

TOOLS FOR GRINDING MACHINES/ WIRE EDM



C1 - MAG. CHUCKS (C01-C10)



C2 - PUNCH FORMERS & GRINDERS (C11-C52)



C3 - DRESSERS, FLANGES (C53-C67)



C4 - VISES (C68-C112)



C5 - PERMANENT / ELE. MAGNETIC CHUCKS (C113-C122)



C6 - DEMAGNETIZERS (C123-C128)



C7 - MAG. DE-BURRING & POLISHING MACHINES (C129-C134)



C8 - FILTERS (C135-C143)

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

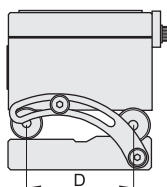
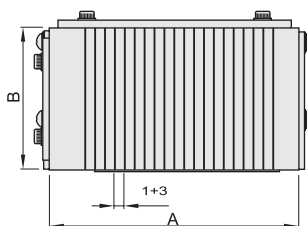


SINE PLATE WITH MAGNETIC CHUCKS



FEATURES:

- Permanent magnetic chuck. Removable handle for positive on/off control, 2 end rails included.
- Angle adjustments form 0° - 60° with 0.005 mm(0.0002") tolerance in squareness, parallelism and rolls center distance.



UNIT: mm/inch

ITEM NO.	A	B	D	N.W.
53100101	175 / 7	100 / 4	75 / 3	10.2 kgs
53100102	150 / 6	150 / 6	100 / 5	15 kgs
53100660	250 / 10	125 / 5	100 / 4	19 kgs
53100103	300 / 12	150 / 6	100 / 5	28 kgs

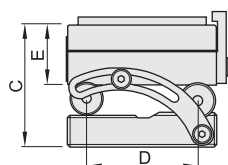
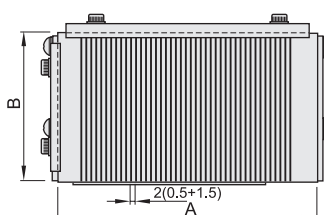


SINE PLATE WITH FINE POLE MAGNETIC CHUCKS



FEATURES:

- Fine pole permanent magnetic chuck. Removable handle for positive on/off control, 2 end rails included.
- Angle adjustments form 0° - 60° with 0.005 mm(0.0002") tolerance in squareness, parallelism and rolls center distance.



UNIT: mm/inch

ITEM NO.	A	B	C	E	D	N.W.
53100104	175 / 7	100 / 4	87 / 3.4	47 / 1.85	75 / 3	10.2 kgs
53100105	150 / 6	150 / 6	87 / 3.4	47 / 1.85	100 / 5	15 kgs
53100661	250 / 10	125 / 5	87 / 3.4	47 / 1.85	100 / 4	19 kgs
53100106	300 / 12	150 / 6	87 / 3.4	47 / 1.85	100 / 5	28 kgs

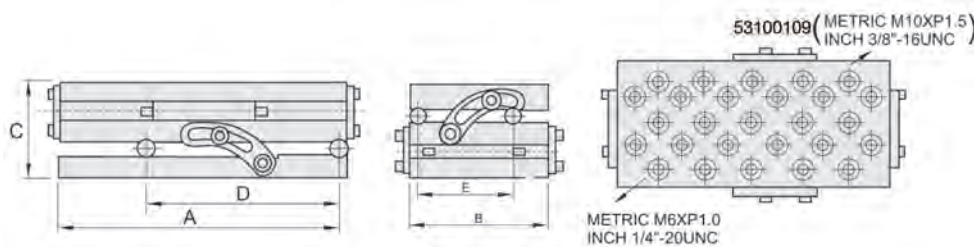


COMPOUND SINE PLATES



FEATURES:

- Two end rails and tow locking strap included.
- Tapped holes on top.
- Squareness and parallelism within 0.005 mm (0.0002")
- Center distance of tools within 0.005 mm (0.0002")
53100109 within 0.008 mm (0.0003")



UNIT: mm/inch

ITEM NO.	A	B	C	D	E	N.W.
53100107	175 / 7	100 / 4	100 / 4	100 / 5	75 / 3	9.5 kgs
53100108	150 / 6	150 / 6	100 / 4	100 / 5	100 / 5	12.5 kgs
53100109	300 / 12	150 / 6	100 / 4	200 / 10	100 / 5	23.5 kgs

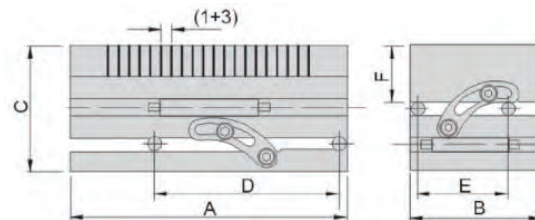


COMPOUND SINE MAGNETIC CHUCKS



FEATURES:

- Base is hardened with precision ground and high rigidity
- Parallelism within 0.003 mm / 100 mm.
- Center distance of rolls within 0.005 mm.
- Adjustable angle 0-60° by applying precision gauge block.



UNIT: mm/inch

ITEM NO.	A	B	C	D	E	F	N.W.
53100800	175 / 7	100 / 4	123.7 / 4.9	100 / 4	75 / 3	47 / 1.85	13.5 kgs
53100801	150 / 6	150 / 6	123.7 / 4.9	150 / 6	100 / 5	47 / 1.85	16.8 kgs
53100802	250 / 10	125 / 5	123.7 / 4.9	125 / 5	100 / 4	47 / 1.85	23.4 kgs
53100803	300 / 10	150 / 6	123.7 / 4.9	150 / 6	100 / 5	47 / 1.85	32.5 kgs



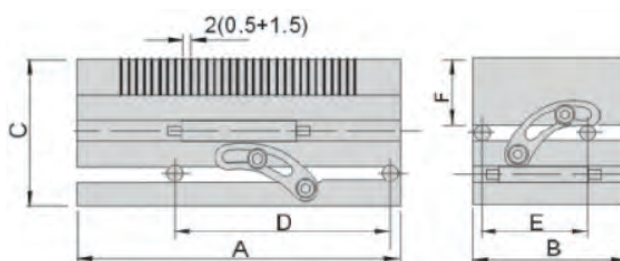
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



COMPOUND SINE PLATE WITH FINE MAGNETIC CHUCKS

FEATURES:

- Base is hardened with precision ground and high rigidity
- Parallelism within 0.003 mm / 100 mm.
- Center distance of rolls within 0.005 mm.
- Adjustable angle 0-60° by applying precision gauge block.



UNIT: mm/inch

ITEM NO.	A	B	C	D	E	F	N.W.
53100804	175 / 7	100 / 4	123.7 / 4.9	100 / 4	75 / 3	47 / 1.85	13.5 kgs
53100805	150 / 6	150 / 6	123.7 / 4.9	100 / 5	100 / 5	47 / 1.85	16.8 kgs
53100806	250 / 10	125 / 5	123.7 / 4.9	200 / 8	100 / 4	47 / 1.85	23.4 kgs
53100807	300 / 10	150 / 6	123.7 / 4.9	200 / 10	100 / 5	47 / 1.85	33.1 kgs



FINE ADJUSTMENT SINE PLATE WITH FINE POIE MAGNETIC CHUCKS

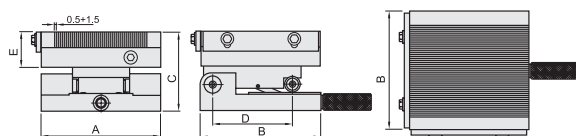


ITEM NO. 53100110

FEATURES:

- 0°-60° angle adjustment.
- Angles adjusted by handle bar with micro-adjustment.
- 150 x 150 mm fine pole magnetic chuck.
- Squareness & parallelism within 0.005 mm.
- Center distance of rolls within 0.005 mm.

UNIT: mm



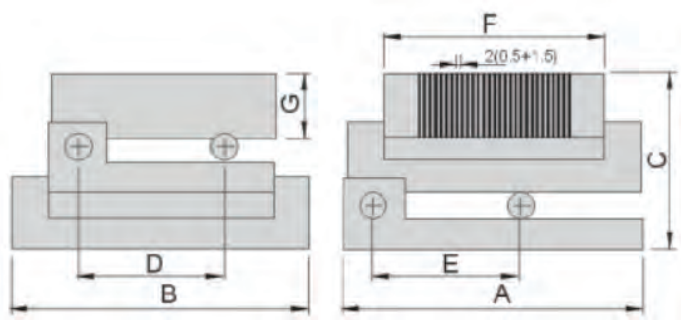
ITEM NO.	A	B	C	D	E	N.W.
53100662	130	75	83	50	37	5.5 kgs
53100663	175	100	92	75	41	11.5 kgs
53100110	150	150	92	100	41	15 kgs



COMPOUND SINE PLATE WITH FINE MAGNETIC CHUCKS

FEATURES:

- Base is hardened with precision ground and high rigidity.
- Parallelism within 0.003 mm /100 mm
- Center distance of rolls within 0.005 mm.
- Adjustable angle 0-60° by applying precision gauge block.



UNIT: mm/inch

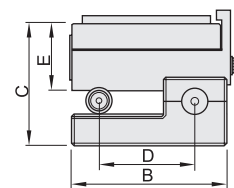
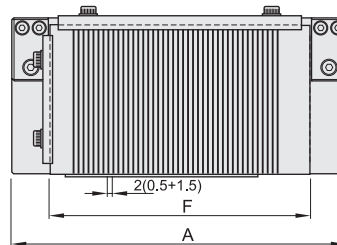
ITEM NO.	A	B	C	D	E	F	N.W.
53100808	177 / 7	122 / 4.8	107.7 / 4.2	50 / 2	100 / 3	40 / 1.58	10 kgs
53100809	225 / 9	150 / 6	121.7 / 4.8	75 / 3	150 / 5	47 / 1.85	16 kgs
53100810	200 / 8	200 / 8	121.7 / 4.8	100 / 5	150 / 5	47 / 1.85	20.9 kgs
53100811	300 / 12	175 / 7	121 / 4.8	100 / 4	200 / 10	47 / 1.85	28 kgs



SINE PLATE WITH FINE POLE MAGNETIC CHUCKS

FEATURES:

- Fine pole permanent magnetic chuck.
Removable handle for positive on/off control,
2 end rails included. Angle adjustments from 0°-60°
with 0.005 mm (0.0002") tolerance in squareness,
parallelism and rolls center distance.
- Swivel joint and base plate is of one piece design.



UNIT: mm/inch

ITEM NO.	A	B	C	D	E	F	ANGLE	N.W.
53100664	160 / 6.3	75 / 3	74 / 3	50 / 2	40 / 1.58			6.5 kgs
53100111	225 / 9	102 / 4	87 / 3.4	75 / 3	47 / 1.85			11.5 kgs
53100112	200 / 8	152 / 6	87 / 3.4	100 / 5	47 / 1.85	2	0°-60°	14.8 kgs
53100665	300 / 12	127 / 5	87 / 3.4	100 / 4	47 / 1.85	(0.5+1.5)		20 kgs
53100666	350 / 14	102 / 4	87 / 3.4	100 / 3	47 / 1.85			19 kgs
53100113	350 / 14	152 / 6	87 / 3.4	100 / 5	47 / 1.85			28 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

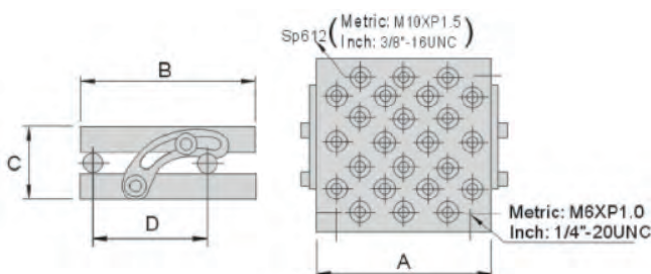


SINE PLATES



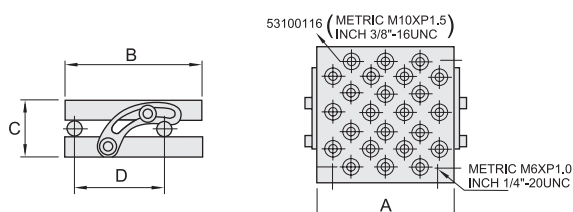
FEATURES:

- Tapped holes in top plate 3" x 6", 5" x 6" for fixing workpieces.
- Squareness within 0.0002"
- Parallelism within 0.0002" / 4".
- Center distance of rolls within 0.0002".
- Adjustable angle 0-60°



UNIT: inch

ITEM NO.	A	B	C	D	N.W.
53100812	3.228	6	2.205	5	4.2 kgs
53100813	5	6	2.362	5	7 kgs



UNIT: mm/inch

- Tapped holes on top.
- Two end rails and one locking strap included.
- 0°-60° capacity.
- Squareness and parallelism within 0.005 mm (0.0002").
- Center distance of rolls within 0.005 mm (0.0002").
- 150 x 300 mm within 0.008 mm

ITEM NO.	A	B	C	D	N.W.
53100114	175 / 7	100 / 4	60 / 2.362	75 / 3	6.5 kgs
53100115	150 / 6	150 / 6	60 / 2.362	100 / 5	8 kgs
53100116	300 / 12	150 / 6	60 / 2.362	100 / 5	16 kgs



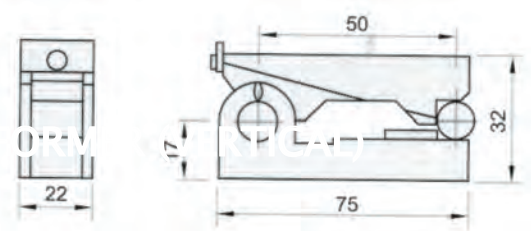
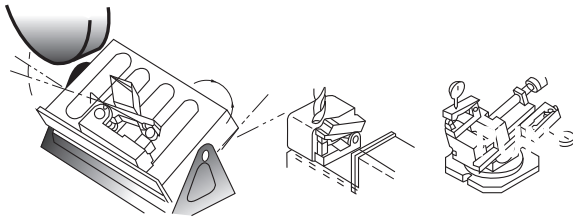
MAGNETIC SINE BAR

FEATURES:

- Parallelism : within 0.002 mm
- Squareness : within 0.005 mm
- Roller distance: 50 mm $\pm$ 0.002 mm
- Hardness: HRC56°~58°
- There is a magnet built-in the bottom of base which can be used on any kind of machine for angle testing.



▲ ITEM NO. 53100153



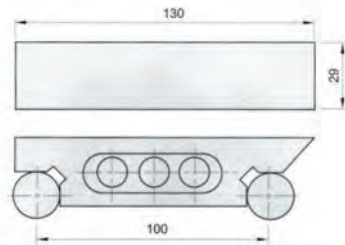
SINE PLATE

FEATURES:

- Parallelism: within 0.002 mm
- Squareness: within 0.005 mm
- Roller distance: 100 mm $\pm$ 0.005 mm
- Hardness: HRC56°~ 58°



▲ ITEM NO. 53100154



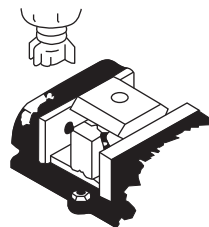
ADJUSTABLE ANGLE PLATES



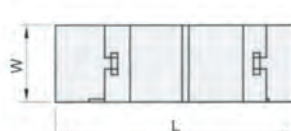
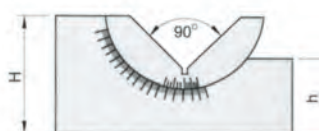
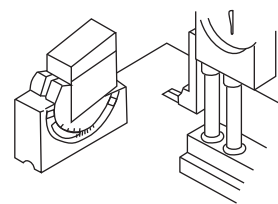
UNIT: mm

ITEM NO.	L	W	H	h	N.W.
53100155	75	25	36	25	0.5 kg
53100156	102	30	49	30	1.0 kgs
53100157	102	46	49	30	1.5 kgs

TO MARK OUT ON A WORKPIECE



USING ON THE MILLING MACHINE



C1 - MAG. CHUCKS

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

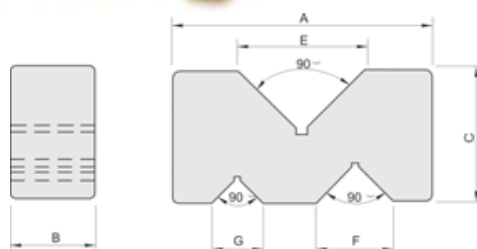


VEE BLOCKS



FEATURES:

- Parallelism: Within 0.005 mm
- Squareness: Within 0.005 mm
- Hardness: HRC55°



UNIT: mm

ITEM NO.	A	B	C	D	E	F	N.W.
53100158	75	24	35	37	24	16	0.8 kg
53100159	100	33	52	50	30	20	2.5 kgs
53100160	125	44	69	63	37	26	5 kgs
53100161	150	50	80	75	45	30	7.8 kgs

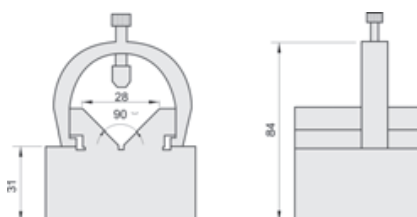


V BLOCK PAIR W/ CLAMPS



FEATURES:

- Parallelism: Within 0.005 mm
- Squareness: Within 0.005 mm
- Hardness: HRC56°~58°
- Weight: 3.1 kgs



ITEM NO. 53100162

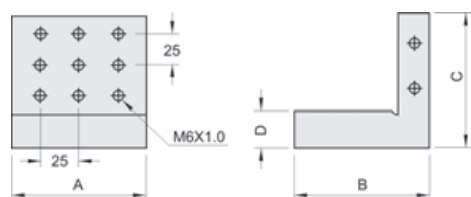


STEEL ANGLE PLATES



- Tool steel YK30
- Parallelism Within 0.003 mm /100 mm
- Squareness Within 0.005 mm /100 mm
- Heat treatment up to HRC56°~ 58°

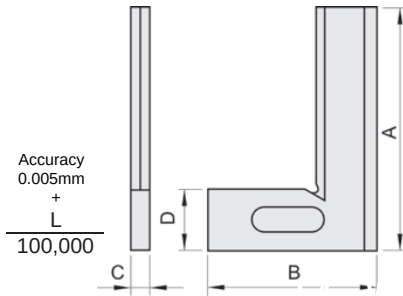
UNIT: mm



ITEM NO.	A	B	C	D	N.W.
53100163	73	73	100	25	2.5 kgs
53100164	100	100	100	25	3.7 kgs
53100165	100	100	150	25	4.5 kgs



HARDENED STEEL SQUARES



FEATURES:

- Squares have accurate right angles both inside and outside. Made from a single piece of fully seasoned tool steel. Beams and blades are ground and accurately lapped for straightness and parallelism.
- Accuracy class H blades are beveled on both edges of each side. Beam is grooved at inner corner for clearance of burr and dirt. All squares are fully hardened (Rockwell 55°) packed in individual cartons.

