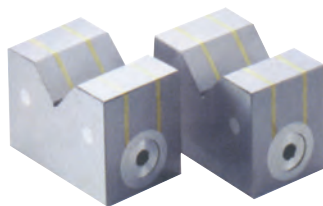


UNIT:mm

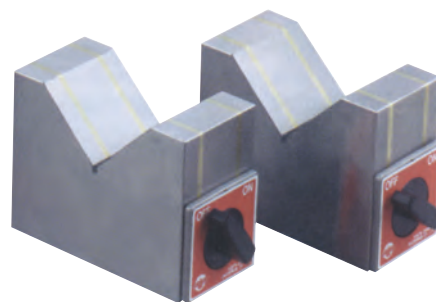
ITEM NO.	MAGNETIC PULL		DIMENSION								N.W.
	V-GROOVE	SURFACE	A	B	C	H	H1	H2	S1	S2	
56100123	110 kgf	160 kgf	118	76	50	62	50	12	48	62	2.5 kgs



MAGNETIC V-BLOCK PAIRS



▲ ITEM NO. 56100124



▲ ITEM NO. 56100125

APPLICATION:

- Suitable for holding round steel for scribing, measuring, and grinding.

FEATURES:

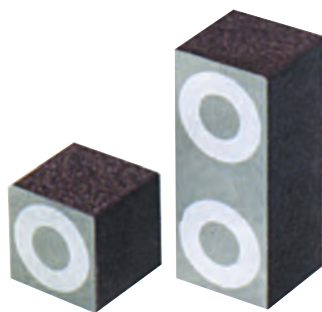
- Two pieces machined to the same tolerance in size.
- NO-OFF switch or hex key operated.

UNIT:mm

ITEM NO.	MAGNETIC PULL	APPLICABLE DIAMETER	DIMENSION			WEIGHT
			B	L	H	
56100124	15 kgf	50	40	70	50	1 kg × 2
56100125	20 kgf	80	50	100	80	3 kgs × 2



MAGNETIC HOLDERS



▲ ITEM NO. 56100126
56100127



▲ ITEM NO. 56100128
56100129
56100130



▲ ITEM NO. 56100131
56100132
56100133



▲ ITEM NO. 56100134
56100135
56100136

APPLICATION:

- For holding small or tiny workpieces, picking up press pieces.
- Uses as a stationary item.
- To be applied as a component of a device.

ITEM NO.	MAGNETIC PULL	DIMENSION	UNIT:mm
			WEIGHT (kgs)
56100126	10 kgf	26 × 26 × 25	0.11
56100127	20 kgf	60 × 26 × 25	0.25
56100128	15 kgf	ø30 × 25	0.11
56100129	30 kgf	ø40 × 30	0.24
56100130	50 kgf	ø50 × 40	0.50
56100131	3 kgf	ø10 × 8	0.005
56100132	5 kgf	ø18 × 8	0.016
56100133	9 kgf	ø25 × 10	0.004
56100134	3 kgf	ø10 × 8	0.005
56100135	5 kgf	ø18 × 8	0.016
56100136	9 kgf	ø25 × 10	0.04



UNIVERSAL MECHANICAL ARM MAGNETIC BASES



▲ ITEM NO. 56100144



▲ ITEM NO. 56100145



▲ ITEM NO. 56100146





UNIVERSAL HYDRAULIC ARM MAGNETIC BASES



▲ ITEM NO. 56100147



▲ ITEM NO. 56100148



▲ ITEM NO. 56100149



UNIVERSAL MECHANICAL ARM MAGNETIC BASES



▲ ITEM NO. 56100150



▲ ITEM NO. 56100151



▲ ITEM NO. 56100152

FEATURES:

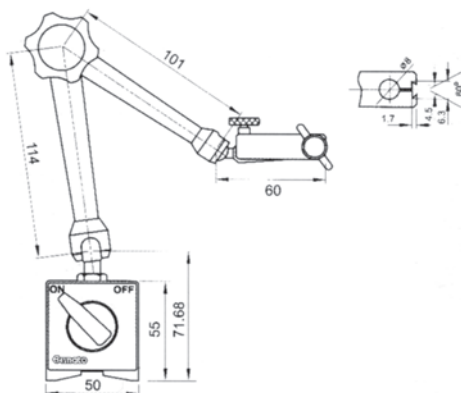
- Multi-nimble joint for instant fixation in any position.
- Turning the tension knob results in light pressure in the joints-holding the rods absolutely rigid-hydraulic arm.
- Guaranteed firm and solid fixation of all joints by tightening just one knob.

UNIT:mm

ITEM NO.	MAGNETIC PULL	ARM LENGTH	BASE DIMENSION			NET WEIGHT
			L	W	H	
56100144	100 kgf	425	80	50	55	2.3 kgs
56100145	100 kgf	340	80	50	55	2.0 kgs
56100146	80 kgf	340	60	50	55	1.7 kgs
56100147	100 kgf	425	80	50	55	2.5 kgs
56100148	100 kgf	340	80	50	55	2.3 kgs
56100149	80 kgf	340	60	50	55	2.0 kgs
56100150	80 kgf	340	60	50	55	1.6 kgs
56100151	80 kgf	340	60	50	55	1.6 kgs
56100152	80 kgf	300	60	50	55	1.4 kgs



UNIVERSAL MECHANICAL ARM MAGNETIC BASES



- It can easily be adjusted and fixed in any directions.
- You can adjust the degree of tightness only by turning the knob.
- Ideal for inspection.
- Seconds to set up work.
- Magnetic pull 80kgf.

▲ ITEM NO. 56100153



MAGNETIC BASE SERIES



▲ ITEM NO. 56100154

- King size magnetic base
- Fine adjustment



▲ ITEM NO. 56100155

- Universal clamp
- Fine adjustment



▲ ITEM NO. 56100156

- Flexible arm



◀ ITEM NO. 56100157

- Standard



◀ ITEM NO. 56100158

- Fine adjustment

UNIT:mm

ITEM NO.	MAGNETIC PULL	MAIN POLE DIA	L	SUB POLE DIA	L	BASE DIMENSION L	W	H	NET WEIGHT
56100154	160 kgf	—	—	—	—	120	50	55	2.5 kgs
56100155	80 kgf	12	176	10	230	60	50	55	1.70 kgs
56100156	80 kgf	—	315	—	—	60	50	55	1.60 kgs
56100157	80 kgf	12	176	10	165	60	50	55	1.60 kgs
56100158	80 kgf	12	176	10	150	60	50	55	1.62 kgs





MAGNETIC BASE SERIES-250 kgf SERIES

WITHOUT UNIVERSAL JOINT
D-DOVETAIL TYPE & FLAT BACK TYPE

UNIT: mm



ITEM NO.	VERTICAL STEM L	ADJUST STEM L1	UNIVERSAL JOINT L2	INDICATOR CONNECTOR L3	HOLDING POWER
56100401	130	164			
56100402	225	164			
56100403	225	260			
56100404	300	164			
56100405	300	260	0	55	250 kgf
56100406	300	360			
56100407	400	260			
56100408	400	360			
56100409	500	260			
56100410	500	360			

**L-LUG BACK TYPE**

UNIT: mm



ITEM NO.	VERTICAL STEM L	ADJUST STEM L1	UNIVERSAL JOINT L2	INDICATOR CONNECTOR L3	HOLDING POWER
56100411	130	164			
56100412	225	164			
56100413	225	260			
56100414	300	164			
56100415	300	260	0	50	250 kgf
56100416	300	360			
56100417	400	260			
56100418	400	360			
56100419	500	260			
56100420	500	360			


WITH UNIVERSAL JOINT
UD-DOVETAIL TYPE & FLAT BACK TYPE

UNIT: mm



ITEM NO.	VERTICAL STEM L	ADJUST STEM L1	UNIVERSAL JOINT L2	INDICATOR CONNECTOR L3	HOLDING POWER
56100421	130	164			
56100422	225	164			
56100423	225	260			
56100424	300	164			
56100425	300	260	35	55	250 kgf
56100426	300	360			
56100427	400	260			
56100428	400	360			
56100429	500	260			
56100430	500	360			

**UL-LUG BACK TYPE**

UNIT: mm



ITEM NO.	VERTICAL STEM L	ADJUST STEM L1	UNIVERSAL JOINT L2	INDICATOR CONNECTOR L3	HOLDING POWER
56100431	130	164			
56100432	225	164			
56100433	225	260			
56100434	300	164			
56100435	300	260	35	50	250 kgf
56100436	300	360			
56100437	400	260			
56100438	400	360			
56100439	500	260			
56100440	500	360			

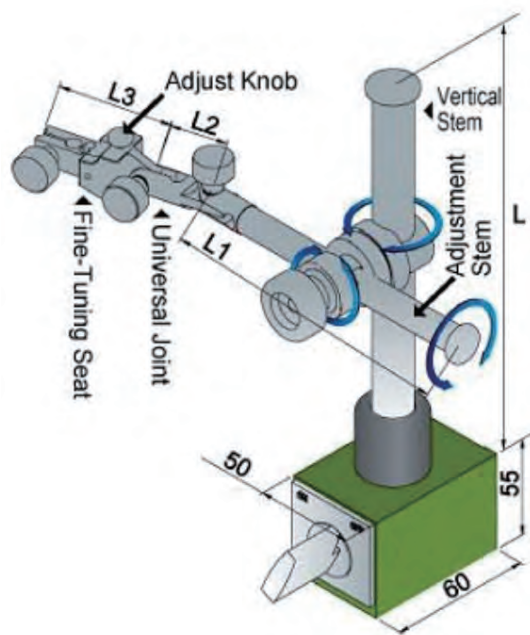




MAGNETIC BASE SERIES – 250 kgf SERIES

ULTRA HOLDING POWER 250 kgf (2500N)

01. To improve the defect of existing products and re-innovation:
 - Magnetic stand loose due to inadequate suction force and lead to dial indicator damage.
 - Adjust the fixed knob is easy to loosen and lead to adjust pole cannot really fixed.
 - Vertical pole lock with magnetic base solid link mechanism is poor and easy to broken & separate.
 - Its gauge head is locked tightly and unable to move and process its measuring function after dial indicator locking in the fine-tuning seat.
 - Magnetic base adsorption force is poor. It causes to loose and lead to dial indicator damage due to vibration and weight load when it adsorbs on the machine or sideways extend for the measurement. Poor measurement accuracy and could not do the repeatability of measurement.
02. Fixed adjustment knob using a special clamp design innovation, fine-tuning effortless and not easy to lose off.
03. The connected point of vertical pole and magnetic base was designed by special innovation. Not easy to split or disintegrate.
04. Powerful magnetic force generated the shock effect can avoid loose the measuring accuracy due to machine vibration.
05. Modular design, easy to replace the parts. Don't need to change new one when it broken, longer life.
06. Vertical $\phi 20\text{mm}$ pole and horizontal $\phi 15\text{mm}$ pole made of Stainless steel, well rigid and durable.
07. Indicator holder with universal joints, measurement range is wider. Applicable to variety indicators (Dovetail type, flat type, lug back type)
08. This product measuring length up to 1 M, 1 M arm extending its repeated measurement accuracy remains unchanged.
09. Ultra holding power magnetic base is our own R & D, excellent stability,
Magnetic force: 250 kgf. (2500N)
10. Looking for the magnetic stand of high accuracy and stability is none other than this product.
11. This product has a new invention and patent in Japan and multi-nation, counterfeiting.



V D TYPE



V L TYPE



V UD TYPE



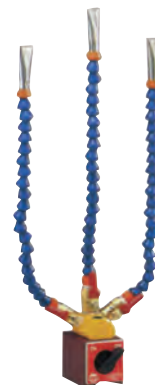
V UL TYPE



F “PRECISION TOOLS



MAGNETIC BASE SERIES



▲ ITEM NO. 56100160

- Magnetic lamp

▲ ITEM NO. 56100161

- Wheel dresser
- Magnetic base
- Dresser not included

▲ ITEM NO. 56100162

- Magnetic base with 2 coolant hoses, steel nozzles

▲ ITEM NO. 56100163

- Magnetic base with 3 coolant hoses, steel nozzles

UNIT:mm

ITEM NO.	MAGNETIC PULL	MAIN POLE		BULB ACCEPT	BASE DIMENSION			NET WEIGHT
		DIA	L		L	W	H	
56100160	80 kgf	20	460	AC110/220V	60	50	55	1.67 kgs
56100161	80 kgf	–	–	–	60	50	55	1.10 kgs
56100162	80 kgf	16	365	–	60	50	55	1.60 kgs
56100163	80 kgf	16	365	–	60	50	55	1.62 kgs



▲ ITEM NO. 56100165

- Magnetic base with 2 metal coolant hoses



▲ ITEM NO. 56100166

- Magnetic base with 3 metal coolant hoses

UNIT:mm

ITEM NO.	MAGNETIC PULL	MAIN POLE		BASE DIMENSION			NET WEIGHT
		DIA	L	L	W	H	
56100165	80 kgf	10	375	60	50	55	1.60 kgs
56100166	80 kgf	10	375	60	50	55	1.80 kgs



MAGNETIC BASE SERIES



▲ ITEM NO. 56100167

- Magnetic base only

▲ ITEM NO. 56100168

- Magnetic base only

▲ ITEM NO. 56100169

- Magnetic base only

▲ ITEM NO. 56100170

- Magnetic base only

FEATURES:

- Magnetic pull: It depends on the attractive face roughness and thickness of material plus the clearance between workpiece and the magnetic base.
- Ideal for setting-up specific device for special jobs.

ITEM NO.	MAGNETIC PULL	TAPPED HOLE	BASE DIMENSION			UNIT:mm
			L	W	H	NET WEIGHT
56100167	160 kgf	M8 × 1.25	120	50	55	2.00 kgs
56100168	100 kgf	M8 × 1.25	80	50	55	1.40 kgs
56100169	80 kgf	M8 × 1.25	60	50	55	1.00 kg
56100170	35 kgf	M8 × 1.25	63	40	49	0.61 kg



▲ ITEM NO. 56100171

- Mechanical arm



▲ ITEM NO. 56100172

- Mechanical arm



▲ ITEM NO. 56100173

- Mechanical arm

FEATURES:

- Push button ON-OFF as picture shown.
- Mechanical arm with indicator clamp fits dovetails and 8mm diameter stem.

ITEM NO.	MAGNETIC PULL	TAPPED HOLE	ARM LENGTH	BASE DIMENSION			UNIT:mm
				L	W	H	NET WEIGHT
56100171	35 kgf	M8 × 1.25	131	63	40	49	1.00 kg
56100172	17 kgf	M8 × 1.25	131	30	30	30	0.58 kg
56100173	30 kgf	M8 × 1.25	131	ø40 × 30			0.40 kg





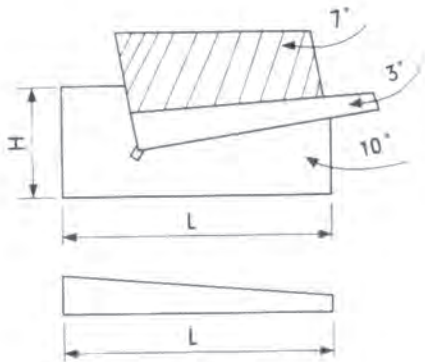
UNIVERSAL ANGLE BLOCK SETS



▲ ITEM NO. 56100228



▲ ITEM NO. 56100229



- No sine plate, sine vise, angle chart or gauge block needed!
- 8 pieces in a deluxe wooden box include: 10°, 15°, & 30° vee blocks and 5 angle plates-1° to 5°.
- Heat treated 45°- 50° HRC & ground to 10 sec.

ITEM NO.	W×H×L	N.W. (kgs)
56100228	1-3/16" × 1-3/16" × 3"	1.8
56100229	1-1/2" × 1-1/2" × 4"	3.6



PRECISION PARALLEL SETS

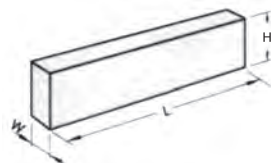


◀ ITEM NO. 56100202
(Set of 9 pairs)

- Hardness: HRC 50°-55°
- Size tolerance: $H \pm 0.005$ mm $L \pm 0.5$ mm
- Parallelism & Squareness: 0.001 mm
- Packed in plastic case.

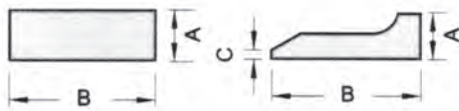
UNIT:mm

ITEM NO.	W×H×L×PCS
56100193	8.5×14×150×2
56100194	8.5×16×150×2
56100195	8.5×20×150×2
56100196	8.5×24×150×2
56100197	8.5×30×150×2
56100198	8.5×32×150×2
56100199	8.5×36×150×2
56100200	8.5×40×150×2
56100201	8.5×44×150×2





PRECISION PARALLEL SETS



< ITEM NO. 56100212 (Set of 9 pairs)

- Hardness: HRC 50°-55°
- Size tolerance: $H \pm 0.005$ mm $L \pm 0.5$ mm
- Parallelism & Squareness: 0.001 m/m
- 1 set includes 18 pcs
- Packed in plastic case.

UNIT:mm

ITEM NO.	BODY SIZE A × B × L × PCS
56100203	5 × 16 × 100 × 2
56100204	6 × 18 × 100 × 2
56100205	8 × 24 × 100 × 2
56100206	10 × 30 × 100 × 2
56100207	12 × 36 × 150 × 2
56100208	14 × 48 × 150 × 2
56100209	18 × 60 × 150 × 2
56100210	22 × 62 × 150 × 2

ITEM NO.	A × B × C × L × PCS
56100211	15 × 31 × 2.5 × 200 × 2



PRECISION GROUND PARALLEL SETS

FEATURES:

- To be used in setting-up work for drilling and measuring.
- Material: tool steel
- Hardness: HRC 50°-55°
- Accuracy: ± 0.005 mm parallelism in height
- Fitted in plastic case as picture shown or in wooden case.