UNIT: mm

ITEM NO.	A	B	C	D	N.W.
53100166	100	70	5	22	0.2 kg
53100167	150	100	7	30	0.4 kg
53100168	200	130	8	35	0.6 kg
53100169	250	165	10	38	1.3 kgs
53100170	300	200	10	40	1.6 kgs



PRECISION HOLDING FIXTURE – FOR MEASURING PURPOSE



APPLICATION:

- To be used on 3D coordinate measuring machine.
- Clamping tiny workpieces for using on projector, tool microscope and magnifying glass.
- Clamping tiny workpieces for using on various electric measuring machines.

UNIT: mm

ITEM NO.	T	L	H	CAPACITY	N.W.
53100199	45	65	23	12	0.46 kg



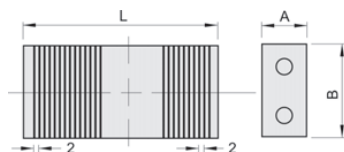
MAGNETIC TRANSFER PARALLELS & V-BLOCKS

FEATURES:

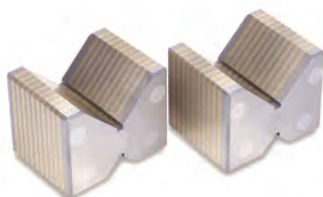
- Non-magnetic parallels or V-blocks are for transferring magnetic power to hold workpiece.
- V-block are useful as auxiliary tool by applying it to magnetic chuck for attracting round bar, flank of plate and other workpiece with hard to hold shapes, which cannot be held by a chuck alone.



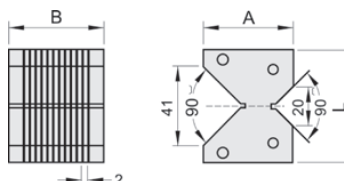
▲ ITEM NO. 53100171



▲ ITEM NO. 53100814



▲ ITEM NO. 53100172



UNIT: mm

ITEM NO.	A x B x L x PCS	N.W.
53100171	25 x 50 x 100-2 PCS	2.2 kgs
53100172	46 x 49 x 58-2 PCS	2 kgs
53100814	98 x 58 x 46-1 PC	3.4 kgs

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MAGNETIC INDUCTION BLOCKS



▲ ITEM NO. 53100815



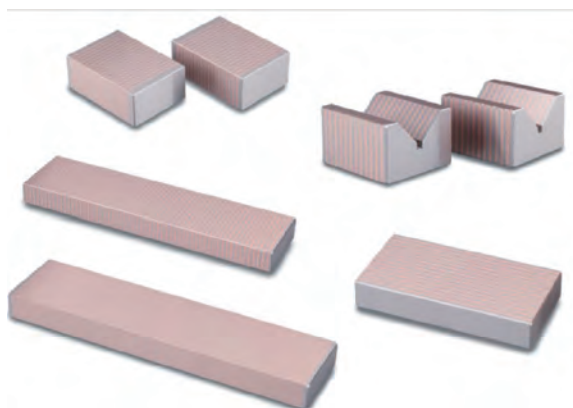
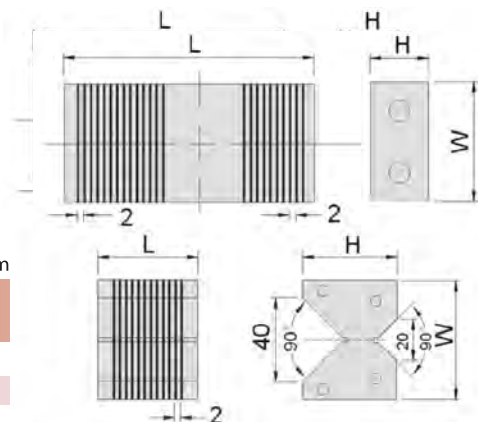
▲ ITEM NO. 53100817



▲ ITEM NO. 53100816

UNIT: mm

ITEM NO.	L x W x H x PCS	N.W.
53100815	100 x 50 x 25-2PCS	1.2 kgs
53100816	49 x 58 x 46-2PCS	1.2 kgs
53100817	98 x 58 x 46-1PC	1.2 kgs

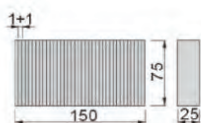


FEATURES:

- Made of iron and copper with welding fixed, can cut in any shapes and distortion free.
- It will be magnetized after inducted on any magnetic chuck applying for as plate or 45° fixture and used as auxiliary tool for holding round, thin or shapes that are difficult to hold.
- There are many types of induction blocks for selection to fulfill your processing needs.
- 20% magnetic force reduced when thickness over 25 mm.

UNIT: mm

ITEM NO.	L	W	H	POLE PITCH	QTY	N.W.
53100818	150	75	25	2(1+1)	1 PC	2.2 kgs
53100819	300	75	25	2(1+1)	1 PC	4.4 kgs
53100820	75	45	22	5(2+3)	2 PCS	1.2 kgs
53100821	65	60	40	5(2+3)	2 PCS	2.5 kgs
53100822	100	50	25	5(2+3)	2 PCS	2.0 kgs
53100823	150	75	25	5(2+3)	1 PC	2.2 kgs
53100824	300	75	25	5(2+3)	1 PC	4.4 kgs
53100825	100	50	25	5(2+3)	2 PCS	2.0 kgs
53100826	150	75	25	5(2+3)	1 PC	2.2 kgs
53100827	300	75	25	5(2+3)	1 PC	4.4 kgs



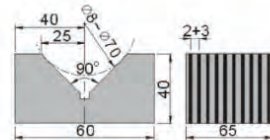
▲ ITEM NO. 53100818



▲ ITEM NO. 53100819



▲ ITEM NO. 53100820



▲ ITEM NO. 53100821



▲ ITEM NO. 53100822



▲ ITEM NO. 53100823



▲ ITEM NO. 53100825



▲ ITEM NO. 53100826



▲ ITEM NO. 53100824



▲ ITEM NO. 53100827



PERMANENT MAGNETIC CHUCKS



ITEM NO. 53100828

ITEM NO. 53100829



ITEM NO. 53100830

(Wire cutting machine applicable)

FEATURES:

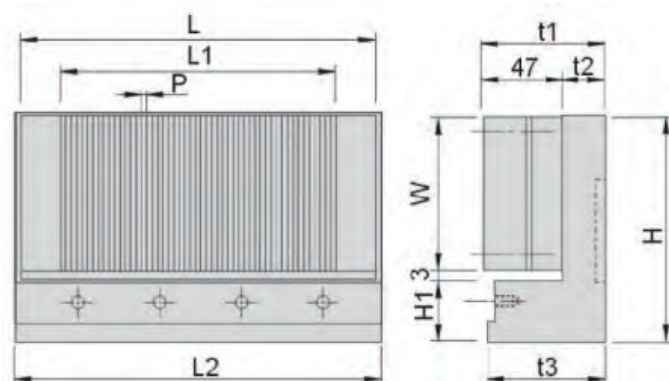
- Suitable for applying in grinding, milling, EDM, wire cutting and measuring machines.
- Attractions are available on several faces and capable of holding small and thin workpieces. Attraction can be adjusted and prevent distortion.
- Suitable for processing 90° fixture.
- Applying two magnetic chucks for exchange plate processing, easier and efficient.
- Easy to disassemble workpieces when OFF, no magnetic force remained.

UNIT: mm

ITEM NO.	L	W	H	N.W.
53100828	135	50	60	3.5 kgs
53100829	200	70	70	7.5 kgs
53100830	190	46	54	3.7 kgs



PERMANENT MAGNETIC CHUCKS (VERTICAL TYPE)



FEATURES:

- Suitable for applying workpiece inspection of vertical auxiliary by using its magnetic force to achieve stability
- Squareness and parallelism are within $\pm 0.002\text{mm}$.
- Base with SKD11 material and HRC56° sub-zero treatment assures its accuracy.

UNIT: mm

ITEM NO.	W	L	L1	P	L2	t3	t1	t2	H	H1	N.W.
53100831	75	175	130	1+1	180	65	67	20	111	30	9.7 kgs
53100832	100	175	130	1+1	180	65	67	20	136	30	13 kgs
53100833	125	250	205	1+1	255	65	67	20	161	30	23 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PRECISION PUNCH FORMER

ITEM NO. 53100834



N.W. 10 kgs

FEATURES:

- 53100834 precision punch former has stronger compact structure as well as longer durability.
- This model is suitable for applying on surface grinding machine and EDM machines. It is capable of forming miscellaneous shapes of punches.
- 53100834 has trough hole design for longer punch & easier for setting center.
- V-block clamping design can accurately stabilize the workpieces and with fine-tuning function makes easier for setting center.
- Adopting high precision double bearing to achieve higher stability and accuracy, with multiple times longer lifetime, and precisely stabilize polygonal punches.
- Stopper design in position slot which makes it easier to precisely stabilize polygonal punches.
- Made of stainless steel, rustless and easily maintained.

Note : V-block is made of SKD11 in order to enhance hardness.



- V-block is adjustable for calibration even when small workpiece is clamped.
- Two clamp plates on both sides of V-block help the consistent movement.
- Release the screw when making adjustment and lock with slight force.

Precisely ground screw rod for fine-tuning of V-block vertical movement.

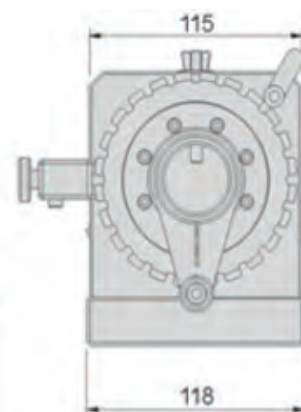
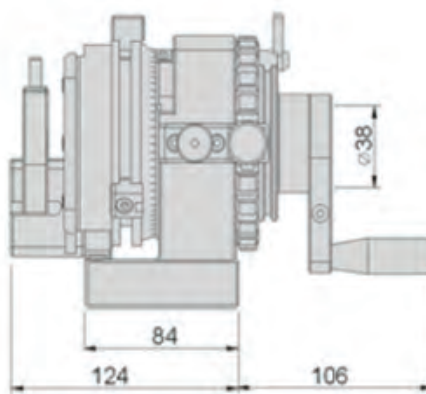
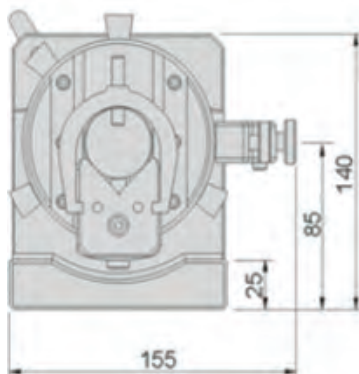


Punch Forming Applications



Main parameters:

Center height	85±0.5 mm
Clamping dia. range of V-block	ø3~38 mm
Travel of V-block	30 mm
Indexer toothq'ty & accuracy	24, 15° ±5"
Through hole diameters	ø36 mm
Clamping accuracy (50 mm)	0.005 mm





PRECISION PUNCH FORMER

ITEM NO. 53100835



N.W. 12 kgs



FEATURES:

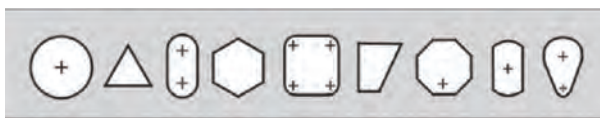
- 53100835 precision punch former has stronger compact structure as well as longer durability. This model is suitable for applying on surface grinding machine and EDM machines. It is capable of forming miscellaneous shapes of punches.
- V-block clamping design can accurately stabilize the workpieces, and its fine-tuning function makes it easier for setting center.
- Adopting high precision double bearing to achieve higher stability and accuracy, with much longer lifetime than the conventional ones.
- Stopper design in position slot which makes it easier to precisely stabilize polygonal punches.
- Made of stainless steel, rustless and easily maintained.

Note : V-block is made of SKD11 in order to enhance hardness.



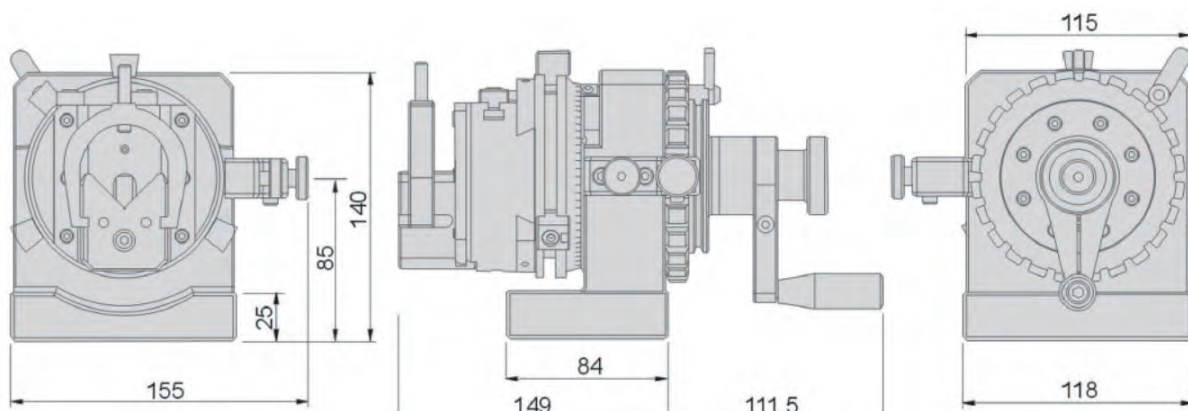
- V-block is adjustable for calibration even when small workpiece is clamped.
- Two clamp plates on both sides of V-block help consistent movement.
- Release the screw when making adjustment and lock with slight force.

Punch Forming Applications



Main parameters:

Center height	85±0.5 mm
Clamping dia. range of V-block	ø3~38 mm
Travel of V-block	38 mm
Slide plate horizontal movement	±18 mm
Indexer tooth q'ty & accuracy	24, 15° ±5"
Clamping accuracy (50mm)	0.005 mm



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PRECISION MULTI-FUNCTION PUNCH FORMER – BODY ONLY

ITEM NO. 53100836

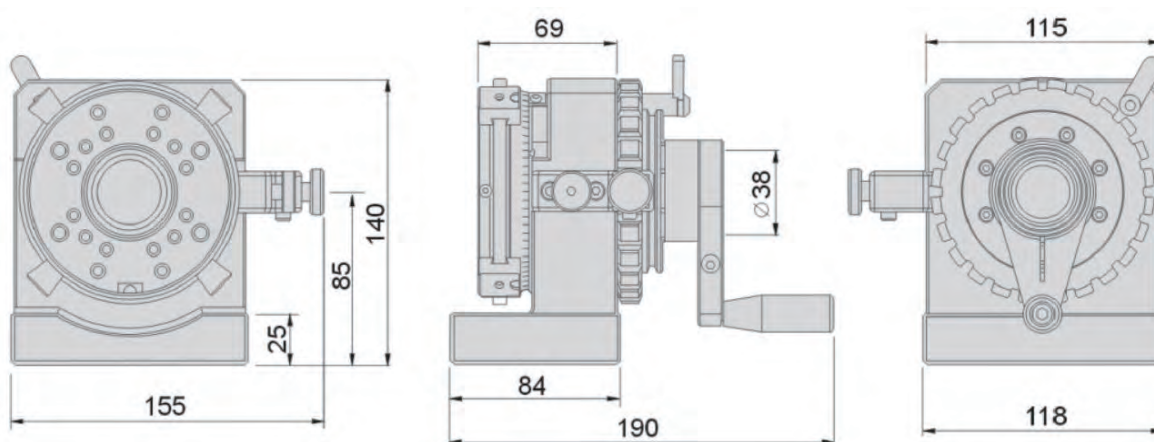


N.W. 7.8 kgs

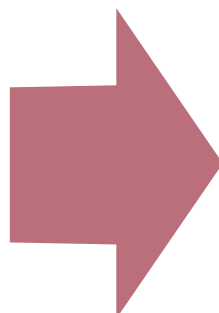


FEATURES:

- Brand new type Punch former, with higher rigidity and durability.
- Stainless steel body made it waterproof and easy for maintainance.
- Adopting high precision double bearings to achieve high accuracy & stability as well as longer lifetime.
- Modulisation makes it multi-functional, applying (See next page) SC40, SC04/05 3-jaw chuck, ER collets, 3R and Erowa positioning chuck. Various components can be procured to achieve cost efficiency. (See next page)



ITEM NO.	TYPE	N.W.
53100836		7.8 kgs
53100837	SC40	2.2 kgs
53100838	SC04	1.0 kg
53100839	SC05	7.0 kgs
53100840	SER20	0.48 kg
53100841	SER32	0.51 kg
53100842	SER50	0.55 kg
53100843	3R24	0.6 kg
53100844	3R28	1.0 kg
53100845	EQC50	0.6 kg
53100846	EQC100	2.0 kgs



FEATURES:

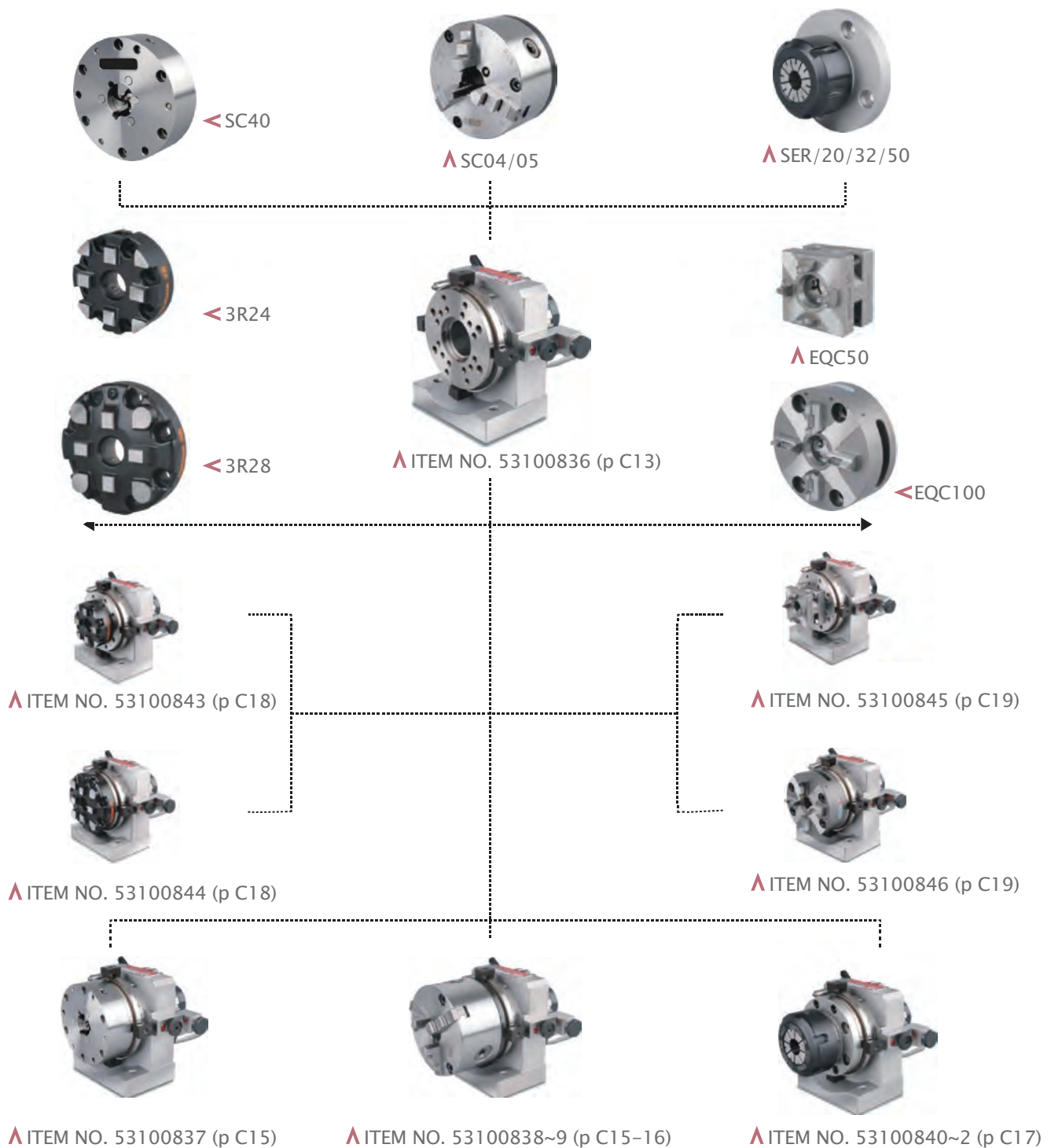
- Modulisation
- High rigidity, accuracy and stability
- Strong clamping force
- Various clamping size
- Flexible, fast and convenient
- Unique design with special surface treatment, longer lifetime

Interchangeable components
(see next page for more information)



PRECISION MULTI-FUNCTION PUNCH FORMER – BODY ONLY

Interchangeable components



C2 - PUNCH FORMERS & GRINDERS

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

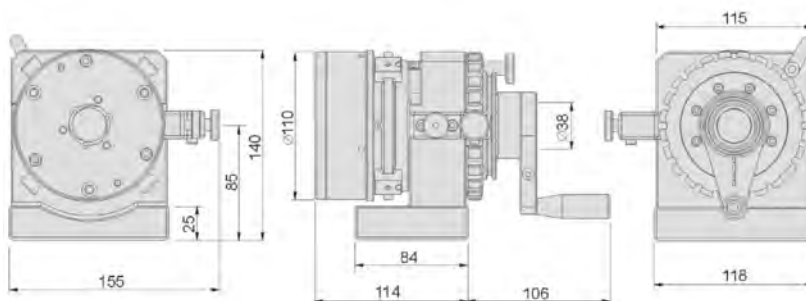


SUPER PRECISION 3-JAW PUNCH FORMER

ITEM NO. 53100837



N.W. 10 kgs



Note : Due to SC40 3-jaw chuck has high precision structure design, apply torque wrench at all time to avoid any possible damage.

FEATURES:

- 53100837 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- Special designed SC40 3-jaw chuck provide rapid clamping, and it is suitable for mass production. Workpiece with round shape can be precisely & rapidly clamped.
- Torque wrench is included for user-friendly purpose.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height	85±0.5 mm
Indexer tooth q'ty & accuracy	24, 15° ±5"
Through hole diameters	ø25 mm
Hole dia. of 3-jaw chuck	ø25 mm
Min. clamping range	ø1 mm
Max. clamping range.....	ø25 mm
Rotational accuracy	0.003 mm
Repeat accuracy	within 0.003 mm

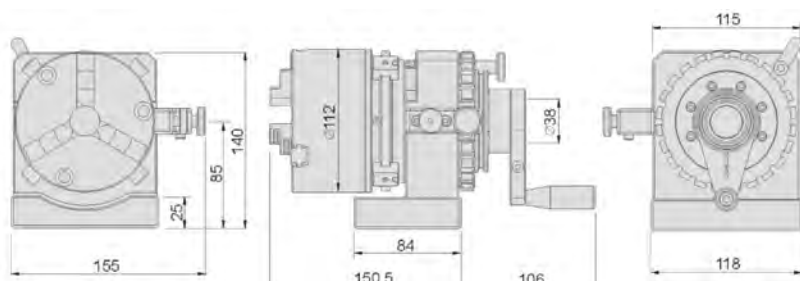


PRECISION 3-JAW PUNCH FORMER

ITEM NO. 53100838



N.W. 8.8 kgs



Note : SC04 is made of FCD45 material.

FEATURES:

- 53100838 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- SC04 3-jaw chuck provide rapid clamping, and it is suitable for mass production. Workpiece with round shape can be precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special function in horizontal and roundness adjustment is designed for user to adjust himself.
- Jaw attachment can clamp workpiece with larger diameters.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height	85±0.5 mm
Indexer tooth q'ty & accuracy	24, 15° ±5"
Through hole diameters	ø32 mm
Hole dia. of 3-jaw chuck	ø32 mm
Min. clamping range	O.D. ø3 mm, I.D. ø32 mm
Max. clamping range.....	O.D. ø3 mm, I.D. ø84 mm
Rotational accuracy	0.003 mm
Repeat accuracy	0.015 mm



PRECISION 3-JAW PUNCH FORMER



ITEM NO. 53100839



N.W. 14.8 kgs

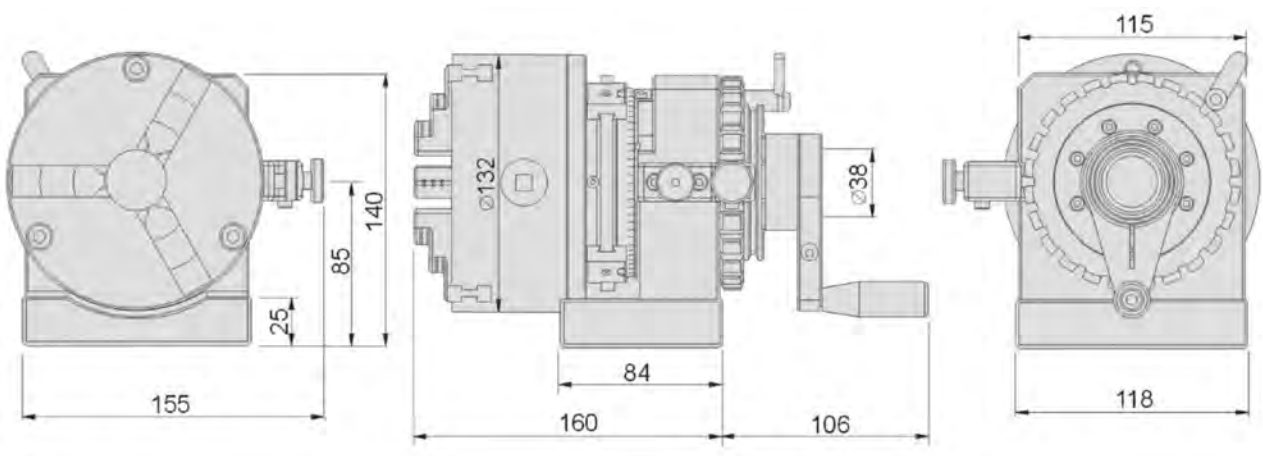
Note: SC04 is made of FCD45 material.

FEATURES:

- 53100839 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- SC05 3-jaw chuck provide rapid clamping, and it is suitable for mass production. Workpiece with round shape can precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special function in horizontal and roundness adjustment is designed for user to adjust himself.
- Jaw attachment can clamp workpiece with larger diameters.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height	85±0.5 mm
Indexer tooth q'ty & accuracy	24, 15° ±5"
Through hole-diameters	ø32 mm
Hole dia. of 3-jaw chuck	ø32 mm
Min. clamping range	O.D. ø3 mm, I.D. ø35 mm
Max. clamping range.....	O.D. ø110 mm, I.D. ø110 mm
Rotational accuracy	0.003 mm
Repeat accuracy	0.015 mm



ITEM NO. 53100840~2



L	D	ACCURACY
6	1.0-1.6	0.01
10	1.6-3.0	0.01
16	3.0-7.0	0.01
25	7.0-10.0	0.01
40	10.0-18.0	0.01
50	18.0-24.0	0.01
60	24.0-34.0	0.01

Main parameters:

[illegible]C17 BENIGN ENTERPRISE CO., LTD.



PRECISION 3R PUNCH FORMERS

✓ ITEM NO. 53100843



✓ ITEM NO. 53100844

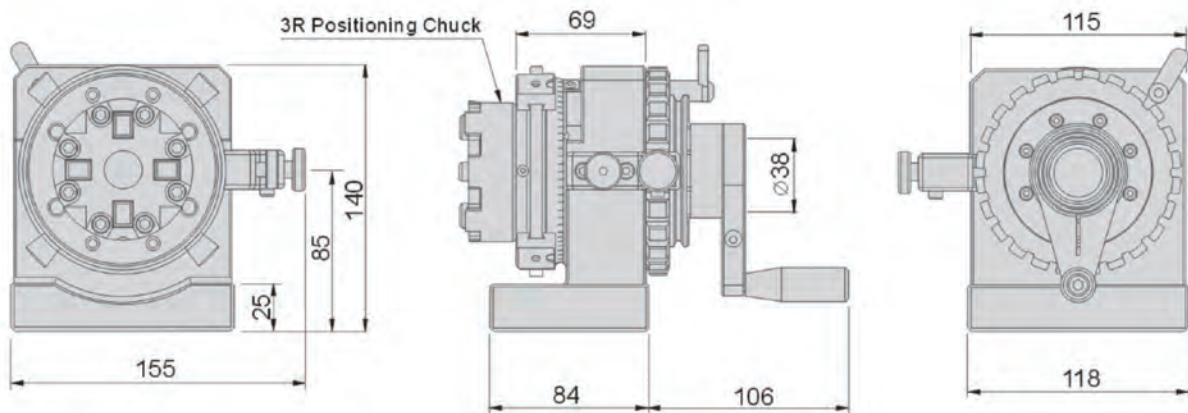


FEATURES:

- 53100843~4 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- With interchangeable design, components can be chosen according to users' demand.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model also works with EROWA positioning chuck to achieve modulisation.

Main parameters:

Center height 85±0.5 mm
 Indexer tooth q'ty & accuracy 24, 15°± 5"
 Rotational accuracy ø36 mm
 Repeat accuracy 0.003 mm



ITEM NO.	TYPE	POSITIONING CHUCK SPEC	N.W.
53100843	3R24	3R24	8.4 kgs
53100844	3R28	3R28	8.8 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PRECISION EQC PUNCH FORMERS



▲ ITEM NO. 53100845



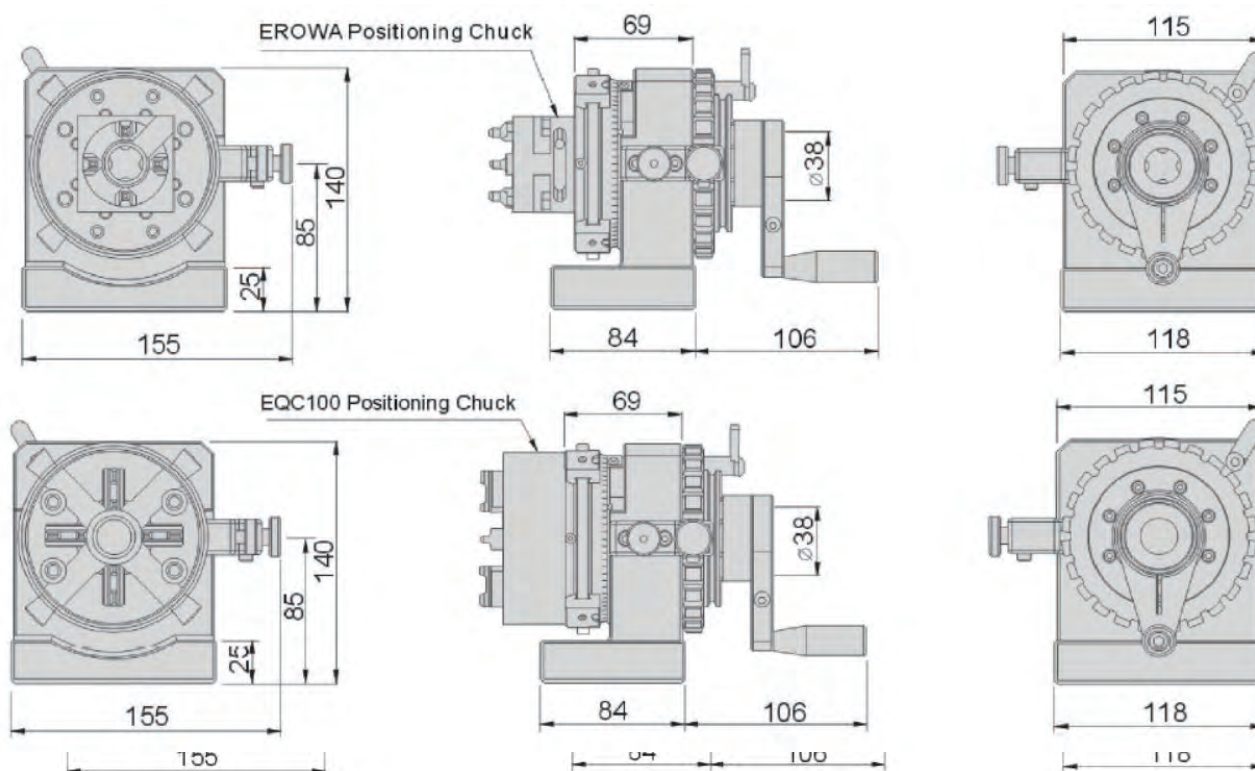
▲ ITEM NO. 53100846

FEATURES:

- 53100845~6 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- With interchangeable design, components can be chosen according to users' demand.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model also works with system 3R positioning chuck to achieve modulisation.

Main parameters:

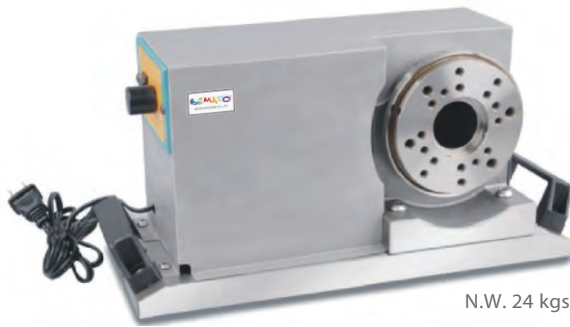
Center height 85±0.5 mm
 Indexer tooth q'ty & accuracy 24, 15° ±5"
 Through hole diameters 0.003 mm
 Rotational accuracy 0.003 mm



ITEM NO.	TYPE	POSITIONING CHUCK SPEC	N.W.
53100845	EQC50	EQC50	8.4 kgs
53100846	EQC100	EQC100	9.8 kgs



PRECISION MOTOR MULTI-FUNCTION PUNCH FORMER -BODY ONLY

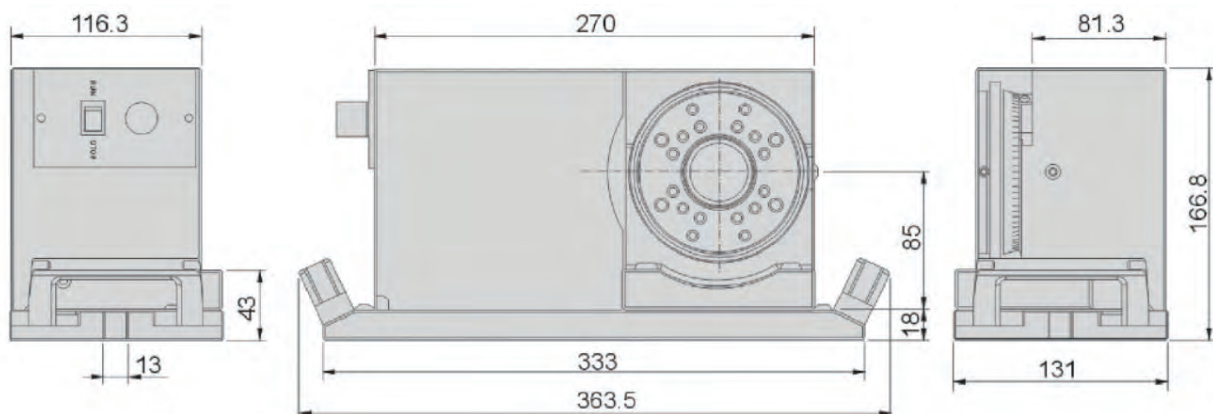


N.W. 24 kgs

▲ ITEM NO. 53100847

FEATURES:

- 53100847 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- Motorised function prevents human fatigue when processing.
- With interchangeable design, components can be chosen according to users' demand such as SC40, SC04, SC05 3-jaw chuck, ER20, ER32, ER50 collets.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Seal type motor and adjustable voltage & rotary speed as below
Motor: 110V/60Hz 50~550 RPM
Motor: 220V/50Hz 50~550 RPM
- Depending on any demands in processing, optional accessories in SC40 / SC04 / SC05 / SER20 / SER32 / SER50 page C20 are available to achieve cost effective.