< ITEM NO. 56100236 (Set of 6 pairs)

UNIT: mm

ITEM NO.	W × H × L × PCS
56100230	4.6 × 20 × 150 × 2
56100231	4.6 × 22 × 150 × 2
56100232	4.6 × 24 × 150 × 2

UNIT: mm

ITEM NO.	W × H × L × PCS
56100233	10 × 26 × 150 × 2
56100234	10 × 28 × 150 × 2
56100235	10 × 30 × 150 × 2



< ITEM NO. 56100251 (Set of 14 pairs)

UNIT: mm

ITEM NO.	W × H × L × PCS
56100237	10 × 14 × 150 × 2
56100238	10 × 16 × 150 × 2
56100239	10 × 18 × 150 × 2
56100240	10 × 20 × 150 × 2
56100241	10 × 22 × 150 × 2
56100242	10 × 24 × 150 × 2
56100243	10 × 26 × 150 × 2

UNIT: mm

ITEM NO.	W × H × L × PCS
56100244	10 × 28 × 150 × 2
56100245	10 × 30 × 150 × 2
56100246	10 × 32 × 150 × 2
56100247	10 × 35 × 150 × 2
56100248	10 × 40 × 150 × 2
56100249	10 × 45 × 150 × 2
56100250	10 × 50 × 150 × 2



F “PRECISION TOOLS



PRECISION GROUND PARALLEL SETS



< ITEM NO. 56100257 (Set of 5 pairs)

UNIT: mm

ITEM NO.	W x H x L x PCS	ITEM NO.	W x H x L x PCS
56100252	8.5 x 20 x 150 x 2	56100255	12.6 x 38 x 150 x 2
56100253	8.5 x 24 x 150 x 2	56100256	12.6 x 44 x 150 x 2
56100254	8.5 x 30 x 150 x 2		



< ITEM NO. 56100265 (Set of 7 pairs)

UNIT: mm

ITEM NO.	W x H x L x PCS	ITEM NO.	W x H x L x PCS
56100258	8.5 x 10 x 150 x 2	56100262	8.5 x 30 x 150 x 2
56100259	8.5 x 15 x 150 x 2	56100263	12.6 x 38 x 200 x 2
56100260	8.5 x 20 x 150 x 2	56100264	12.6 x 44 x 200 x 2
56100261	8.5 x 24 x 150 x 2		



< ITEM NO. 56100272 (Set of 6 pairs)

UNIT: mm

ITEM NO.	W x H x L x PCS	ITEM NO.	W x H x L x PCS
56100266	4.6 x 32 x 150 x 2	56100269	4.6 x 38 x 150 x 2
56100267	4.6 x 34 x 150 x 2	56100270	4.6 x 40 x 150 x 2
56100268	4.6 x 36 x 150 x 2	56100271	4.6 x 44 x 150 x 2



PRECISION GROUND PARALLEL SETS



< ITEM NO. 56100280 (Set of 7 pairs)

UNIT: mm

ITEM NO.	W x H x L x PCS
56100273	6.8 x 15 x 150 x 2
56100274	6.8 x 18 x 150 x 2
56100275	6.8 x 21 x 150 x 2
56100276	6.8 x 25 x 150 x 2

ITEM NO.	W x H x L x PCS
56100277	6.8 x 27 x 150 x 2
56100278	6.8 x 31 x 150 x 2
56100279	6.8 x 35 x 150 x 2



< ITEM NO. 56100285 (Set of 4 pairs)

UNIT: mm

ITEM NO.	W x H x L x PCS
56100281	8 x 24 x 200 x 2
56100282	12 x 36 x 200 x 2

ITEM NO.	W x H x L x PCS
56100283	22 x 40 x 200 x 2
56100284	15 x 31 x 205 x 200 x 2



< ITEM NO. 56100322 (Set of even size of height)

< ITEM NO. 56100323 (Set of odd size of height)

UNIT: mm

ITEM NO.	W x H x L x PCS
56100286	8 x 16 x 150 x 2
56100288	8 x 18 x 150 x 2
56100290	8 x 20 x 150 x 2
56100292	8 x 22 x 150 x 2
56100294	8 x 24 x 150 x 2
56100296	8 x 26 x 150 x 2
56100298	8 x 28 x 150 x 2
56100300	8 x 30 x 150 x 2
56100302	8 x 32 x 150 x 2
56100304	8 x 34 x 150 x 2
56100306	8 x 36 x 150 x 2
56100308	8 x 38 x 150 x 2
56100310	8 x 40 x 150 x 2
56100312	8 x 42 x 150 x 2
56100314	8 x 44 x 150 x 2
56100316	8 x 46 x 150 x 2
56100318	8 x 48 x 150 x 2
56100320	8 x 50 x 150 x 2

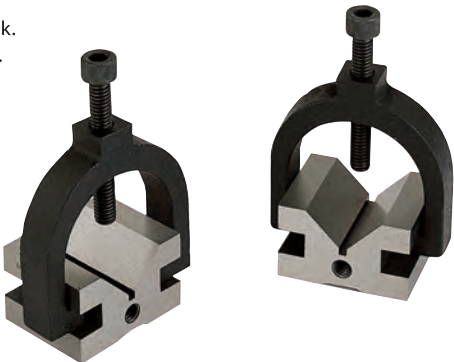
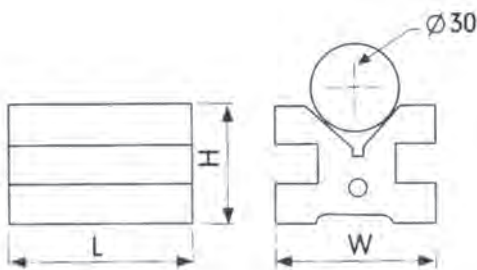
ITEM NO.	W x H x L x PCS
56100287	8 x 17 x 150 x 2
56100289	8 x 19 x 150 x 2
56100291	8 x 21 x 150 x 2
56100293	8 x 23 x 150 x 2
56100295	8 x 25 x 150 x 2
56100297	8 x 27 x 150 x 2
56100299	8 x 29 x 150 x 2
56100301	8 x 31 x 150 x 2
56100303	8 x 33 x 150 x 2
56100305	8 x 35 x 150 x 2
56100307	8 x 37 x 150 x 2
56100309	8 x 39 x 150 x 2
56100311	8 x 41 x 150 x 2
56100313	8 x 43 x 150 x 2
56100315	8 x 45 x 150 x 2
56100317	8 x 47 x 150 x 2
56100319	8 x 49 x 150 x 2
56100321	8 x 51 x 150 x 2



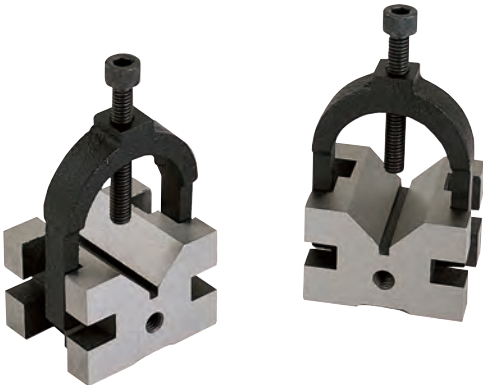
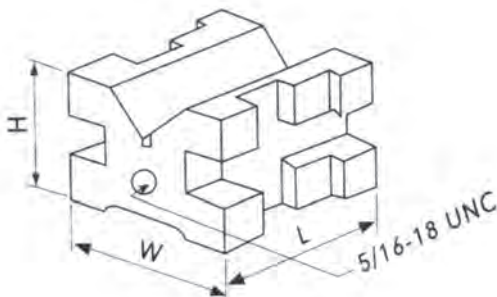


V-BLOCKS AND CLAMP SETS

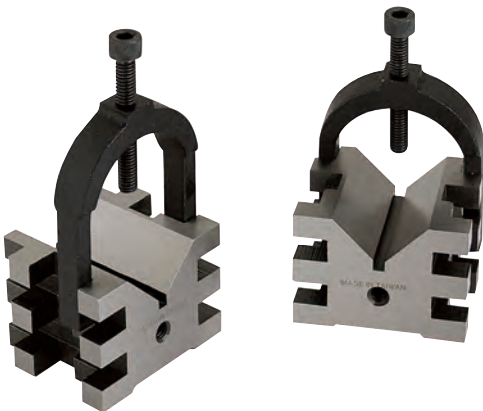
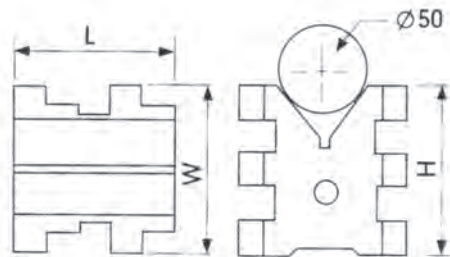
- FEATURES:**
- All sides are precision ground and parallel to each other.
 - Sturdy enough to be used in machining operations.
 - Matched accuracy ±0.01mm.
 - Accurate enough to be used in layouts and surface plate work.
 - 90 degree V's are ground central parallel & square to the end.



ITEM NO. 56100324



ITEM NO. 56100325



ITEM NO. 56100326

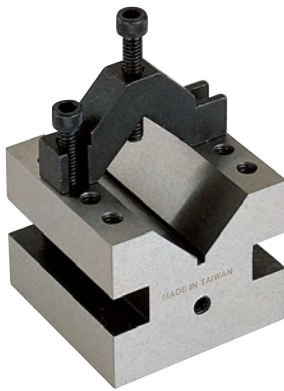
UNIT: mm			
ITEM NO.	W x H x L	VEE CAPACITY	N.W.
56100324	40 x 30 x 50 (1.57 x 1.18 x 1.96")	30	1.0 kg
56100325	50 x 40 x 60 (1.96 x 1.57 x 2.36")	40	1.5 kgs
56100326	60 x 50 x 70 (2.36 x 1.86 x 2.75")	50	2.3 kgs



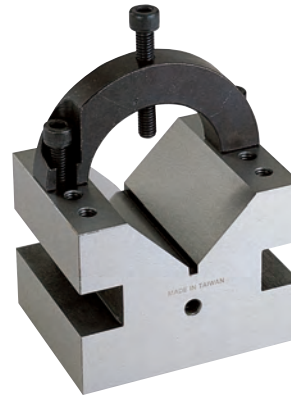
V-BLOCKS AND CLAMP SETS

FEATURES:

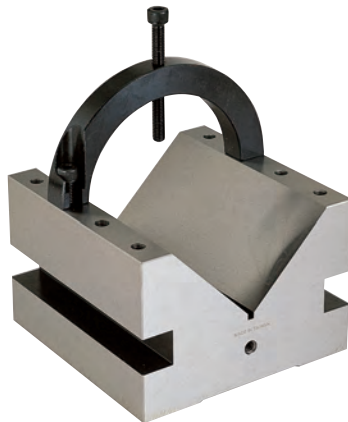
- All sides are precision ground and parallel to each other.
- Sturdy enough to be used in machining operations.
- Matched accuracy $\pm 0.01\text{mm}$.
- Accurate enough to be used in layouts and surface plate work.
- 90 degree V's are ground central parallel & square to the end.



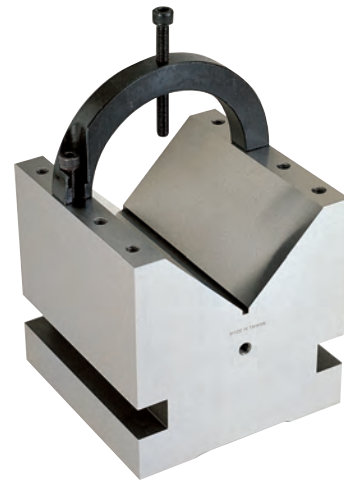
ITEM NO. 56100327



ITEM NO. 56100328



ITEM NO. 56100329



ITEM NO. 56100330

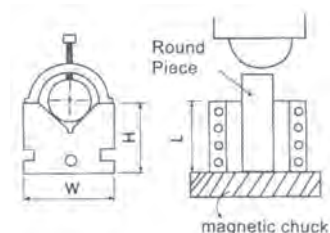
ITEM NO. 56100327-8

- Material: Tool Steel
- Accuracy: $\pm 0.01\text{mm}$
- Hardness: 55°-60°

ITEM NO. 56100329-30

- Material: Tool Steel
- Accuracy: $\pm 0.015\text{mm}$
- Hardness: 45°-50°

UNIT: inch			
ITEM NO.	W x H x L	CAPACITY	N.W.
56100327	2-1/2 x 2 x 2-1/2	1-3/8	1.4 kgs
56100328	4 x 3 x 3	2-1/4	4.0 kgs
56100329	4 x 6 x 6	4-3/8	13.5 kgs
56100330	6 x 6 x 6	4-3/8	24 kgs

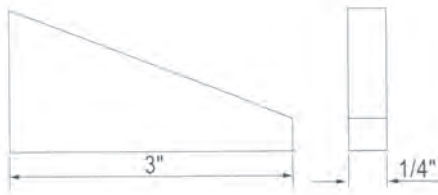


F “PRECISION TOOLS



ANGLE BLOCK SETS

- Furnished in 1° increment to 5° and in 5° increments to 30°. With the addition of the optional 1/4 and 1/2 blocks virtually and conceivable angle to these increments can be established.
- Simple, quick angle set-ups.
- Eliminates calculations, avoids errors.
- Lightly magnetized for better holding.
- Manufactured of steel, hardened, stabilized and ground.
- Size: 3" long x 1/4" thick,
- Accuracy: 0.001" per inch.
- Oil-hardened steel, precision ground.



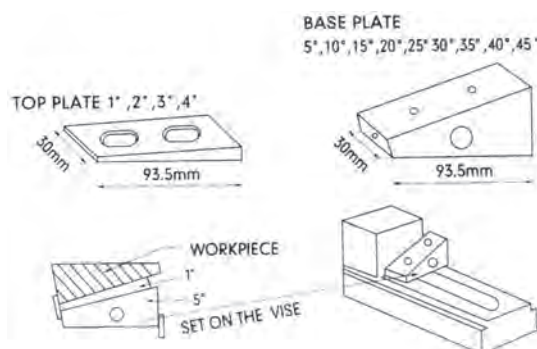
ITEM NO.	ANGLE DEGREE	N.W
56100331	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°, -10PCS	1 Kg
56100332	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°, -12PCS	1.1 Kgs



PRECISION ANGLE BLOCK SET

- Assembles the top plate on base plate to reach angles from 6° to 49°.
- SK2 Alloy steel.
- Hardness: HRC 55°-58°.
- Angle tolerance: 0.02mm.

APPLICATION:



ITEM NO.	ANGLE DEGREE	N.W
56100333	TOP PLATE: 1°, 2°, 3°, 4° – 4 PCS BASE PLATE: 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45° – 9 PCS	7.2 kgs



SOLID ANGLE PLATES

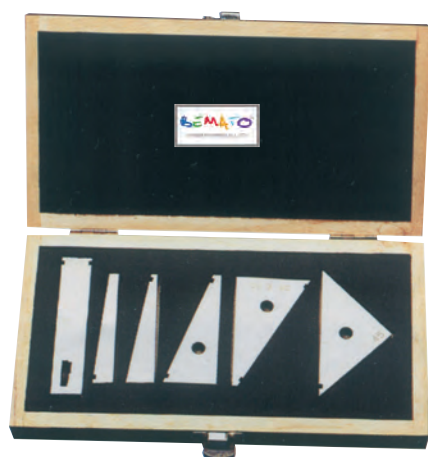


< ITEM NO. 56100334

- Precision ground angles for convenient set-up in tooling, production and inspection.
- Four holes on top of it for easy mounting.
- 1/4" thick, packed in cardboard box.
- Set of 3"x3"x4"-3/8, 45°/45°/90°x1PC, 2"x3-15/32"x4", 30°/60°/90°x1PC



MICROMETRIC TANGENT BAR & ANGLE GAUGE BLOCK SET



< ITEM NO. 56100335

- Made of hardened steel, precision ground.
- Accuracy ± 0.0001 " per inch
- Interlocking slots.
- Size of angle blocks: 0.35" x 3"
- No other gauges required.
- 1 micrometric tangent bar.
- 5 angle blocks (5°, 10°, 20°, 30°, 45°)
- Complete with fitted case.

APPLICATION:

- Fast and easy angular set-up.
- Adjust angle direct in degrees and minutes.
- Secure assembly by inserting 1/8" dowel or square key into slot.