ITEM NO.	TYPE	VOLTAGE	N.W.
53100847		110V 220V	24 kgs
53100848	SC40	110V 220V	31 kgs
53100849	SC04	110V 220V	25 kgs
53100850	SC05	110V 220V	31.5 kgs
53100851	SER20	110V 220V	24.9 kgs
53100852	SER32	110V 220V	24.8 kgs
53100853	SER50	110V 220V	25.7 kgs

FEATURES:

- Modulisation
- High rigidity, accuracy and stability
- Strong clamping force
- Various clamping size
- Flexible, fast and convenient
- Unique design with special surface treatment, longer lifetime

Interchangeable components
(see next page for more information)



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PRECISION MOTOR MULTI-FUNCTION PUNCH FORMER-BODY ONLY

Interchangeable components



▲ SC40



▲ SC04/05



▲ SER/20/32/50



▲ ITEM NO. 53100847 (P C20)



▲ ITEM NO. 53100848 (P C22)



▲ ITEM NO. 53100849~50 (P C23~24)



▲ ITEM NO. 53100851~3 (P C25)



SUPER PRECISION MOTOR 3-JAW PUNCH FORMER

ITEM NO. 53100848



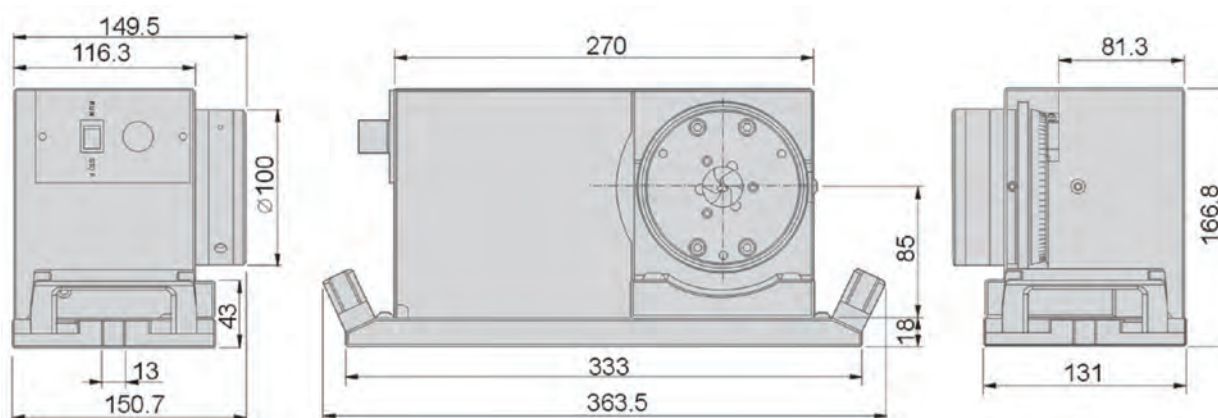
Note: Due to SC40 3-jaw chuck has high precision structure design, apply torque wrench at all time to avoid any possible damage.

FEATURES:

- 53100848 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- Special designed SC40 precision 3-jaw chuck provide rapid clamping, and it is suitable for mass production. Workpiece with round shape can be precisely & rapidly clamped.
- Motorised function prevents human fatigue when processing.
- Torque wrench is included for user-friendly purpose.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height	85±0.5 mm
Through hole diameters	ø36 mm
Hole dia. of 3-jaw chuck	ø25 mm
Motor: 110V/60Hz.....	50~550 RPM
Motor: 220V/50Hz.....	50~550 RPM
Min. clamping range	ø1 mm
Max. clamping range	ø25 mm
Rotational accuracy	0.003 mm
Repeat accuracy	0.003 mm



TYPE	VOLTAGE	N.W.
SC04	110V	31 kgs
	220V	31 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PRECISION MOTOR 3-JAW PUNCH FORMER



ITEM NO. 53100849



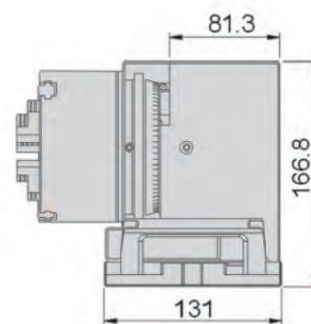
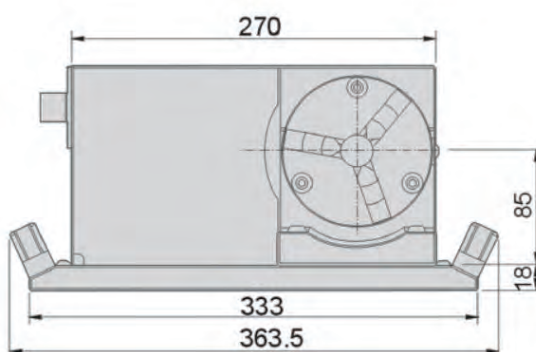
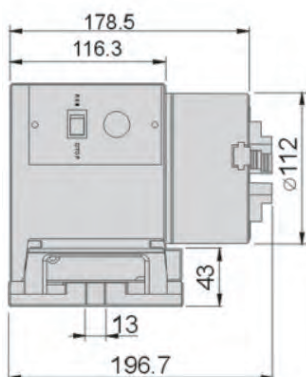
FEATURES:

- 53100849 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- Special designed SC04 precision 3-jaw chuck provides rapid clamping, and it is suitable for mass production. Workpiece with round shape can be precisely & rapidly clamped.
- Motorised function prevents human fatigue when processing.
- Further attachment jaw provides capability of clamping larger workpiece.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height 85±0.5 mm
Through hole diameters $\varnothing 36$ mm
Hole dia. of 3-jaw chuck $\varnothing 32$ mm
Min. clamping range O.D. $\varnothing 3$ mm, I.D. $\varnothing 32$ mm
Max. clamping range O.D. $\varnothing 3$ mm, I.D. $\varnothing 4$ mm
Motor: 110V/60Hz..... 50~550 RPM
Motor: 220V/50Hz..... 50~550 RPM
Rotational accuracy..... 0.003 mm
Repeat accuracy..... 0.015 mm

Note: Due to SC04 3-jaw chuck has high precision structure design, apply torque wrench at all time to avoid any possible damage.



TYPE	VOLTAGE	N.W.
SC04	110V	25 kgs
	220V	25 kgs



PRECISION MOTOR 3-JAW PUNCH FORMER

ITEM NO. 53100850



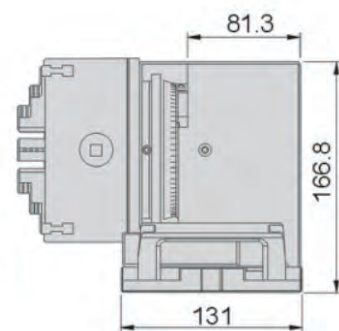
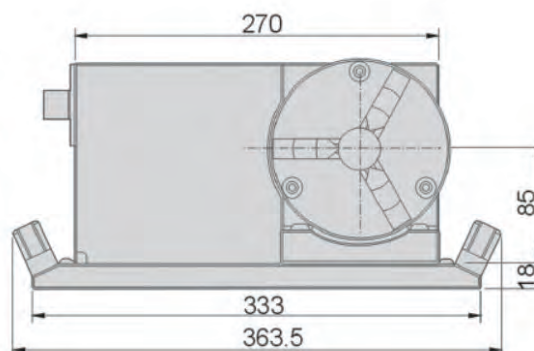
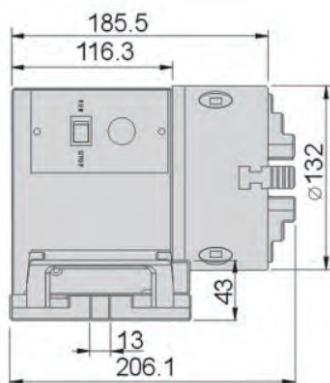
FEATURES:

- 53100850 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- Special designed SC05 precision 3-jaw chuck provides rapid clamping, and it is suitable for mass production. Workpiece with round shape can be precisely & rapidly clamped.
- Motorised function prevent human fatigue when processing.
- Further attachment Jaw provides capability of clamping larger workpiece.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height 85±0.5 mm
 Through hole diameters $\varnothing$ 36 mm
 Hole dia. of 3-jaw chuck $\varnothing$ 32 mm
 Min. clamping range O.D. $\varnothing$ 3mm, I.D. $\varnothing$ 32 mm
 Max. clamping range O.D. $\varnothing$ 3mm, I.D. $\varnothing$ 4 mm
 Motor: 110V/60Hz..... 50~550 RPM
 Motor: 220V/50Hz..... 50~550 RPM
 Rotational accuracy..... 0.003 mm
 Repeat accuracy..... 0.015 mm

Note: Due to SC05 3-jaw chuck has high precision structure design, apply torque wrench at all time to avoid any possible damage .



TYPE	VOLTAGE	N.W.
SC05	110V	31.5 kgs
	220V	31.5 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

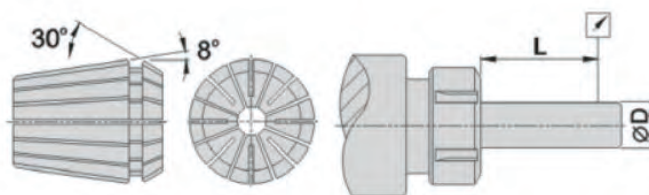


PRECISION MOTOR ER COLLET PUNCH FORMERS

ITEM NO. 53100851~3



Note: ER & ER Nut are not made of stainless steel.



UNIT: mm

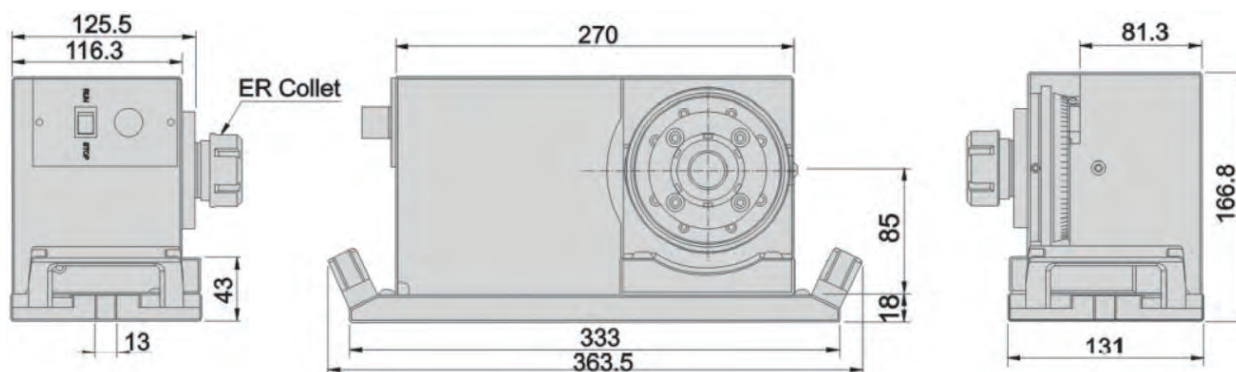
L	D	ACCURACY
6	1.0-1.6	0.01
10	1.6-3.0	0.01
16	3.0-7.0	0.01
25	7.0-10.0	0.01
40	10.0-18.0	0.01
50	18.0-24.0	0.01
60	24.0-34.0	0.01

FEATURES:

- 53100851~3 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- With ER collets, the flexible range of collet is 1 mm.
- Capable collet clamping range: Min. Ø2 mm, Max. Ø34 mm
- 53100851~3 can rapidly clamp the workpiece, and achieve higher stability during processing, no need to adjust the center accuracy.
- Motorised function prevents human fatigue when operating.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model is compatible with various ER collets such as ER20, ER32, ER50, etc.

Main parameters:

Center height 85±0.5 mm
 Motor: 110V/60Hz..... 50~550 RPM
 Motor: 220V/50Hz 50~550 RPM
 Rotational accuracy..... 0.003 mm



ITEM NO.	TYPE	ER COLLET SPEC	VOLTAGE	N.W.
53100851	SER20	3, 4, 6, 8, 10	110V 220V	24.9 kgs 24.9 kgs
53100852	SER32	4, 8, 12, 16, 20	110V 220V	24.8 kgs 24.8 kgs
53100853	SER50	12, 18, 20, 30, 34	110V 220V	25.7 kgs 25.7 kgs



FINE-TUNING TYPE PUNCH FORMER

ITEM NO. 53100854



N.W. 8.2 kgs

FEATURES:

- 53100854 punch former with fine-tuning function also has stronger compact structure and longer durability.
- Suitable application on surface grinding machine and EDM machines and capable of forming various shapes of punches. 53100854 has through hole design which allows longer punches and ejector pins to be clamped during processing.
- V-block clamping can accurately stabilize workpieces, and vertical fine-tuning function can make setting center easier.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot which makes it easier to precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.



Precisely ground screw rod for fine-tuning of V-block movement.

Two clamp plates on both sides of V-block help consistent movement.

V-block is adjustable for calibration even when small workpiece is clamped.

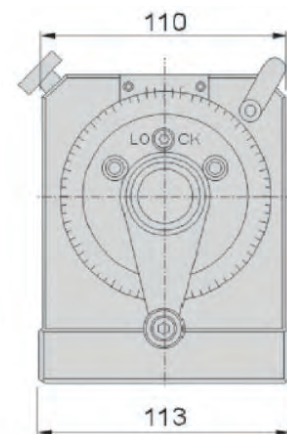
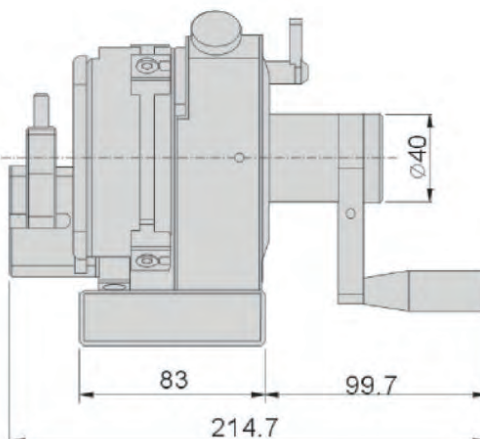
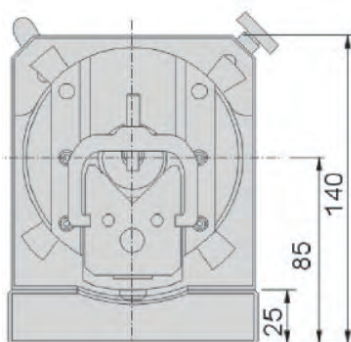
Release the screw when making adjustment and lock with slight force.



Main parameters:

Center height	85±0.5 mm
Clamping dia. range of V-block	ø3~30 mm
Travel of V-block	25 mm
Indexer tooth q'ty & accuracy	24, 15° ±10"
Through hole diameters	ø30 mm
Clamping accuracy (50mm).....	0.005 mm

Punch Forming Applications



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



FINE-TUNING TYPE PUNCH FORMER

V ITEM NO. 53100855



N.W. 9.2 kgs

FEATURES:

- 53100855 punch former with fine-tuning function also has stronger compact structure and longer durability.
- Due to its vertical & horizontal adjustment function, it is specially suitable for oval punch grinding.
- V-block clamping can accurately stabilize workpieces, and vertical fine-tuning function can make setting center easier.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot which makes it easier to precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.



- Stopper block for horizontal movement.
- Screw rod for V-block vertical movement.
- Release the screw when making adjustment and lock with slight force.

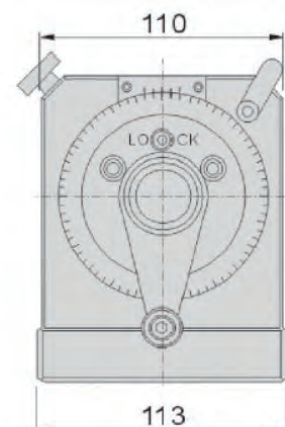
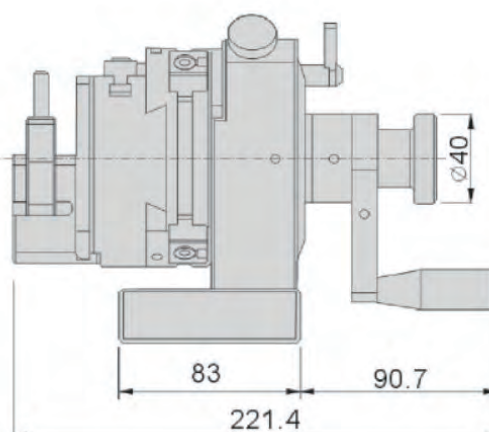
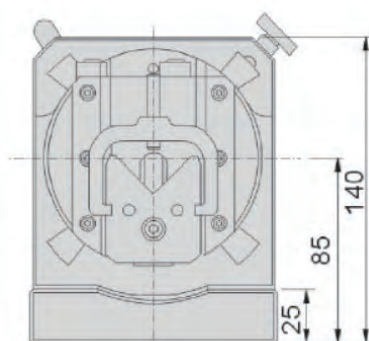
Precisely ground screw rod for fine-tuning of V-block movement.



Main parameters:

Center height	85±0.5 mm
Clamping dia. range of V-block	ø3~30 mm
Travel of V-block	45 mm
Slide plate horizontal movement	±18 mm
Indexer tooth q'ty & accuracy	24, 15° ±10"
Clamping accuracy (50mm).....	0.005 mm

Punch Forming Applications





3-JAW PUNCH FORMERS



ITEM NO. 53100856

FEATURES:

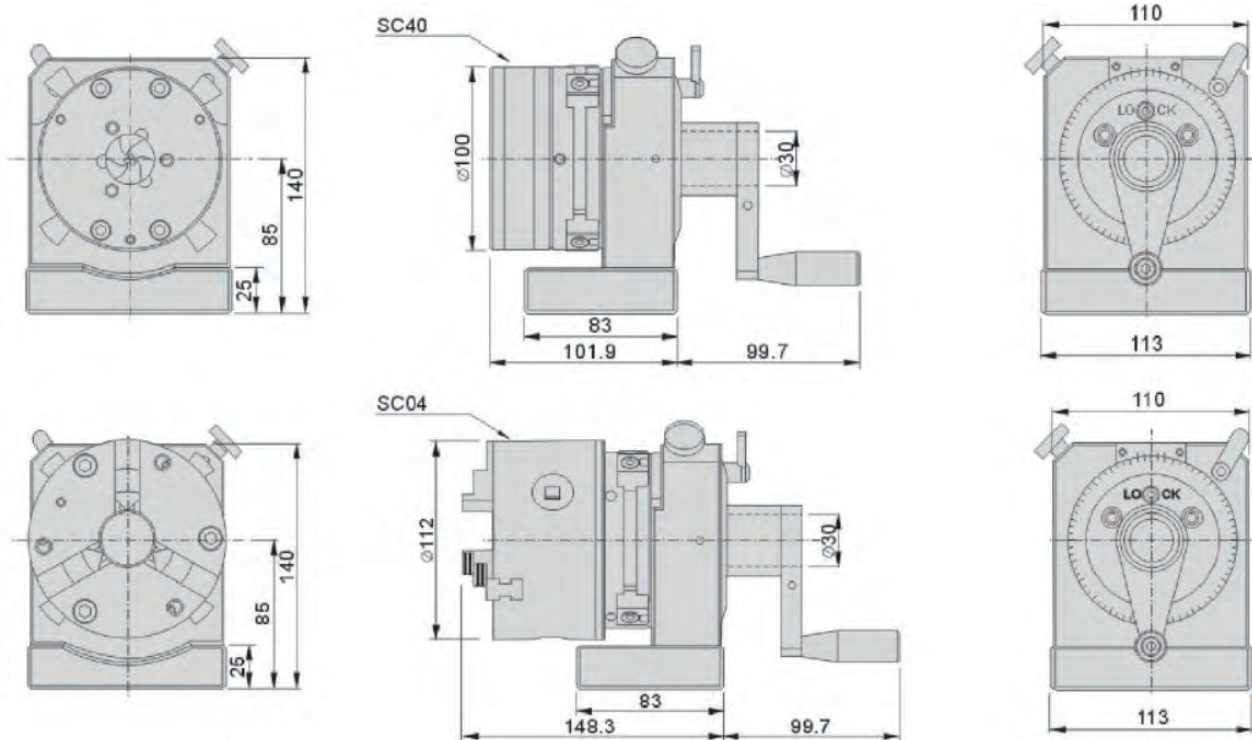
- 53100856 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- Special designed SC40 3-jaw chuck provides rapid clamping, and it is suitable for mass production.
- Workpiece with round shape can be precisely & rapidly clamped.
- Torque wrench is included for user-friendly purpose.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- 53100857 jaw attachment enables larger outer diameter workpiece to be clamped.



ITEM NO. 53100857

Main parameters:

Center height	85±0.5 mm
Indexer tooth q'ty & accuracy	24, 15° ±10"
SC04 3-Jaw Chuck	
Min. clamping range	ø1 mm
Max. clamping range	25 mm
Rotational accuracy	0.003 mm
Repeat accuracy	0.003 mm
SC40 3-Jaw Chuck hole dia	
Min. clamping range	O.D. ø3 mm, I.D. ø32 mm
Max. clamping range	O.D. ø3 mm, I.D. ø4 mm
Repeat accuracy	0.015 mm



ITEM NO.	TYPE	N.W.
53100856	SC40	8.5 kgs
53100857	SC04	7.8 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PRECISION MOTOR 3-JAW PUNCH FORMER

ITEM NO. 53100858

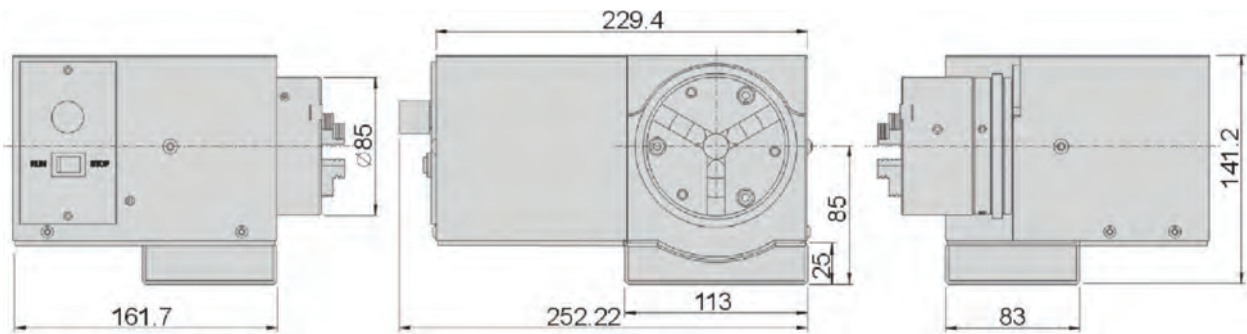


FEATURES:

- 53100858 has stronger structure, leading lasting durability.
- 3-jaw chuck provides rapid clamping, and it is suitable for mass production.
- Workpiece with round shape can be precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special function in horizontal and roundness adjustment is designed for user to adjust himself.
- Jaw attachment can clamp workpeice with larger diameters.
- Motorised function prevents human fatigue when processing.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height 85±0.5 mm
Through hole diameters ø16 mm
Hole dia. of 3-jaw chuck ø16 mm
Min. clamping range O.D. ø2 mm, I.D. ø24 mm
Max. clamping range O.D. ø2 mm, I.D. ø64 mm
Motor: 110V/60Hz 50~550 RPM
Motor: 220V/50Hz 50~550 RPM
Rotational accuracy 0.003 mm
Repeat accuracy 0.015 mm



TYPE	TYPE	N.W.
SC03	110V	17 kgs
	220V	17 kgs



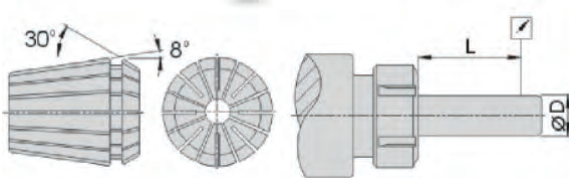
ER COLLET PUNCH FORMERS

ITEM NO. 53100859~61



FEATURES:

- 53100859~61 has stronger structure, leading lasting durability.
- With ER collets, the flexible range of collet is 1mm.
- Capable collet clamping range: Min Ø2 mm, Max. Ø26 mm
- 53100859~61 can rapidly clamp the workpiece, and achieve higher stability during processing, no need to adjust the center accuracy.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model is compatible with various ER collets such as ER20, ER32, ER40, etc.

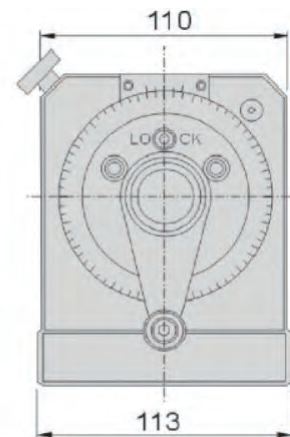
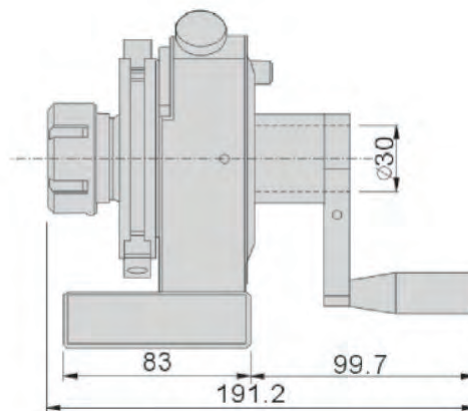
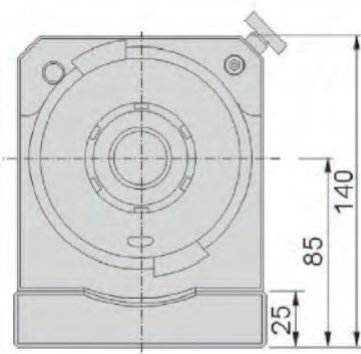


UNIT: mm

L	D	ACCURACY
6	1.0-1.6	0.01
10	1.6-3.0	0.01
16	3.0-7.0	0.01
25	7.0-10.0	0.01
40	10.0-18.0	0.01
50	18.0-24.0	0.01
60	24.0-34.0	0.01

Main parameters:

Center height 85±0.5 mm
 Indexer tooth q'ty & accuracy 24, 15° ±10"
 Through hole diameters ø30 mm
 Rotational accuracy 0.003 mm



ITEM NO.	TYPE	ER COLLET SPEC	N.W.
53100859	SER20	3, 4, 6, 8, 10,	5.5 kgs
53100860	SER32	4, 8, 12, 16, 20,	6.5 kgs
53100861	SER40	6, 10, 16, 20, 25	6.6 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



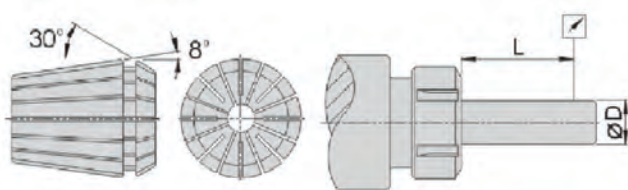
PRECISION MOTOR ER COLLET PUNCH FORMERS

✓ ITEM NO. 53100862~4



FEATURES:

- 53100862~4 has stronger structure, leading lasting durability.
- Motorised function prevents human fatigue when processing.
- With ER collets, the flexible range of collet is 1 mm.
- Capable collet clamping range: Min Ø2 mm, Max. Ø26 mm.
- 53100862~4 can rapidly clamp the workpiece, and achieve higher stability during processing, no need to adjust the center accuracy.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model is compatible with various ER collets such as ER20, ER32, ER40, etc.

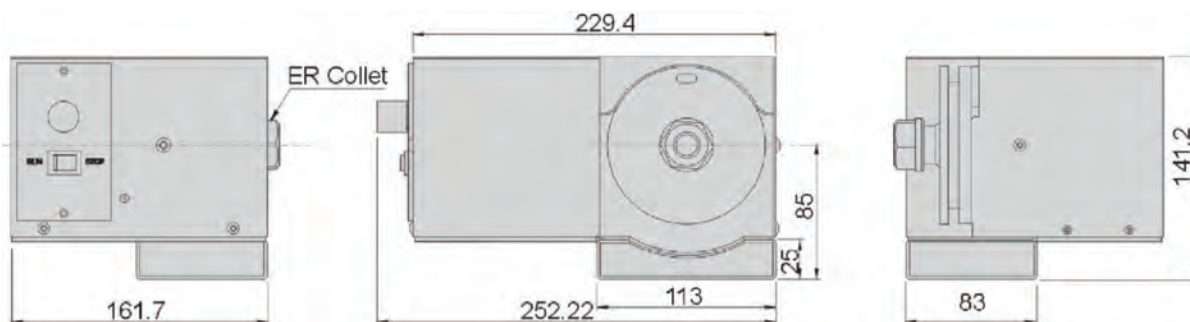


UNIT: mm

L	D	ACCURACY
6	1.0-1.6	0.01
10	1.6-3.0	0.01
16	3.0-7.0	0.01
25	7.0-10.0	0.01
40	10.0-18.0	0.01
50	18.0-24.0	0.01
60	24.0-34.0	0.01

Main parameters:

Center height 85±0.5 mm
 Motor: 110V/60Hz 50~550 RPM
 Motor: 220V/50Hz 50~550 RPM
 Rotational accuracy 0.003 mm



ITEM NO.	TYPE	ER COLLET SPEC	VOLTAGE	N.W.
53100862	SER20	3, 4, 6, 8, 10,	110V	17 kgs
			220V	17 kgs
53100863	SER32	4, 8, 12, 16, 20,	110V	18 kgs
			220V	18 kgs
53100864	SER40	6, 10, 16, 20, 25	110V	19 kgs
			220V	19 kgs



PRECISION PUNCH FORMER (MEDIUM TYPE)

ITEM NO. 53100865



N.W. 13.0 kgs

FEATURES:

- 53100865 precision punch former has stronger compact structure and long lasting durability.
- Suitable application on surface grinding machine and EDM machines, and capable of forming various shapes of punches.
- 53100865 has through hole design which allows longer punches and ejector pins to be clamped during processing.
- V-block clamping can accurately stabilize workpieces, and vertical fine-tuning function can make setting center easier.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot makes it easier to precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.



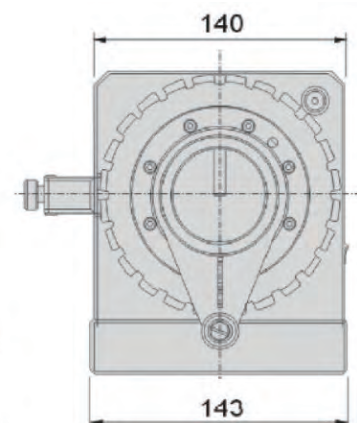
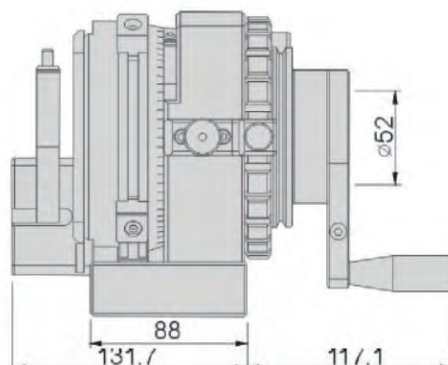
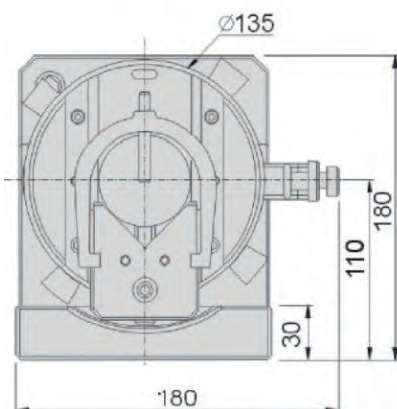
Precisely ground screw rod for fine-tuning of V-block vertical movement.

Two clamp plates on both sides of V-block help consistent movement.

Main parameters:

Center height	110±0.5 mm
Clamping dia. range of V-block	ø5~50 mm
Travel of V-block	34 mm
Indexer tooth q'ty & accuracy	24, 15° ±5"
Through hole diameters	ø52 mm
Clamping accuracy (50mm)	0.005 mm

Punch Forming Applications



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

PRECISION PUNCH FORMER (MEDIUM TYPE)

ITEM NO. 53100866



N.W. 14.7 kgs

FEATURES:

- 53100866 punch former with fine-tuning function also has stronger compact structure and longer durability.
- Suitable application on surface grinding machine and EDM machines, and capable of forming various shapes of punches.
- Due to its vertical & horizontal adjustment function, it is specially suitable for oval punch grinding.
- V-block clamping can accurately stabilize workpieces, and vertical fine-tuning function can make setting center easier.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot which make it easier to precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.



Stopper block for horizontal movement.

Two clamp plates on both sides of V-block help consistent movement.

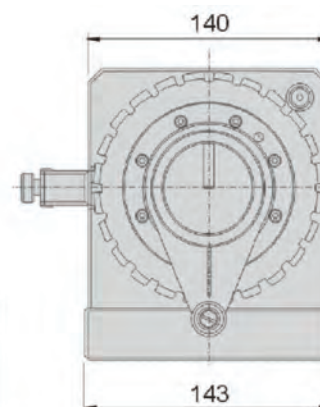
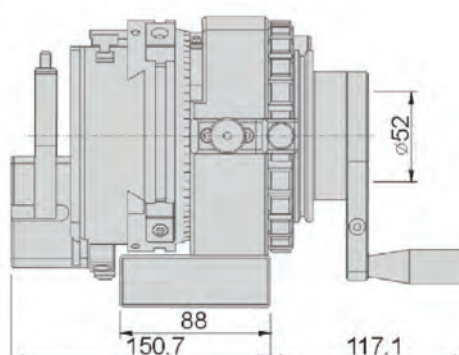
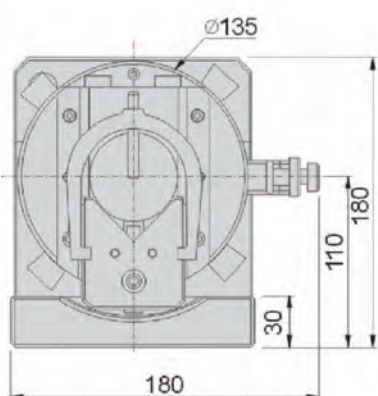
Precisely ground screw rod for fine-tuning of V-block vertical movement.



Main parameters:

Center height	110±0.5 mm
Clamping dia. range of V-block	ø5~50 mm
Travel of V-block	36 mm
Indexer tooth q'ty & accuracy	24, 15° ±10"
Through hole diameters	0.005 mm
Clamping accuracy (50mm).....	±25 mm

Punch Forming Applications





PRECISION PUNCH FORMER (BIG TYPE)

ITEM NO. 53100867



N.W. 23.5 kgs



Precisely ground screw rod for fine-tuning of V-block vertical movement.

Two clamp plates on both sides of V-block help consistent movement.

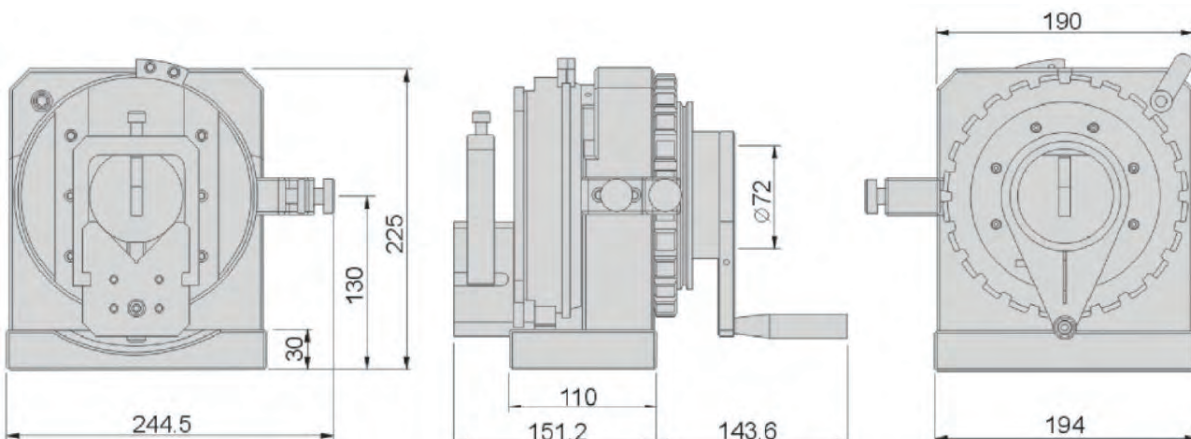
FEATURES:

- 53100867 precision punch former has stronger compact structure and long lasting durability.
- Suitable application on surface grinding machine and EDM machines, and capable of forming various shapes of punches.
- 53100867 has through hole design which allows longer punches and ejector pins to be clamped during processing.
- V-block clamping can accurately stabilize workpieces, and vertical fine-tuning function can make setting center easier.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot which makes it easier to precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.

Main parameters:

Center height	130±0.5 mm
Clamping dia. range of V-block	ø3~69.5 mm
Travel of V-block	48 mm
Indexer tooth q'ty & accuracy	24, 15° ±10"
Through hole diameters	ø72 mm
Clamping accuracy (50mm).....	0.005 mm

Punch Forming Applications



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PRECISION PUNCH FORMER (BIG TYPE)

V ITEM NO. 53100868



N.W. 27 kgs

FEATURES:

- 53100868 precision punch former has stronger compact structure and long lasting durability.
- Suitable application on surface grinding machine and EDM machines, and capable of forming various shapes of punches.
- Due to its vertical & horizontal adjustment function, it is specially suitable for oval punch grinding.
- V-block clamping can accurately stabilize workpieces, and vertical fine-tuning function can make setting center easier.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- Stopper design in position slot which makes it easier to precisely stabilize polygonal punches.
- Improvement in dust-proof and water resistance.



- Stopper block for horizontal movement.
- Screw rod for V-block vertical movement.
- Release the screw when making adjustment and lock with slight force.