STAINLESS STEEL PRECISION TOOLS



^ ITEM NO.56100386

- Fine-pole stainless permanent magnetic chuck



^ ITEM NO.56100387

- Fine-pole square angle stainless permanent magnetic chuck





STAINLESS STEEL PRECISION TOOLS



▲ ITEM NO. 56100388

- Fine-pole sine permanent magnetic chuck



▲ ITEM NO. 56100389

- System application magnetic chuck
- For 3R & EROWA



< ITEM NO. 56100390

- Durable type stainless punch forming machine



▲ ITEM NO. 56100392

- Full stainless sand wheel dresser



< ITEM NO. 56100383~56100384

- Full stainless comparator platform



▲ ITEM NO. 56100394

- Full stainless wire-cut vise



▲ ITEM NO. 56100395

- Full stainless sine magnetic gauge



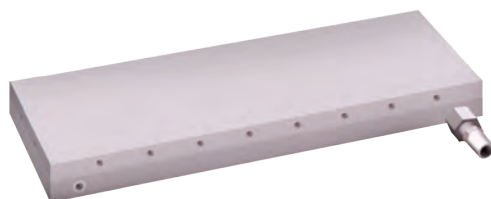
FINE-POLE STAINLESS STEEL TWO-WAY SINE PERMANENT MAGNETIC CHUCK



▲ ITEM NO. 56100396



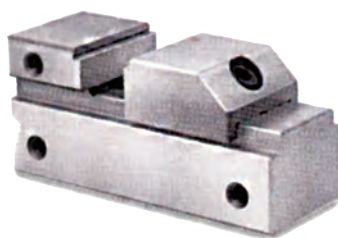
STAINLESS STEEL VACUUM ADSORBING WORKING PLATFORM



▲ ITEM NO. 56100397



TOOL MAKERS VISE (STAINLESS STEEL)



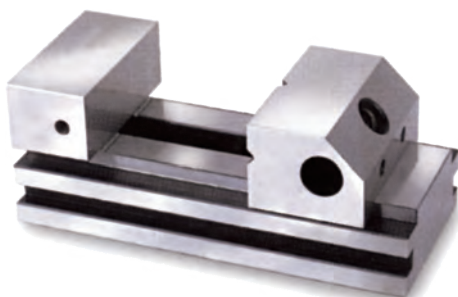
▲ ITEM NO. 53100173



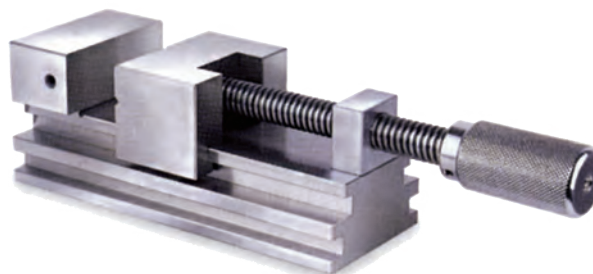
▲ ITEM NO. 53100174



▲ ITEM NO. 53100175



▲ ITEM NO. 53100176~53100177

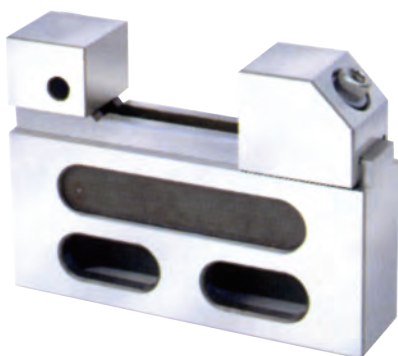


▲ ITEM NO. 53100178

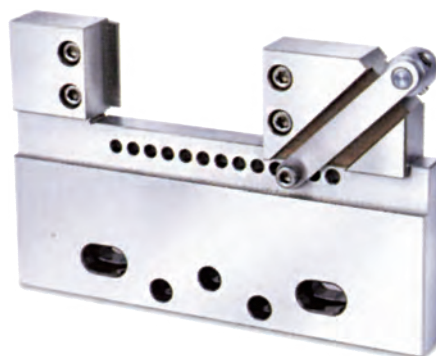




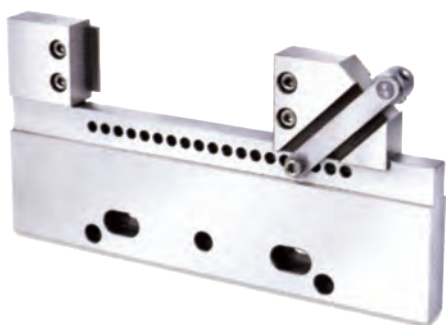
PRECISION VISE OF STAINLESS STEEL FOR EDM



▲ ITEM NO. 53100179



▲ ITEM NO. 53100180



▲ ITEM NO. 53100181



▲ ITEM NO. 53100182



T TYPE CLAMP

• STAINLESS STEEL



▲ ITEM NO. 56100398



HIGH PRESSURE CLAMP

• STAINLESS STEEL



▲ ITEM NO. 56100399



CONCENTRICITY GAUGES



✓ ITEM NO. 56100441, METAL BASE
• CAST IRON TAILTOCK



✓ ITEM NO. 56100442, METAL BASE
• CAST IRON TAILTOCK



✓ ITEM NO. 56100443, METAL BASE
• CAST IRON TAILTOCK



✓ ITEM NO. 56100444, METAL BASE
• CAST IRON TAILTOCK

UNIT: mm

ITEM NO.	CENTER HEIGHT	CONCENTRIC ACCURACY	ROUNDNESS ACCURACY	L x W x H	PARTS DIAMETER	PARTS LENGTH	BASIC WEIGHT (kgs)	WEIGHT LOADED (kgs)
56100441	80	0.003	0.003	280 x 130 x 150	Ø2~30	0~120	8.8	6
56100442	80	0.003	0.003	300 x 200 x 130	Ø2~30	0~120	9.4	6
56100443	80	0.003	0.003	300 x 200 x 130	Ø2~30	0~120	9.8	6
56100444	80	0.003	0.003	300 x 200 x 130	Ø3~40	0~150	13	10

- Tailstock use high graded cast iron.
- Use for small parts such as shaft, tube, bush, screw etc... deflection and concentricity measuring inspection.
- Equip with top press roller and parts stopper.
- Dovetail type dial gauge is not included.



▲ ITEM NO. 56100445

- Metal case.
- X axis slide moves and positions easily.
- Two indicator stands can be put on any pos.
- Deflection & concentricity measurement.
- Inner and outer diameter measure simultaneously.



▲ ITEM NO. 56100446

- Granite case.
- Measuring with height gauge.
- Indicator stand is not included.
- For small shaft and parts measurement.
- For measuring deflection only.

UNIT: mm

ITEM NO.	CENTER HEIGHT	CONCENTRIC ACCURACY	ROUNDNESS ACCURACY	L x W x H	PARTS DIAMETER	PARTS LENGTH	BASIC WEIGHT (kgs)	WEIGHT LOADED (kgs)
56100445	90	0.003	0.003	300 x 200 x 140	Ø5~70	0~150	15	10
56100446	90	0.003	0.003	300 x 300 x 160	Ø5~70	0~150	25	10

- Tailstock use high graded cast iron.
- Use for small parts such as shaft, tube, bush, screw... etc deflection and concentricity measuring inspection.
- Equip with top press roller and parts stopper.
- Dovetail type dial gauge is not included.





CONCENTRICITY GAUGES



V ITEM NO. 56100447

- Granite case.
- Y axis with slide table.
- For measuring deflection only.



V ITEM NO. 56100448

- Granite case.
- X axis slide moves and positions easily.
- Two indicator stands can be put on any pos.
- For small shaft and parts measurement.
- Inner and outer diameter measure simultaneously.

UNIT: mm

ITEM NO.	CENTER HEIGHT	CONCENTRIC ACCURACY	ROUNDNESS ACCURACY	L x W x H	PARTS DIAMETER	PARTS LENGTH	BASIC WEIGHT (kgs)	WEIGHT LOADED (kgs)
56100447	90	0.003	0.003	300 x 200 x 160	Ø5~70	0~150	18	10
56100448	90	0.003	0.003	300 x 200 x 160	Ø5~70	0~150	20	10

- Tailstock use high graded cast iron.
- Use for small parts such as shaft, tube, bush, screw etc... deflection and concentricity measuring inspection.
- Equip with top press roller and parts stopper.
- Dovetail type dial gauge is not included.

FOR SHORT SHAFT



V ITEM NO. 56100449

- Base & tailstock use cast iron.
- Adapt heavy loaded bearing.
- X axis is movable indicator stand.
- For multi-stage I.D. & O.D. concentricity inspection.
- Attached T-slot.



V ITEM NO. 56100450

- Base & tailstock use cast iron.
- Adapt heavy loaded bearing.
- Y axis comes with slide table.
- Y axis can be moved forward and backward.
- Attached T-Slot.



V ITEM NO. 56100451

- Base & tailstock use cast iron.
- Adapt heavy loaded bearing.
- Y axis comes with slide table.
- Attached two indicator stands.
- Inner and outer diameter measure simultaneously.

UNIT: mm

ITEM NO.	CENTER HEIGHT	CONCENTRIC ACCURACY	ROUNDNESS ACCURACY	L x W x H	PARTS DIAMETER	BASIC WEIGHT (kgs)	WEIGHT LOADED (kgs)
56100449	125	0.003	0.003	590 x 300 x 204	Ø5~100	33	30
56100450	90	0.003	0.003	590 x 300 x 165	Ø5~100	32	10
56100451	90	0.003	0.003	590 x 300 x 165	Ø5~100	32	10

- Dovetail type dial gauge is not included.
- Available for long shaft measuring inspection.
- Equip with top press roller and parts stopper.



CONCENTRICITY GAUGES

FOR LONG SHAFT



ITEM NO. 56100452

- X, Y axes dual slide type.
- Y axis with slide table.
- X axis attach extra indicator stand for concentricity measurement.
- For multi-stage I.D. & O.D. concentricity inspection.



ITEM NO. 56100453

- X, Y, Z axes dual slide type.
- Height adjustable tailstock.
- Y axis with slide table.
- Z axis Z2 with drive wheel.
- For multi-stage I.D. & O.D. concentricity inspection.



ITEM NO. 56100454

- X, Y axes dual slide type.
- Attached electric motor.
- Y axis with slide table.
- X axis with drive wheel.
- For multi-stage I.D. & O.D. concentricity inspection.

UNIT: mm

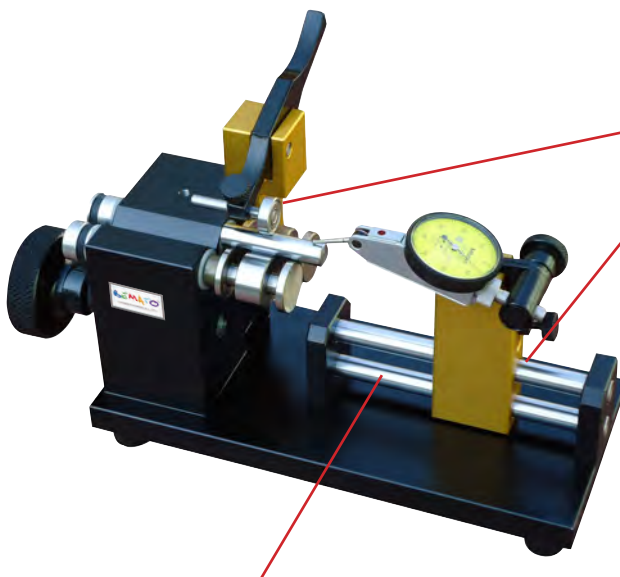
ITEM NO.	CENTER HEIGHT	CONCENTRIC ACCURACY	ROUNDNESS ACCURACY	L x W x H	PARTS DIAMETER	BASIC WEIGHT (kgs)	WEIGHT LOADED (kgs)
56100452	90	0.003	0.003	590 x 300 x 165	Ø5~100	44	10
56100453	90	0.003	0.003	590 x 300 x 165	Ø5~100	50	10
56100454	90	0.003	0.003	590 x 300 x 165	Ø5~100	44	10

- Dovetail type dial gauge is not included.
- Available for long shaft measuring inspection.
- Equip with top press roller and parts stopper.



CONCENTRICITY GAUGES – BALL BEARING SLIDE

- To measure concentricity / eccentricity.
- Rollers' Material SKD-11, HRC60°.



STANDARD:

- The innovation of ball bearing slide.
- Light and handy.

ITEM NO. 56100455

- Shaft: Made in Japan.
- Surface Treatment : Cr Plated, Anti-rust Protection ↑

UNIT: mm

ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100455	ø1~ø30	0.002	260 x 98 x 110	2.5





CONCENTRICITY GAUGES – BALL BEARING SLIDE

- Universal arm magnetic base can be put at any place on concentricity gauge's platform.
- To test different parts at the same time when you use many magnetic bases together.

UNIT: mm				
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100456	ø1~ø40	0.002	390 × 98 × 110	4.5



ITEM NO. 56100456

- It combined 56100455 & 56100456.
- Quick-measuring and test different parts at the same time.

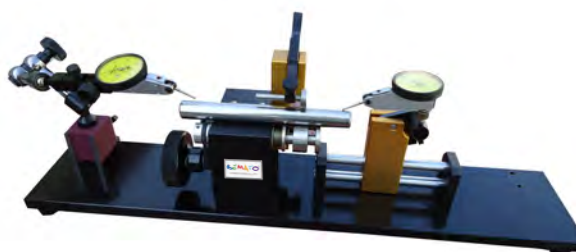
UNIT: mm				
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100457	ø1~ø35	0.002	390 × 98 × 110	5.2



ITEM NO. 56100457

- Extension of 56100457.
- To measure workpiece's front-side and back-side at the same time.

UNIT: mm				
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100458	ø1~ø35	0.002	500 × 98 × 120	6.5



ITEM NO. 56100458

- Extension of 56100457
- New innovation for measuring bigger outer diameter and short workpiece.
- To measure workpiece's front-side and back-side at the same time.

UNIT: mm				
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100459	ø30~ø90	0.002	330 × 140 × 95	8.5



ITEM NO. 56100459



CONCENTRICITY GAUGES – BALL BEARING SLIDE

- Double-way axes & double dial gauges.
- In addition to front-way measuring, it can measure the object's side-way.

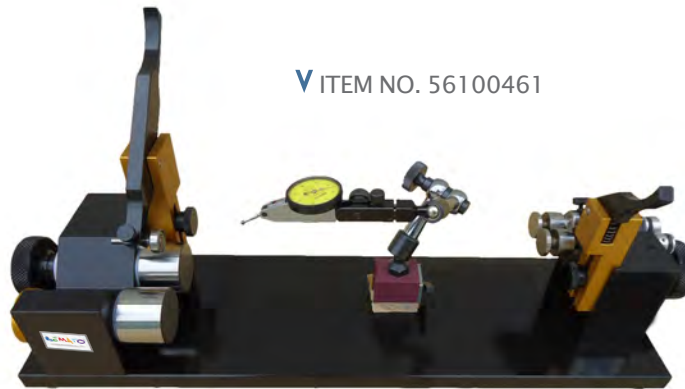
UNIT: mm				
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100460	ø1~ø35	0.002	260 × 170 × 150	4.2



ITEM NO. 56100460

ITEM NO. 56100461

Clip O.D. : 30~90 mm



Clip O.D. : 1~40 mm

UNIT: mm				
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100461	ø1~ø90	0.002	520 × 140 × 200	18.5



CONCENTRICITY GAUGES – LINEAR GUIDE

STRAIGHTNESS: < 0.01 mm

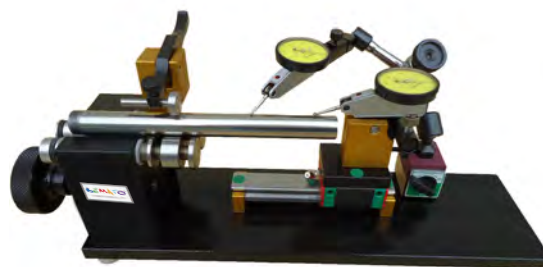
- Innovation of the combination of "Linear Guide, which provides more accurate precision and higher stability.
- The "Linear Guide" can also measure the workpiece's "straightness" precisely.
- 56100462: SUPREME

UNIT: mm				
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100462	ø1~ø30	0.002	260 × 98 × 110	3



ITEM NO. 56100462

UNIT: mm				
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100463	ø1~ø35	0.002	390 × 98 × 111	5.2



ITEM NO. 56100463



PRECISION TOOLS



CONCENTRICITY GAUGES – LINEAR GUIDE

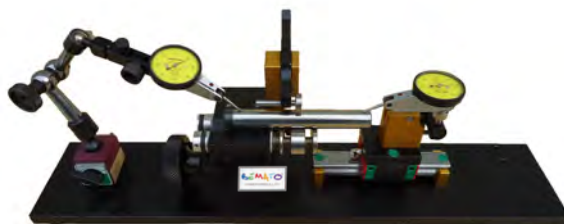
STRAIGHTNESS: < 0.01 mm

- Innovation of the combination of "Linear Guide", which provides more accurate precision and higher stability.
- The "Linear Guide" can also measure the workpiece's "straightness" precisely.

UNIT: mm

ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100464	ø1~ø35	0.002	500 × 98 × 120	6.5

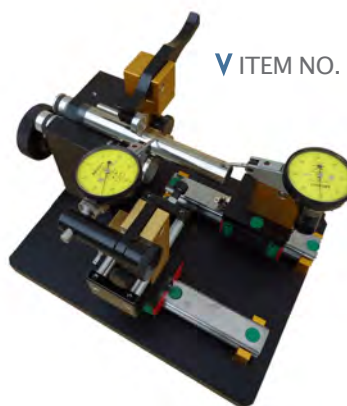
V ITEM NO. 56100464



UNIT: mm

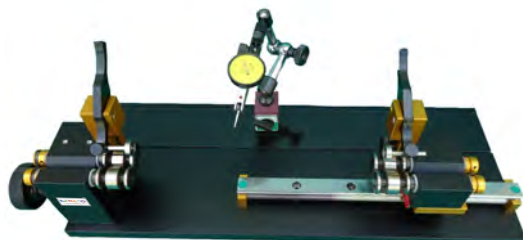
ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100465	ø1~ø35	0.002	260 × 170 × 150	4.2

V ITEM NO. 56100465



CONCENTRICITY GAUGES – DOUBLE HEAD CLIP WITH LINER GUIDE (NEW PATENT)

V ITEM NO. 56100466 (300 mm–Effective Length)



UNIT: mm

ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100466	ø1~ø40	0.002	600 × 200 × 250	10