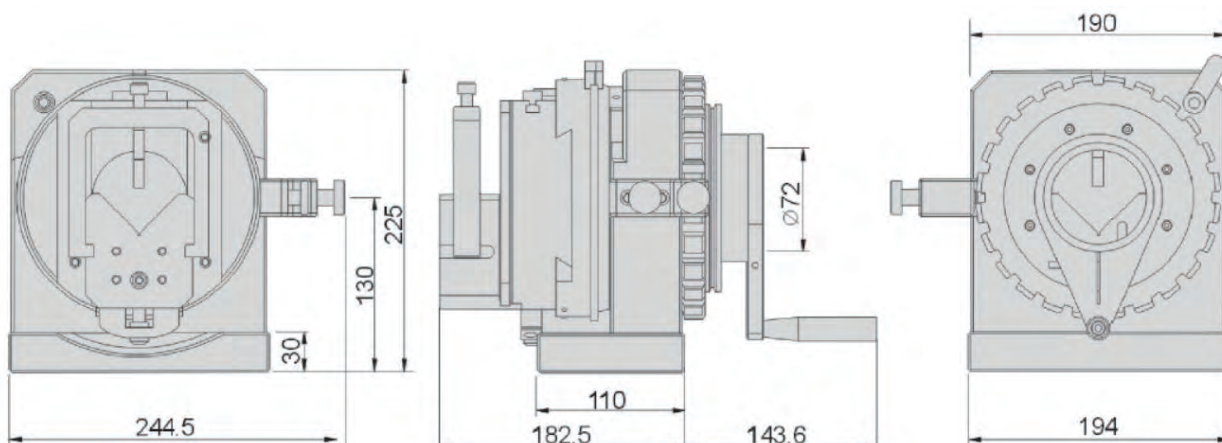
Main parameters:

Center height	130±0.5 mm
Clamping dia. range of V-block	ø3~69.5 mm
Travel of V-block	48 mm
Indexer tooth q'ty & accuracy	24, 15° ±10"
Through hole diameters	0.005 mm
Clamping accuracy (50mm).....	±30 mm

Precisely ground screw rod for fine-tuning of V-block.



Punch Forming Applications





PRECISION 3-JAW PUNCH FORMER (BIG TYPE)



◀ ITEM NO. 53100869

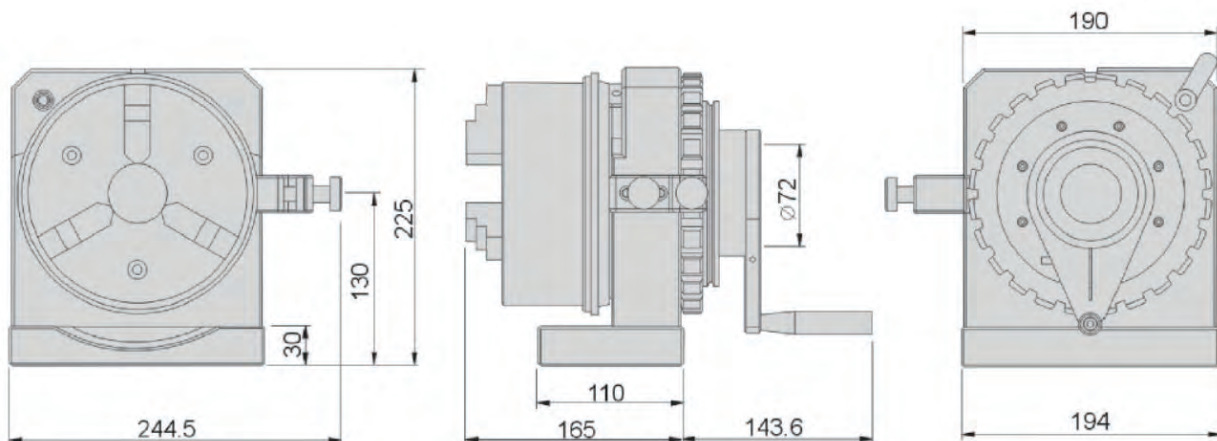
N.W. 27 kgs

FEATURES:

- 53100869 has stronger structures leading lasting durability.
- 53100869 provides rapid clamping, and it is suitable for mass production. Workpiece with round shape can be precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special function in horizontal and roundness adjustment is designed for user to adjust himself.
- Further jaw attachment can clamp workpiece with larger diameters.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height	130±0.5 mm
Indexer tooth q'ty & accuracy	24, 15° ±10"
Through hole diameters	ø45 mm
Hole dia. of 3-jaw chuck	ø45 mm
Min. clamping range	O. D. ø4 mm, I. D. ø 48 mm
Max. clamping range	O. D. ø160 mm, I. D. ø 150 mm
Rotational accuracy	0.003 mm
Repeat accuracy	0.015 mm



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PRECISION MOTOR 3-JAW PUNCH FORMER



◀ ITEM NO. 53100870

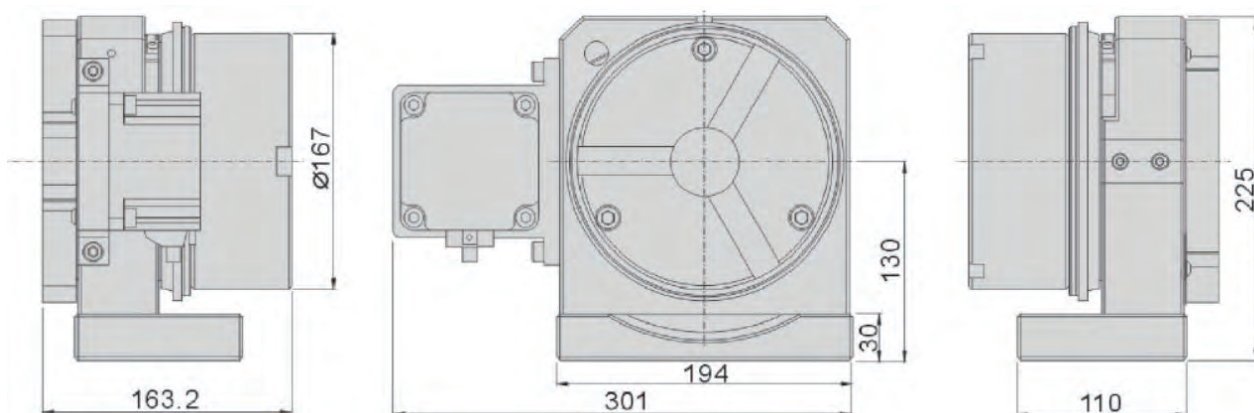
N.W. 27 kgs

FEATURES:

- 53100870 has stronger structure, leading lasting durability.
- Motorised function prevents human fatigue when processing.
- 53100870 provides rapid clamping, and it is suitable for mass production. Workpiece with round shape can be precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpieces, special function in horizontal and roundness adjustment is designed for user to adjust himself.
- Further jaw attachment can clamp workpiece with larger diameters.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

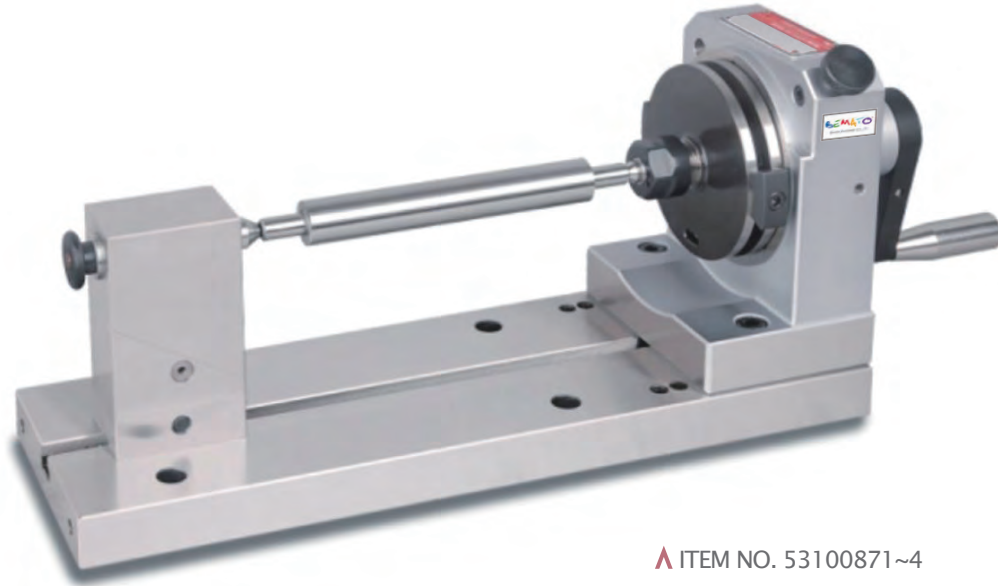
Center height 130±0.5 mm
 Indexer tooth q'ty & accura..... 24,15° ±5"
 Through hole diameters..... ø45 mm
 Hole dia. of 3-jaw chuck..... ø45 mm
 Min. clamping range..... O. D. ø4 mm, I. D. ø48 mm
 Max. clamping range O. D. ø160 mm, I. D. ø48 mm
 Motor: 110V60Hz..... 50~550 RPM
 Motor: 220V60Hz..... 50~550 RPM
 Rotational accuracy 0.003 mm
 Repeat accuracy 0.015 mm



TYPE	VOLTAGE	N.W.
SC06	110V	30 kgs
	220V	30 kgs



CENTER PUNCH FORMERS



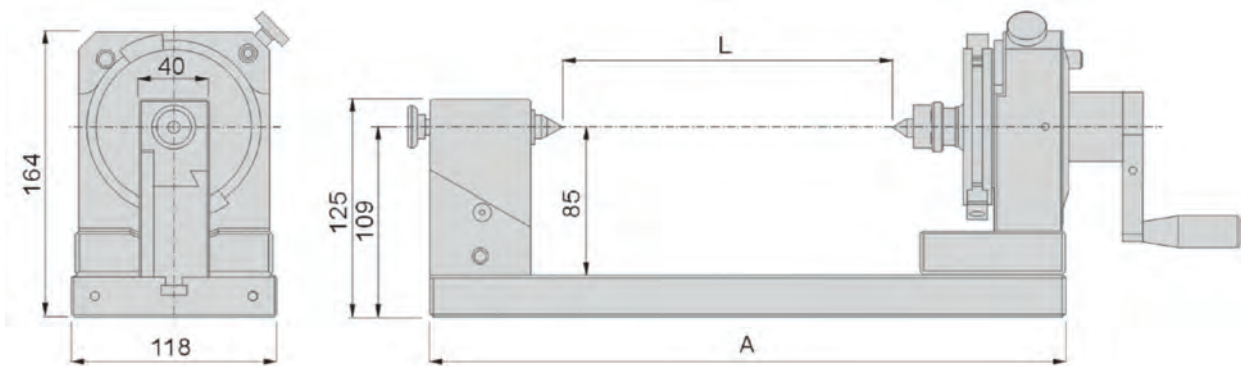
▲ ITEM NO. 53100871~4

FEATURES:

- Center punch formers apply live center at both sides to clamp punch to achieve concentricity.
- Live center stabilizes the process and achieves higher accuracy.
- It is mainly applied on bushes and cylinder which needs precision cylindrical grinding on surface grinding machines.

Main parameters:

Center height without base	85 mm
Center height with base	109 mm
Indexer tooth quantity & accuracy	24, 15° ±10"
Live center clamping range	0~450 mm
Material.....	SKS3, HRC 60~62°
Roundness	0.002 mm
Parallelism	0.002 mm/100 mm
Squareness	0.002 mm/100 mm



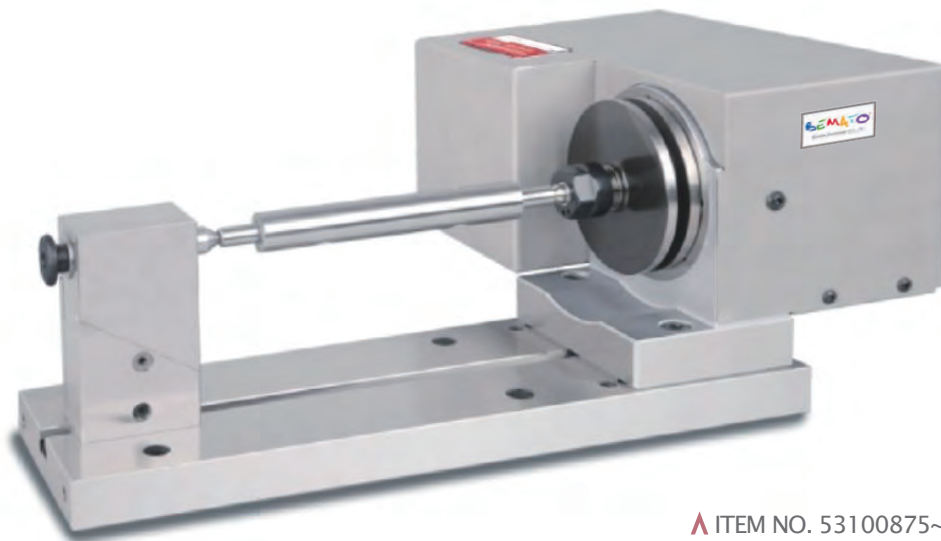
UNIT: mm

ITEM NO.	TYPE	A	L	ROTARY ANGLE	N.W.
53100871	150	375	0~150	360°	20 kgs
53100872	250	475	0~250		23 kgs
53100873	350	575	0~350		26 kgs
53100874	450	675	0~450		29.5 kgs

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MOTOR CENTER PUNCH FORMERS



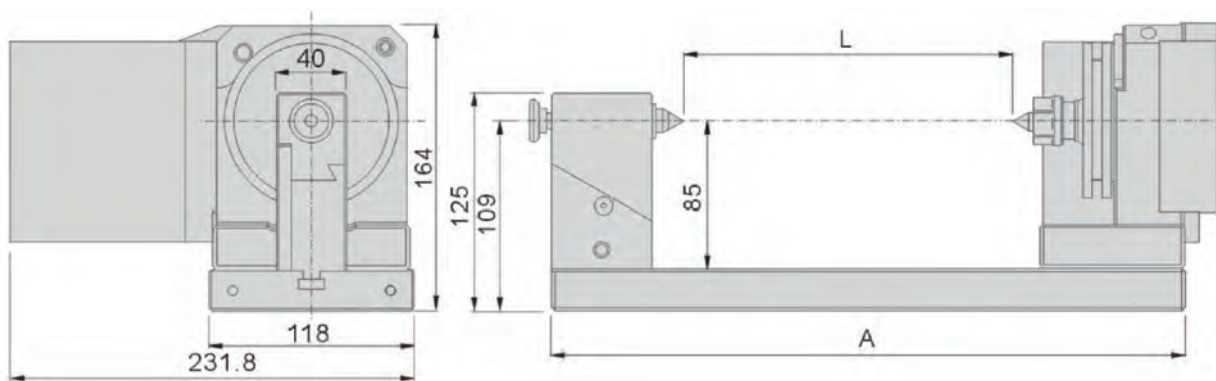
▲ ITEM NO. 53100875~8

FEATURES:

- Center punch formers apply live center at both sides to clamp punch to achieve concentricity.
- Motorised function prevents human fatigue when processing.
- Live center stabilizes the process and achieves higher accuracy.
- It is mainly applied on bushes and cylinder which needs precision cylindrical grinding on surface grinding machines.

Main parameters:

Center height without base 85 mm
 Center height with base 109 mm
 Clamping range 0-450 mm
 Motor output, Voltage 15W, 1PH, 110V/220V
 Motor speed 50HZ/60HZ, 50-550 RPM
 Material of punch former SKS3, HRC 60~62°
 Roundness 0.002 mm
 Parallelism 0.002 mm/100 mm
 Squareness 0.002 mm/100 mm



UNIT: mm

ITEM NO.	VOLTAGE	TYPE	A	L	ROTARY ANGLE	N.W.
53100875	110V / 220V	150M	375	0~150	360°	23 kgs
53100876	110V / 220V	250M	475	0~250		26 kgs
53100877	110V / 220V	350M	575	0~350		29 kgs
53100878	110V / 220V	450M	675	0~450		32.5 kgs



3-JAW CENTER PUNCH FORMERS



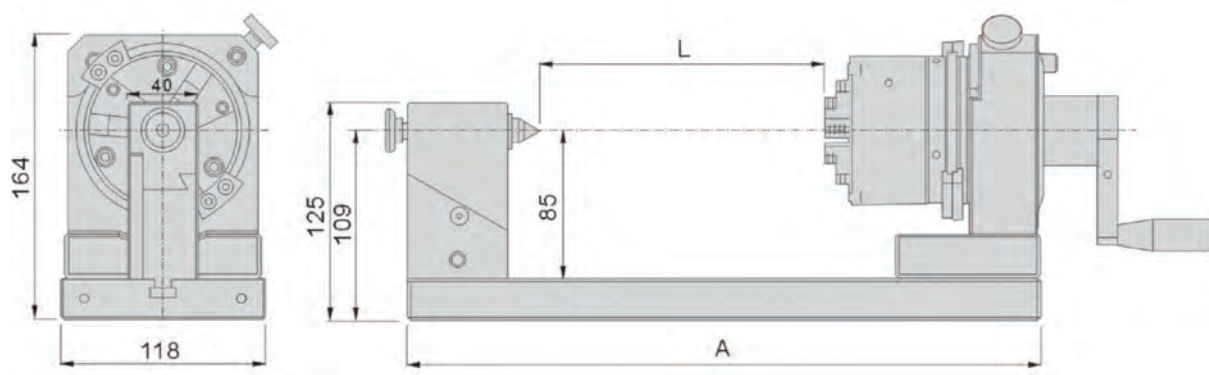
▲ ITEM NO. 53100879~82

FEATURES:

- 3-jaw center punch formers apply 3-jaw chuck to clamp workpieces with rapid and easy loading process.
- It is capable of grinding long punches which cannot be processed by conventional punch formers.
- Live center stabilizes the process and achieves higher accuracy.
- It is mainly applied on bushes and cylinder which needs precision cylindrical grinding on surface grinding machines.