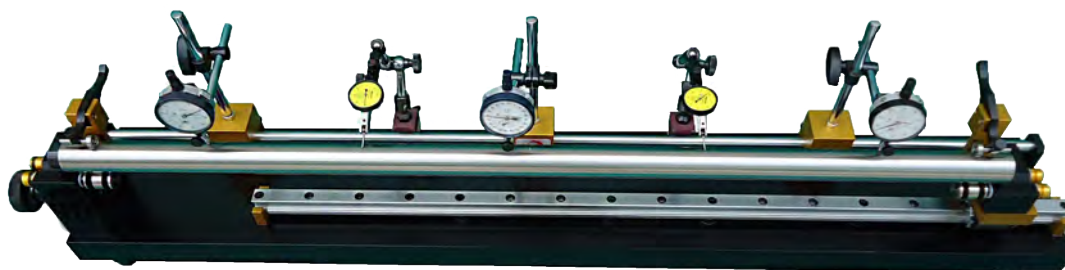
V ITEM NO. 56100467 (600 mm–Effective Length)



UNIT: mm

ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100467	ø1~ø40	0.002	850 × 190 × 350	20

V ITEM NO. 56100468 (1000 mm–Effective Length)



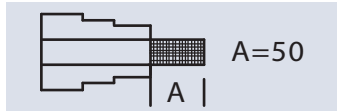
UNIT: mm

ITEM NO.	CLIP OUTER DIA.	PRECISION	SIZE	WEIGHT (kgs)
56100468	ø1~ø40	0.002	1250 × 190 × 350	38



MULTIPLE FUNCTION GAUGES

- First ball bearing slip fit.
- First titanium-plated clip.
- Shorten tooling adjustment time.
- Reduce material loss.
- Reduce tooling consumption.
- Extend tooling life.
- Improve product quality.

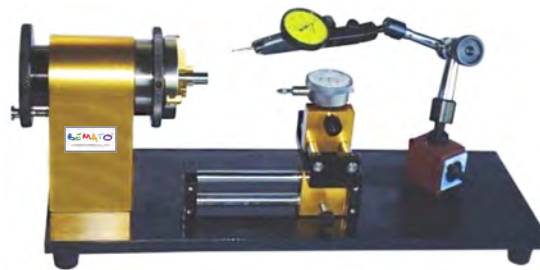
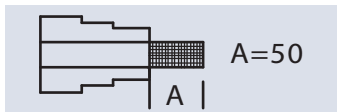


ITEM NO. 56100469

UNIT: mm

ITEM NO.	CLIP OUTER DIA.	CLIP INSIDE DIA.	EFFECTIVE LENGTH	TOLERANCE	SIZE	WEIGHT (kgs)
56100469	ø2~ø16	ø10~ø25	50	±0.02	320 × 140 × 170	4.5

- First ball bearing slip fit.
- First titanium-plated clip.
- Shorten tooling adjustment time.
- Reduce material loss.
- Reduce tooling consumption.
- Extend tooling life.
- Improve product quality.



ITEM NO. 56100470

UNIT: mm

ITEM NO.	CLIP OUTER DIA.	CLIP INSIDE DIA.	EFFECTIVE LENGTH	TOLERANCE	SIZE	WEIGHT (kgs)
56100470	ø2~ø16	ø10~ø25	50	±0.02	415 × 140 × 170	7

- Like 56100469, but the side-way dial gauge is double-way lever watch.



ITEM NO. 56100471



F5 - CONCENTRICITY GAUGES & BENCH CENTERS

PRECISION TOOLS

F “PRECISION TOOLS



PRECISION BENCH CENTERS

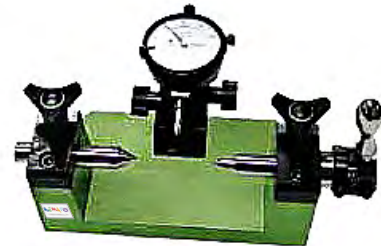
SMALL TYPE



✓ ITEM NO. 56100472
• 100 mm



✓ ITEM NO. 56100476
• 0~75 mm



✓ ITEM NO. 56100475
• 0~75 mm



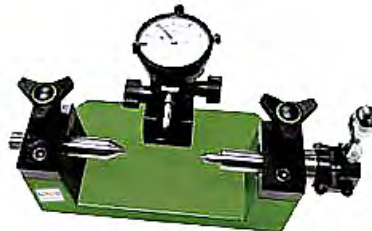
✓ ITEM NO. 56100473
• 100 /150 mm



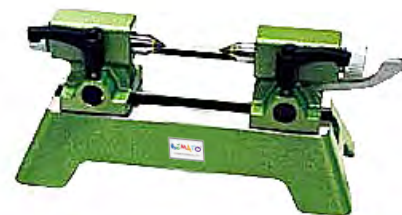
✓ ITEM NO. 56100474
• 100 /150 mm



✓ ITEM NO. 56100477
• 50~150 mm



✓ ITEM NO. 56100478
• 50~150 mm



✓ ITEM NO. 56100484
• 100 mm

UNIT: mm

ITEM NO.	CENTER DISTANCE	CENTER HEIGHT	HORIZONTAL PARALLELISM	VERTICAL PARALLELISM	L x W x H	MORSE TAPPER	WEIGHT (kgs)	MAXIMUM SWING	WEIGHT LOADED (kgs)
56100472	100	45	0.003	0.003	148 x 85 x 205	SKDØ12	9	Ø90	6
56100473	100	50	0.003	0.003	205 x 85 x 98	SKDØ12	7	Ø100	6
56100474	100	50	0.003	0.003	205 x 85 x 98	SKDØ12	7	Ø100	6
56100476	0~75	40	0.003	0.003	138 x 114 x 70	SKDØ12	3.2	Ø80	4
56100477	50~150	40	0.003	0.003	175 x 114 x 73	SKDØ12	4.5	Ø80	4
56100475	0~75	40	0.003	0.003	138 x 114 x 70	SKDØ12	3.7	Ø80	4
56100478	50~150	40	0.003	0.003	175 x 114 x 73	SKDØ12	5.0	Ø80	4
56100484	100	45	0.005	0.003	250 x 115 x 115	Ø16C08	9	Ø90	6

• Dial gauge is not included.



PRECISION BENCH CENTERS

ECONOMIC TYPE



▲ ITEM NO. 56100479~56100479-8

- Center distance: 200~4000 mm



▲ ITEM NO. 56100480

- Center distance: 300 mm only
- Center height: 80 mm



▲ ITEM NO. 56100481 (V-block & Thimble)

- Center distance: 300 mm only
- Center height: 80 mm
- V-block parts range: 4~22 mm



▲ ITEM NO. 56100482 (Thimble: V-block & Roller)

- Center distance: 300 mm only
- Center height: 80 mm
- V-block parts range: 4~22 mm
- Roller parts range: 5~100 mm



▲ ITEM NO. 56100483 (Roller type)

- Center distance: 300 mm only
- Center height: 80 mm
- Parts range: 5~100 mm

UNIT: mm

ITEM NO.	CENTER DISTANCE	CENTER HEIGHT	HORIZONTAL PARALLELISM	VERTICAL PARALLELISM
56100479	200	90	0.010	0.015
56100479-1	300	90	0.010	0.015
56100479-2	400	130	0.012	0.018
56100479-3	600	130	0.015	0.020
56100479-4	800	130	0.015	0.020
56100479-5	1000	130 / 200 / 300	0.015	0.025
56100479-6	1200	130 / 200 / 300	0.015	0.025
56100479-7	1500	200 / 300	0.020	0.030
56100479-8	2000	200 / 300	0.025	0.035

UNIT: mm

ITEM NO.	L x W x H	MORSE TAPPER	WEIGHT (kgs)	MAXIMUM SWING	WEIGHT LOADED (kgs)
56100479	490 x 185 x 175	MT2C14	27	Ø180	25
56100479-1	590 x 195 x 175	MT2C14	36	Ø180	25
56100479-2	730 x 205 x 241	MT3C18	68	Ø260	60
56100479-3	930 x 220 x 250	MT3C18	91	Ø260	60
56100479-4	1130 x 220 x 250	MT3C18	99 / 117 / 153	Ø260	60
56100479-5	1330 x 220 x 262 (338 / 442)	MT3C18	116 / 134 / 170	Ø260 / Ø400 / Ø600	60 / 85 / 85
56100479-6	1530 x 220 x 262 (338 / 442)	MT3C18	164 / 182 / 218	Ø260 / Ø400 / Ø600	60 / 85 / 85
56100479-7	1830 x 220 x 282 (358 / 462)	MT4C18	223 / 241 / 277	Ø400 / Ø600	85 / 85
56100479-8	2360 x 220 x 302 (378 / 482)	MT4C18	339 / 357 / 393	Ø400 / Ø600	85 / 85

UNIT: mm

ITEM NO.	CENTER DISTANCE	CENTER HEIGHT	HORIZONTAL PARALLELISM	VERTICAL PARALLELISM	L x W x H	MORSE TAPPER	WEIGHT (kgs)	MAXIMUM SWING	WEIGHT LOADED (kgs)
56100480	300	80	0.01	0.015	545 x 135 x 156	Ø16C08	14.7	Ø160	25
56100481	300	80	0.01	0.015	730 x 135 x 174	Ø16C08	15.4	Ø160	25
56100482	300	80	0.01	0.015	545 x 135 x 174	Ø16C08	18.8	Ø160	25 / 40
56100483	300	80	0.01	0.015	545 x 135 x 96	-	14.5	Ø160	40

- Dial gauge is not included.