Main parameters:

Center height without base	85 mm
Center height with base	109 mm
Indexer tooth quantity & accuracy	24, 150° ±10"
Live center clamping range	0~450 mm
Material of punch former	SKS3, HRC60-62°
Hole dia. of 3-jaw chuck	ø16 mm
Diameter of 3-jaw chuck	ø85 mm
Clamping range of 3-jaw chuck.....	ø1~82 mm
Material of 3-jaw chuck	Meehanite
Roundness	0.002 mm
Parallelism	0.002 mm/100 mm
Squareness	0.002 mm/100 mm



							UNIT: mm
ITEM NO.	TYPE	O. D. RANGE	I. D. RANGE	A	L	ROTARY ANGLE	N.W.
53100879	150	ø2~70	ø24~64	375	0~150	360°	20 kgs
53100880	250			475	0~250		23 kgs
53100881	350			575	0~350		26 kgs
53100882	450			675	0~450		29.5 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MOTOR 3-JAW CENTER PUNCH FORMERS



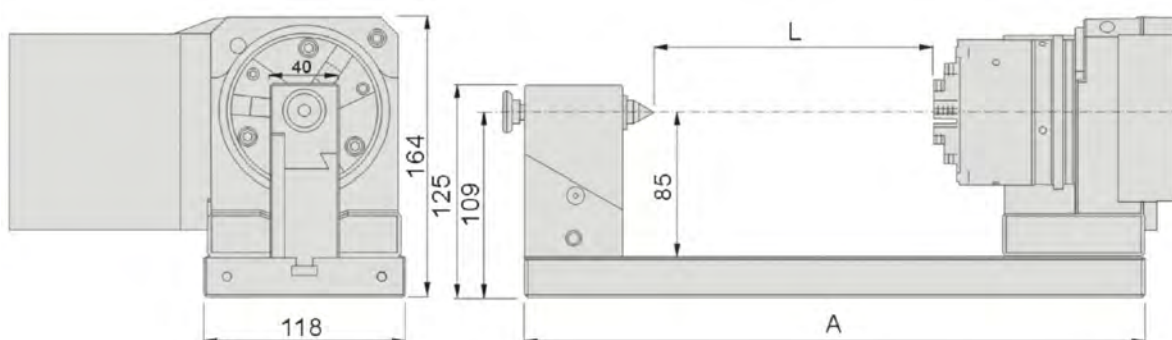
▲ ITEM NO. 53100883~6

FEATURES:

- 3-jaw center punch formers apply 3-jaw chuck to clamp workpieces with rapid and easy loading process.
- Motorised function prevents human fatigue when processing.
- Live center stabilizes the process and achieves higher accuracy.
- It is mainly applied on bushes and cylinder which needs precision cylindrical grinding on surface grinding machines.

Main parameters:

Center height without base 85 mm
 Center height with base 109 mm
 Motor output, Voltage 15W 110V/220V
 Motor speed 50HZ/60HZ, 50-550 RPM
 Indexer tooth quantity & accuracy ... SKS3, HRC60-62°
 Live center clamping range 0~450 mm
 Hole dia. of 3-jaw chuck $\phi 16$ mm
 Diameter of 3-jaw chuck 60 mm
 Clamping range of 3-jaw chuck $\phi 1 \sim 82$ mm
 Material of 3-jaw chuck Meehanite
 Roundness 0.002 mm
 Parallelism 0.002 mm/100 mm
 Squareness 0.002 mm/100 mm



UNIT: mm

ITEM NO.	VOLTAGE	TYPE	O.D. RANGE	I.D. RANGE	A	L	ROTARY ANGLE	N.W.
53100883	110V / 220V	150M	$\phi 2 \sim 70$	$\phi 24 \sim 64$	375	0~150	360°	23 kgs
53100884	110V / 220V	250M			475	0~250		26 kgs
53100885	110V / 220V	350M			575	0~350		29 kgs
53100886	110V / 220V	450M			675	0~450		32.5 kgs



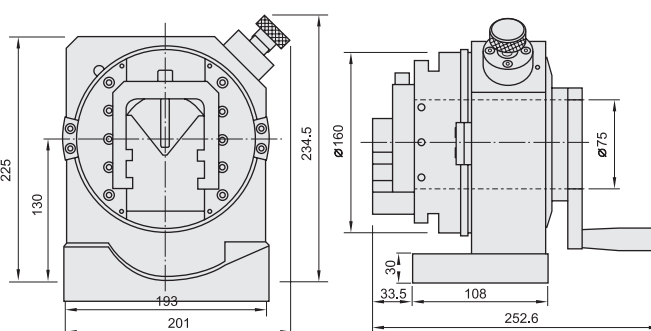
PUNCH FORMER (VERTICAL)

FEATURES:

- It is applicable on surface grinder to clamp punches within $\varnothing 70$ mm for grinding various shapes.
- The micro-adjustment V-block moves vertically, and workpiece can be clamped steadily and accurately.
- Max. clamping diameter is 70 mm.



▲ ITEM NO. 53100117



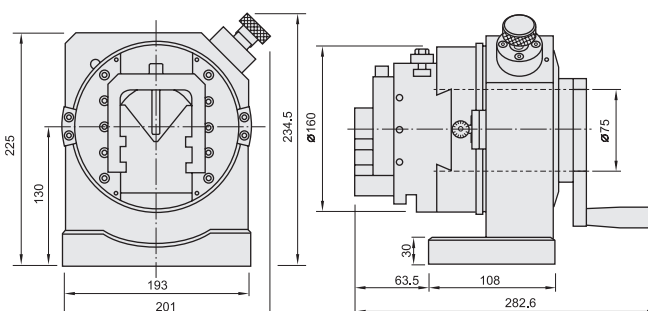
PUNCH FORMER (VERTICAL/HORIZONTAL)

FEATURES:

- It is applicable on surface grinder to clamp punches within $\varnothing 70$ mm for grinding various shapes.
- Unit moves vertically and horizontally. Both movements can be micro-adjusted for centering accurately.
- Max. clamping diameter is 70 mm.



▲ ITEM NO. 53100118



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



3-JAW PUNCH FORMER

ITEM NO. 53100887



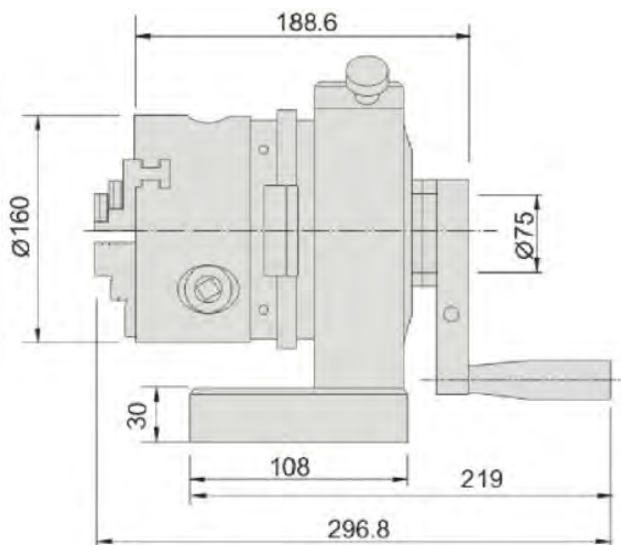
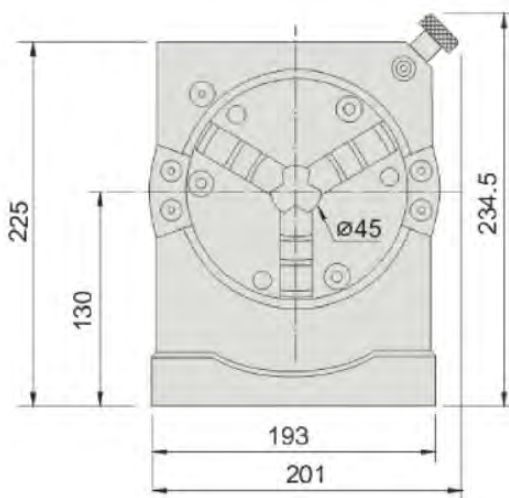
N.W. 24.3 kgs

FEATURES:

- 53100887 provides rapid clamping, and it is suitable for mass production. Workpiece with round shape can be precisely & rapidly clamped.
- Due to accumulated tolerance when clamping different sizes of workpiece, special function in horizontal and roundness adjustment is designed for user to adjust himself.
- Further jaw attachment can clamp workpiece with larger diameters.

Main parameters:

Center height	130 mm
Indexer tooth q'ty & accuracy	24, 15°± 10"
Through hole diameters	ø45 mm
Hole dia. of 3-jaw chuck	ø45 mm
3-jaw chuck repeat accuracy	0.015 mm
Min. clamping range : Outer dia.	ø4 mm
Inner dia.	ø48 mm
Max. clamping range : Outer dia.	ø160 mm
Inner dia.	ø150 mm





PUNCH FORMER (VERTICAL/HORIZONTAL)



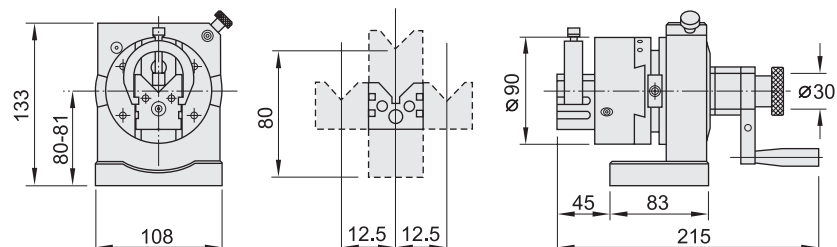
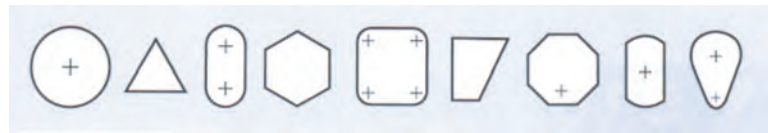
PUNCH FORMER (VERTICAL / HORIZONTAL)

- Punch former is an attachment for precision grinding different types of punches, electrodes of EDM on surface grinder and universal tool & cutter grinder.
- Unit moves vertically and horizontally.
- Unit includes a dressing arm for holding diamond bit to dress grinding wheel in various forming shapes.
- Centering accuracy within 0.005 mm.

SPECIFICATION:

Center height	80-81 mm
Max. clamping diameter in V-groove	Ø4-30 mm
V-block travel vertically	25 mm
V-block travel horizontally	24, 15°±5"
Indexing divisions and accuracy	Ø200 mm
Max. radius when dressing arc	
Convex	R48 mm
Concave	R100 mm
Weight	10 kgs

▲ ITEM NO. 53100119



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



PUNCH FORMINE (VERTICAL)



▲ ITEM NO. 53100120

PUNCH FORMER (VERTICAL)

- Unit has a center through hole for grinding application of long pin or punch.
- An angular dressing attachment is included for forming grinding wheel in various shapes.

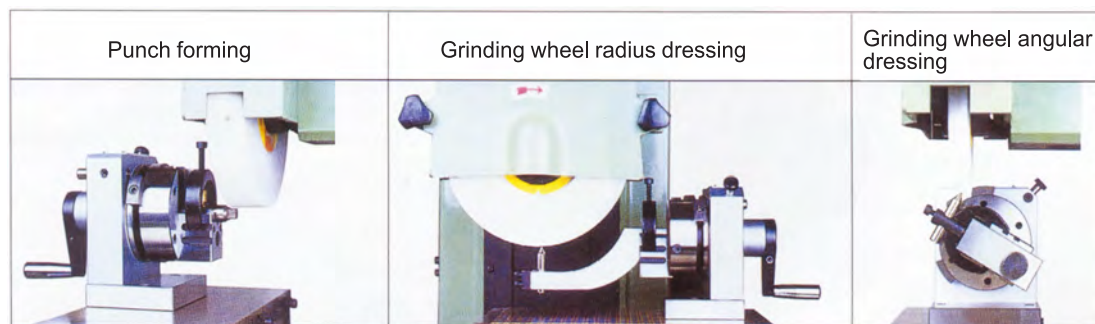
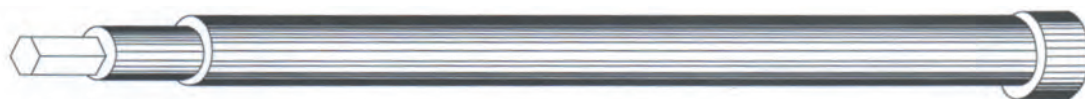
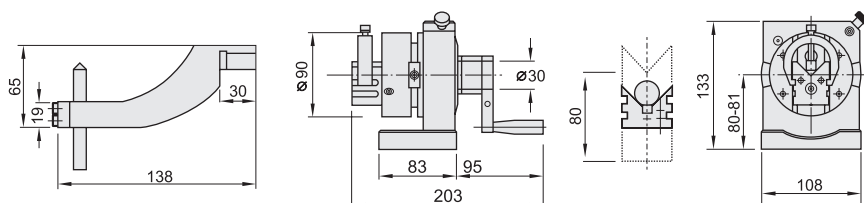
SPECIFICATION:

Center height 80-81 mm
 Clamping diameter in V-groove Ø4-30 mm
 V-block travel vertically 25 mm
 Indexing divisions and accuracy 24, 15°±5"
 Max. wheel diameter Ø200 mm
 Max. radius when dressing arc
 Convex R48 mm
 Concave R100 mm
 Weight 10.3 kgs



< OPTIONAL

< ITEM NO. 53210335





MOTOR PUNCH FORMER

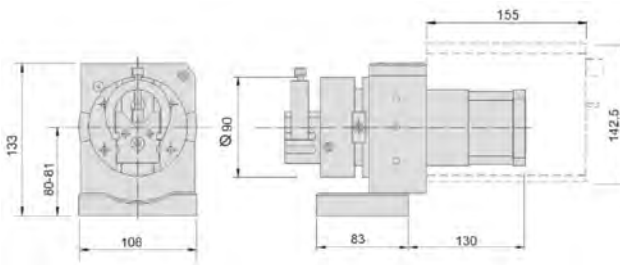
ITEM NO. 53100888



N.W. 9.1 kgs



without dust cover



FEATURES:

- Motorised function prevents human fatigue when processing.
- Increase efficiency when processing punches.

Main parameters:

Center height 80~81 mm
Clamping diameter in V-slot $\varnothing 4 \sim 30$ mm
Travel of V-block 25 mm
Clamping accuracy (50 mm) 0.005 mm
Roller driving motor 110V/60Hz 50~300 RPM
Roller driving motor 220V/150Hz 50~300 RPM

Note:

Variable speed from 1 to 100 ratio. When 100 is set, the top speed is 300 rpm. When set on 100 rpm, the panel is set approx. 30 ratio.

VOLTAGE

AC110V
AC220V



PUNCH FORMER-W/ 3-JAW CHUCK

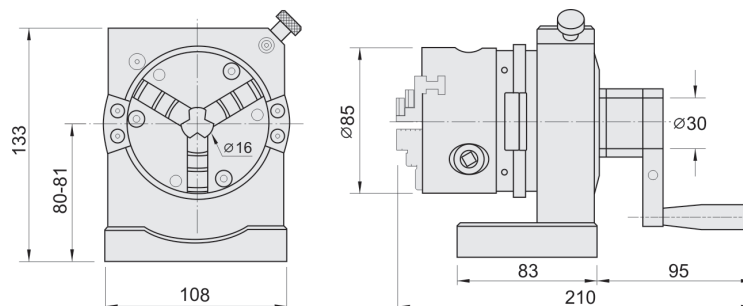


ITEM NO. 53100121

- Unit with 3-jaw chuck for mass production.
- Unit has micro-adjustment features for leveling and true running adjustment of workpiece to eliminate the accumulating error of 3-jaw chuck. Operator can easily adjust the workpiece precisely through this micro-adjustment device.
- Larger clamping capacity up to 70 mm diameter.
- Weight : 8.5 kgs

SPECIFICATION:

3-jaw chuck diameter 85 mm
Through hole diameter 16 mm
Min. clamping diameter 2 mm
Max. clamping diameter 70 mm



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MOTOR 3-JAW PUNCH FORMER

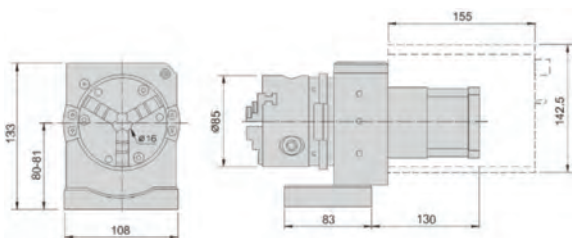
V ITEM NO. 53100889



N.W. 10.1 kgs



without dust cover



FEATURES:

- Motorised function prevents human fatigue when processing.
- Increase efficiency when processing punches.

Main parameters:

Center height 80~81 mm
 Rotational accuracy 0.003 mm
 Repeat accuracy 0.015 mm
 Hole dia. of 3-jaw chuck $\phi 16$ mm
 Min. clamping range O.D. $\phi 2$ mm, I.D. $\phi 24$ mm
 Max. clamping range O.D. $\phi 70$ mm, I.D. $\phi 64$ mm
 Motor : 110V/60Hz 50~550 RPM
 Motor : 220V/50Hz 50~550 RPM

Note:

Variable speed from 1 to 100 ratio. When 100 is set, the top speed is 300 rpm, When set on 100 rpm, the panel is set approx. 30 ratio.

VOLTAGE

AC110V

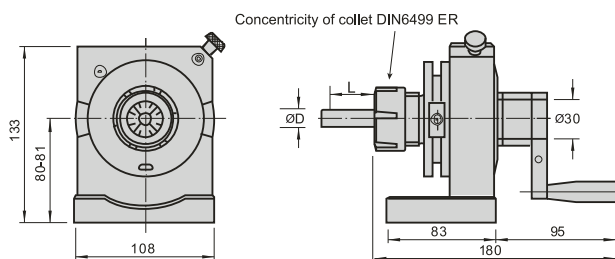
AC220V



PUNCH FORMER-W/ ER COLLET SYSTEM



A ITEM NO. 53100122



- Collet dividing punch formers have ER collet. Collet flexible within 1 mm.
- For workpiece diameter smaller than 4 mm, use shank 20 mm / ER16 collet chuck.
- It clamps workpieces quickly and steadily when processing without checking the centre.

UNIT: mm

ITEM NO.	TYPE	COLLET SIZE
53100667	ER-16	1、2、3、4、6、8
53100122	ER-32	4、6、8、10、12、16、20
53100668	ER-40	6、8、10、12、16、20、25



MOTOR ER COLLET PUNCH FORMERS

ITEM NO. 53100890~2



FEATURES:

- Motorised function prevents human fatigue when processing.
- With ER collets, the flexible range of collet is 1 mm.
- Clamping under 4 mm apply ER16 collet.
- 53100890~2 can rapidly clamp the workpiece, and achieve higher stability during processing, no need to adjust the center accuracy.
- This model is compatible with various ER collets such as ER16, ER32, ER40, etc.



without dust cover

Main parameters:

Center height 80~81 mm
 Motor : 110V/60Hz 50~300 RPM
 Motor : 220V/50Hz 50~300 RPM



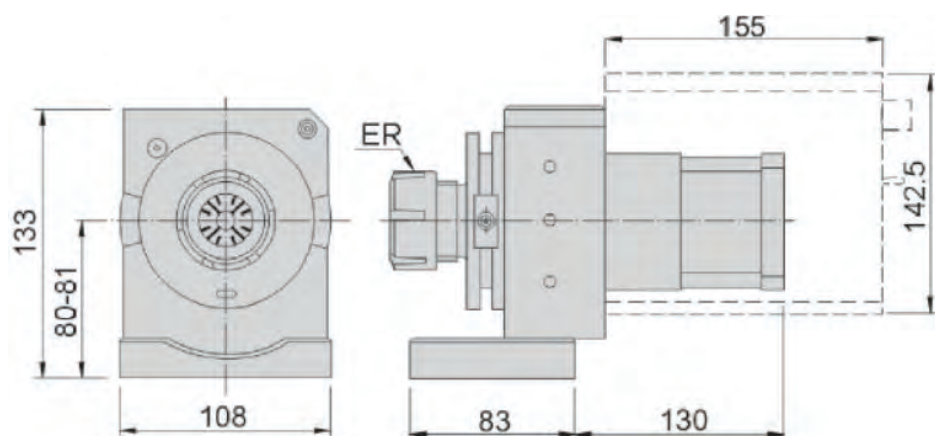
ER40

ER32

ER16

Note:

Variable speed from 1 to 100 ratio. When 100 is set, the top speed is 300 rpm. When set on 100 rpm, the panel is set approx. 30 ratio.