F “PRECISION TOOLS



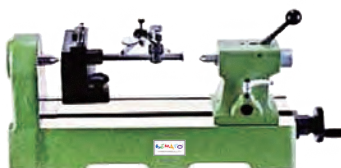
PRECISION BENCH CENTERS – PROFESSIONAL THIMBLE TYPE

VERTICAL & HORIZONTAL TYPE



▲ ITEM NO. 56100486 (300mm),
56100486-1 (380 mm)

- Vertical & horizontal type.
- Y axis w/ slide table, moving tailstock by drive wheel.
- Center distance: 300 mm, 380 mm only.



▲ ITEM NO.
56100485 (200 mm),
56100485-1 (300 mm)

- Vertical & horizontal type.
- Venter distance: 200 mm, 300 mm only.



▲ ITEM NO.
56100486-2 (200 mm),
56100486-3 (300 mm)

- Vertical & horizontal type.
- Center distance: 200 mm, 300 mm only.
- Equip with gauge stand.

UNIT: mm										WEIGHT LOADED (kgs)
CENTER DISTANCE	CENTER HEIGHT	HORIZONTAL PARALLELISM	VERTICAL PARALLELISM	L x W x H	UPPER MT	LOWER MT	BASIC WEIGHT (kgs)	MAXIMUM SWING		
200	80	0.004	0.005	330 x 120 x 160	MT1	MT3	22	Ø160		12
300	90	0.004	0.006	560 x 200 x 230	MT1C18	MT3C18	56	Ø180		25
380	130	0.005	0.008	680 x 200 x 270	MT2C14	MT3C18	78	Ø260		60

- Center height 90 can be used with MT2C14 center height 130 can be used with MT3C18---- customer optional.
- Beyond these specifications can be special ordered. center distance maximum 600 mm.
- Dial gauge is not included.

SINE TYPE

- X, Y axes dual-slide type.
- Angle measurement base on center, suitable for detection of arbor and tapered.
- Applies to the processing site, tool rooms, laboratories, machine tools shop.
- X axis linear slide has fast horizontal movement.
- Y axis slide table can move back and forth rapidly to, repeated location and quickly place workpiece.
- Z axis equip with fine adjustment.
- Specially use for the inspection of mass production.



▲ ITEM NO.
56100487 (200 mm),
56100487-1 (300 mm)

UNIT: mm										WEIGHT LOADED (kgs)
CENTER DISTANCE	CENTER HEIGHT	HORIZONTAL PARALLELISM	VERTICAL PARALLELISM	ANGLE MEASURING ACCURACY	L x W x H	MORSE TAPPER	BASIC WEIGHT (kgs)	MAXIMUM SWING		
200	90	0.003	0.005	0.002	550 x 210 x 220	MT2C14	56	Ø180		25
300	90	0.003	0.005	0.002	650 x 210 x 220	MT2C14	76	Ø180		25

- Center height 90 can be used with MT2C14 (optional).
- Beyond these specifications can be special ordered. Center distance maximum is 3000 mm.
- Dial gauge is not included.



COMPARATOR STANDS

GRANITE GRADUATION: 00 GRADE



- ▲ ITEM NO.
56100488, 300×300×70 mm
56100489, 200×300×50 mm
56100490, 600×450×75 mm
- Horizontal accuracy: 0.005/100 mm
 - Vertical accuracy: 0.005/100 mm
 - Vertical stem diameter: 20 mm
 - Vertical stem length: 225 mm
 - Repeat accuracy: 0.002 mm



- ▲ ITEM NO.
56100491, 200×300×50 mm
56100492, 200×150×50 mm
- Horizontal accuracy: 0.005/100 mm
 - Vertical accuracy: 0.005/100 mm
 - Vertical stem diameter: 30 mm
 - Vertical stem length: 230 mm
 - Repeat accuracy: 0.002 mm



- ▲ ITEM NO.
56100493, 200×150×50 mm
56100494, 200×300×50 mm
- Attached Micrometer head
 - Horizontal accuracy: 0.005/100 mm
 - Vertical accuracy: 0.005/100 mm
 - Vertical stem diameter: 30 mm
 - Vertical stem length: 230 mm
 - Repeat accuracy: 0.001 mm
 - Adjust travel: ±6 mm



- ▲ ITEM NO.
56100495, 75×75×20 mm
- Attached micrometer head
 - Adjust travel: ±6 mm
 - Horizontal accuracy: 0.005/100 mm
 - Vertical accuracy: 0.005/100 mm
 - Vertical stem diameter: 30 mm
 - Vertical stem length: 230 mm
 - Repeat accuracy: 0.001 mm



- ▲ ITEM NO.
56100496, 200×300×50 mm
56100497, 200×150×50 mm
- Adjust travel: ±3 mm
 - Horizontal accuracy: 0.005/100 mm
 - Vertical accuracy: 0.005/100 mm
 - Vertical stem diameter: 30 mm
 - Vertical stem length: 230 mm
 - Repeat accuracy: 0.001 mm
 - Micro indicator seat



- ▲ ITEM NO.
56100499, 200×150×50 mm
56100498, 200×300×50 mm
- Horizontal accuracy: 0.005/100 mm
 - Vertical accuracy: 0.005/100 mm
 - Vertical stem diameter: 25 mm
 - Vertical stem length: 250 mm
 - Repeat accuracy: 0.001 mm



F6 - COMPARATOR STANDS

PRECISION TOOLS

F “PRECISION TOOLS

COMPARATOR STAND

FEATURES:

- Compact design.
- Vertical smooth adjustment.
- Fine-tuning function, accurately return to zero.
- Suitable for measuring small workpieces in mass volume.
- The Pillar & body has been tempering, ground and chromed.
- 180° rotated for measuring larger workpiece which placed on granite stone.

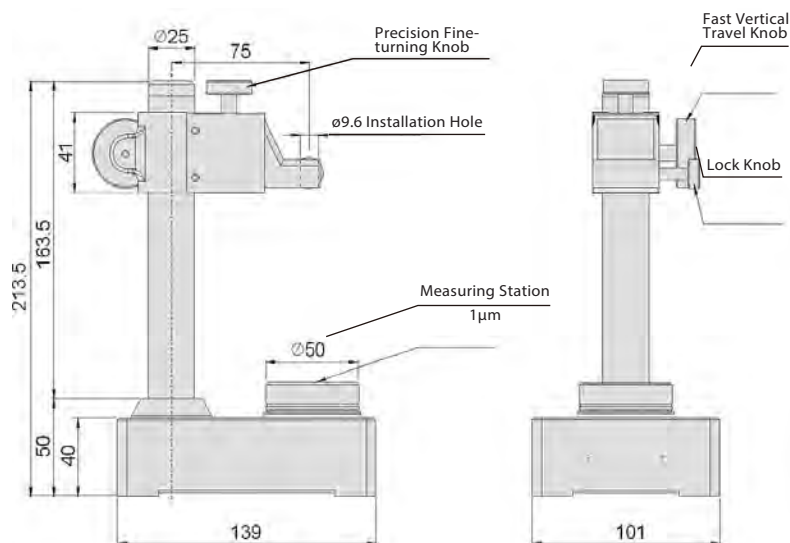
MAIN PARAMETERS:

Vertical Travel	100 mm
Pillar Diameter	Ø25 mm
Measuring station	Ø50 mm
Flatness	0.001 mm

NOTE: Dial gauge is not included.



➤ ITEM NO. 56100500 N.W. 4.3 kgs



EXAMPLE





FULL STAINLESS STEEL & GRANITE COMPARATOR PLATFORM

FEATURES:

- The base uses 440 stainless steel or granite, stainless steel high temperature quenching and sub-zero treatment (HRC 58°~62°) to avoid the shortcomings of rusting, hollows, and/or wear-outs if use high caliber steel, granite, and porcelains.
- Rusting-proof for the base and easy maintenance. Self-grindings for wear-outs are available. As the thickness is straight and parallel within 3μm, the surface of any moldings can be put on the platform of EDMs and milling machines for measurements.
- High square precision as the base, post, and clamping holes are processed precisely.
- All made of stainless steel for easy maintenance.
- Professional technology and precision processing, high quality and high precision.

UNIT:mm

ITEM NO.	BASE DIMENSION	DIMENSION H×D×L	POLE HEIGHT	MATERIAL
56100383	30×120×150	290×120×150	260	full stainless steel
56100384	36×150×200	356×150×200	320	full stainless steel
56100385	55×155×207	320×155×207	260	stainless steel + granite surface stand



F6 - COMPARATOR STANDS

PRECISION TOOLS