UNIT: mm

ITEM NO.	TYPE	COLLET SIZE	VOLTAGE	N.W.
53100890	ER16	2, 3, 4, 6, 8	AC110V AC220V	8.2 kgs
53100891	ER32	4, 8, 12, 16, 20	AC110V AC220V	9.2 kgs
53100892	ER40	6, 10, 16, 20, 25	AC110V AC220V	10.2 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

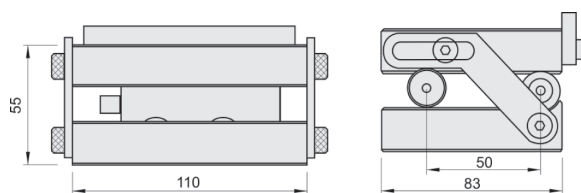


SINE PLATE FOR PUNCH FORMERS (53100120~53100122, 53100667~53100668)



FEATURES:

- It is used for punch formers to set various angles precisely.
Only available for items 53100119, 53100120, 53100121 and 53100122.
- Weight: 3.3 kgs
- Hardness: HRC 55
- Accuracy: within 0.005 mm



▲ ITEM NO. 53100123



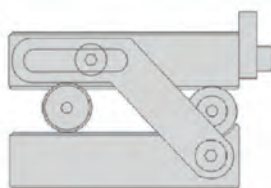
▲ ITEM NO. 53100120



▲ ITEM NO. 53100121



▲ ITEM NO. 53100122,
53100667, 53100668



SINE PUNCH FORMER



▲ ITEM NO. 53100120-1



▲ ITEM NO. 53100121-1



▲ ITEM NO. 53100122-1,
53100667-1, 53100668-1

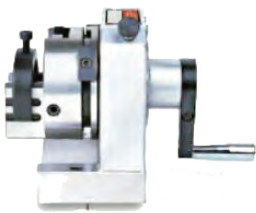
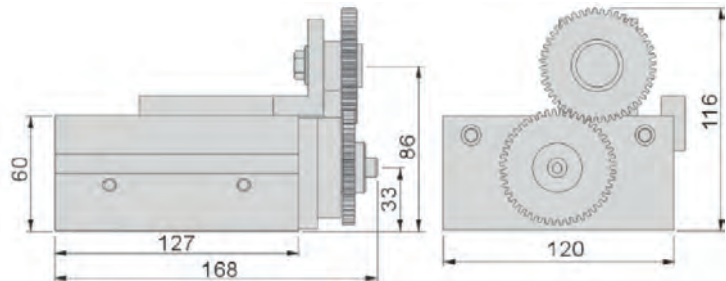


REPLACEABLE TYPE THREAD GRINDING SLIDER



FEATURES:

- 53210356, 53100123 sine plate is designed for applying on punch formers 53100119 ~ 53100122, 53100667~ 53100668 to make thread grinding.
- Depending on the thread pitch needs, choose the appropriate accessories.
(Pitch 0.5/0.7/0.8/1.0/1.25/1.5/1.75/2.0).
- Standard accessory: P1.0, and two extra thread bars from abovementioned spec.
- Dust proof cover is also included.
- Custom made thread bar is available.



▲ ITEM NO. 53100120



▲ ITEM NO. 53100121



▲ ITEM NO. 53100122,667~8

THREAD BARS



EXAMPLES:



◀ ITEM NO. 53210356
N.W. 7.6 kgs

THREAD GRINDING SLIDER.



▲ ITEM NO. 53100893
N.W. 15.2 kgs



▲ ITEM NO. 53100894
N.W. 15.2 kgs



▲ ITEM NO. 53100895~7
N.W. 13.2 kgs
14.2 kgs
15.2 kgs

SINE PUNCH FORMER



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

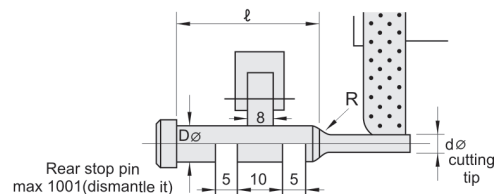
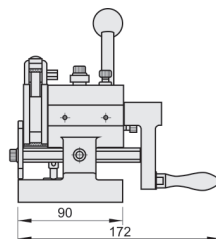
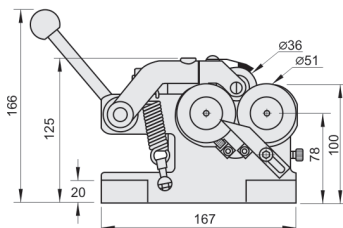
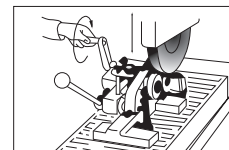
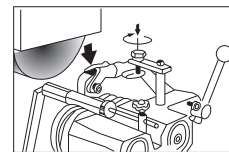
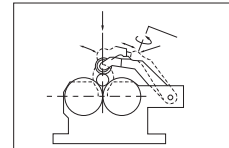
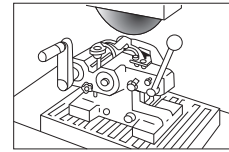


PUNCH GRINDER (FOR LARGE DIAMETER)

- Punch grinder is a tool which can be put on the surface grinder for grinding punches. It can do cylindrical grinding accurately as well.
- Accuracy of roller is within 0.005 mm. It can grind punches of outside diameter from 1.5 to 25 mm. Extended grinding length is within 5-35 mm.
- Weight: 6 kgs



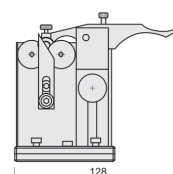
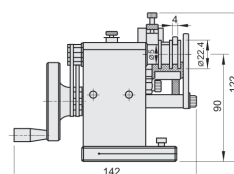
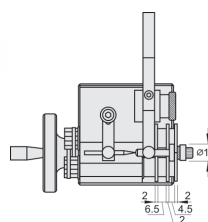
V ITEM NO. 53100124



PUNCH GRINDER (FOR LARGE DIAMETER)



- This punch grinder can process punches from diameter 0.5 mm to 6 mm and max. length of 10 mm.
- Clamping pressure of holding arm need to be adjusted adequately to prevent deflection of punches.



A ITEM NO. 53100125



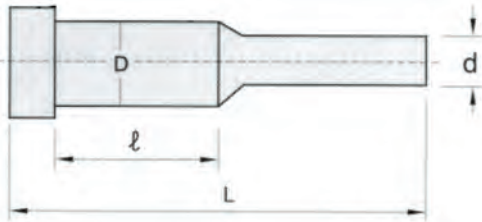
MOTORIZED PUNCH GRINDERS



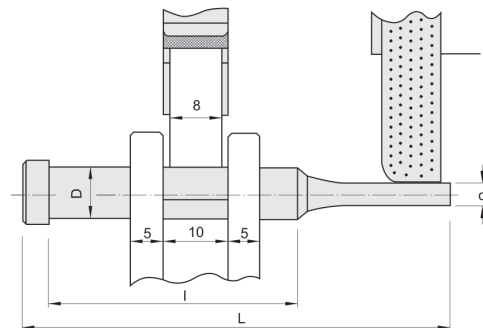
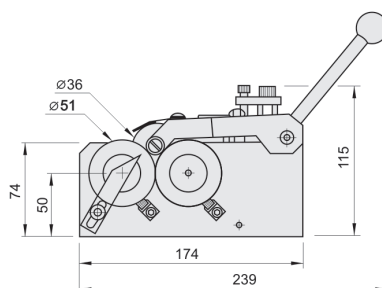
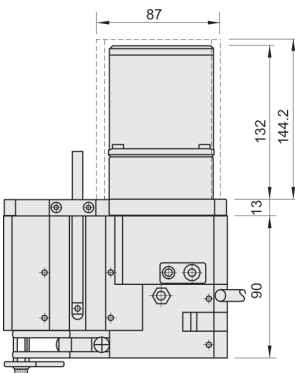
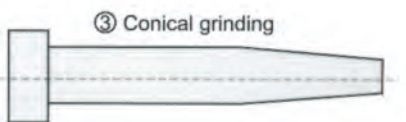
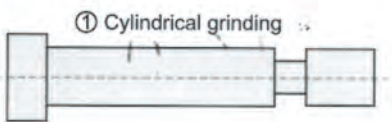
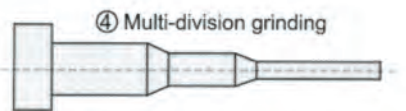
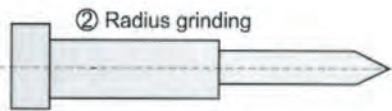
- To be used on surface grinder.
- No center alignment required, just put workpiece on rollers.
- Portable and handy.
- Motor driven rollers make jobs easily.
- Double rollers available for long pin or punch grinding.
- It can be used with magnetic sine plate to grind punches with various profiles.

SPECIFICATION:

Mounting surface	175 x 90 mm
Length of workpiece	20 x 120 mm
Outside grinding length	5-35 mm
Grinding diameter.....	1.5-25 mm
Accuracy	0.005 mm
Roller driving motor 110 V/60 HZ or 220 V/50 HZ	
Roller speeds	120 RPM/60 HZ 100 RPM/50 HZ
Accuracy roundness and concentricity	0.05 mm
Weight	10.2 kgs



ITEM NO.	VOLTAGE
53100126	110V 1PHASE
53100127	220V 1PHASE



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



UNIVERSAL WHEEL DRESSER



Universal wheel dresser is applicable on surface grinder and universal tool & cutter grinder for dressing grinding wheels into various cross sections of flat or curved shapes.

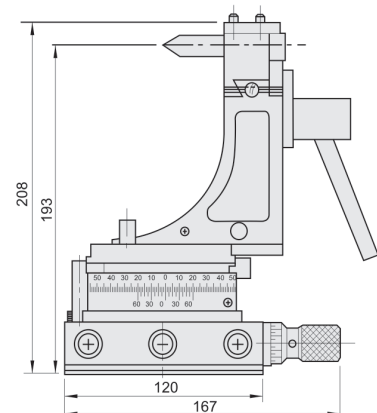
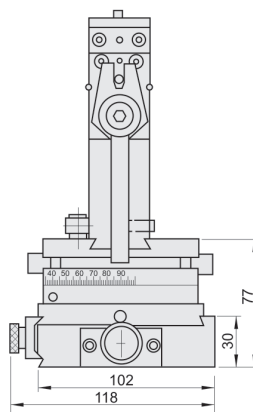
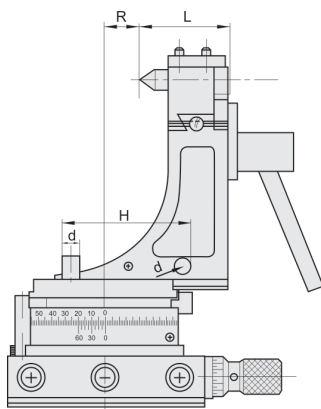
SPECIFICATION:

Center height	193 mm
Max. swing distance of diamond wheel	±14 mm
Max. wheel diameter	Ø200 mm
Reading accuracy of turret index	5'
Max. in-feed	25 mm
Feed per graduation of dial	0.01 mm
Weight	8.5 kgs

Grinding wheel dressing application



▲ ITEM NO. 53100128

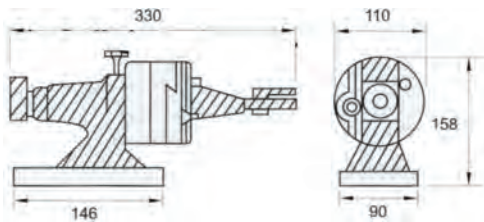




RADIUS AND ANGLE DRESSERS



▲ ITEM NO. 53100129



FEATURES:

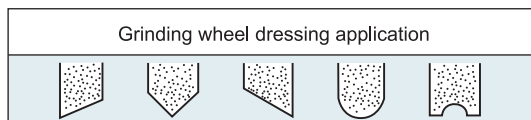
- Positive positioning of the diamond with setting gauge on dual purpose, reversible diamond holder included with the dresser.
- Simple, fast, accurate radius setting is measured over the twin pins with micrometer, or by inserting gauge blocks. Inside or outside radius is determined simply by moving the sliding pin to the right for concave and to the left for convex radius.
- 2x 90° graduation for combined 180° reading 6 minute vernier reading chrome plated.
- One push-pull type knob for radius and angle control is used for safer and faster operations.
- Accuracy and extremely close tolerances are held in the manufacture of this tool and assured by hardening and precision grinding of all critical parts.
- Economy, set-up and dressing time are reduced to a bare minimum due to simplicity.

SPECIFICATIONS:

- Max. wheel dia. 10"
- Height from base to center 4-3/32"
- Tangent travel, either side of center 1-5/8"
- 3/8" dia. diamond
- Internal radii 5/8"~1-5/8"
- External radii 0~1-5/8"
- Weight: 10 kgs

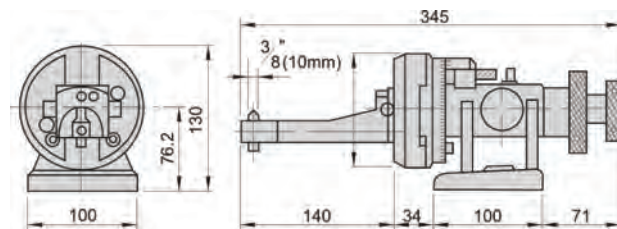


▲ ITEM NO. 53100130



FEATURES:

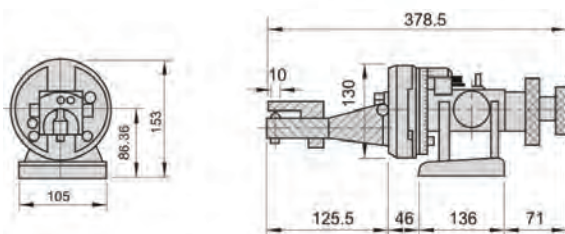
- No height gauge or set-up aids required.
- Radius is set on the grinder by measuring over the two pins or by inserting a gauge block for direct reading.
- Concave radius or convex radius is determined by using either the left or right hand pins.
- Weight: 8.5 kgs



◀ ITEM NO. 53100131

SPECIFICATIONS:

- 6 minute vernier reading.
- 5-1/2" long x 6-1/2" high.
- Dual purpose knob for drum & angle movement.
- Stop for concave and convex radii.
- Comes with setting gauge for diamond tool.
- Max. wheel diameter, standard 11"
- Concave radius with standard diamonds 0~2-1/4"
- Concave radius with rat-tail diamonds 0~4"
- Tangent travel either side of center 1.950"
- Center height 3.4"
- Weight 12 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



OPTICAL RADIUS & ANGLE DRESSER



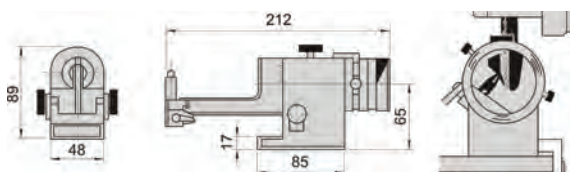
▲ ITEM NO. 53100132

FEATURES:

- Unit is applicable on surface grinder and universal tool & cutter grinder for dressing grinding wheel into various cross sections of flat or curved shapes.
- By "SIGHTING" the diamond point through the lens, radius and tangent can easily be made perfectly.

SPECIFICATIONS:

Center height 65 mm
 Max. wheel diameter 200 mm
 Max. convex radius 13 mm
 Max. concave radius 25.4 mm
 Dressing angle 95°-0°-95°
 Tangential travel 22.5 mm
 Weight 4.2 kgs

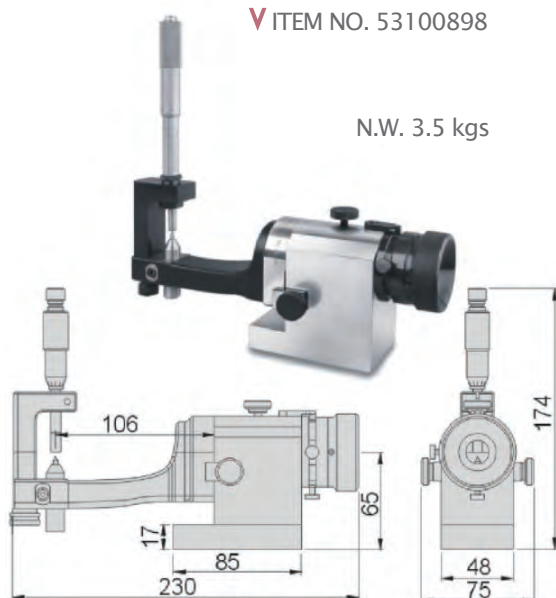


Grinding wheel dressing application



▼ ITEM NO. 53100898

N.W. 3.5 kgs



FEATURES:

- 53100898 is mainly applied on surface grinding machine and universal tool grinder.
- By "sighting" the diamond point through the lens, radius and angles can easily be made into various cross sections of flat or curved shapes.
- This model is compatible with various ER collets such as ER20, ER32, ER50, etc.

Main parameters:

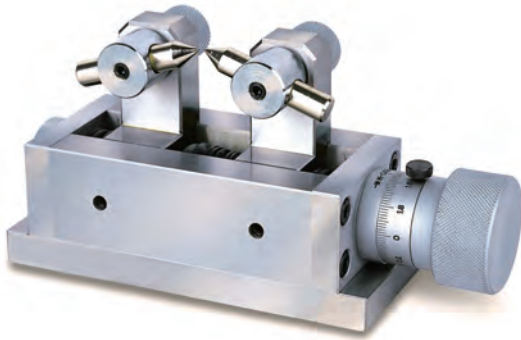
Center height 65 mm
 Max. wheel dia 205 mm
 Max. convex radius 10 mm
 Max. concave radius 25.4 mm
 Dressing angle 95°-0°-95°

Wheel Dressing Applications





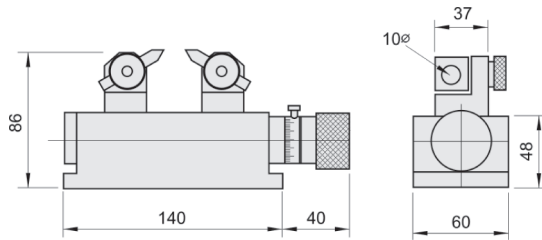
PRECISION DUPLEX DRESSER



▲ ITEM NO. 53100133

FEATURES:

Unit is designed to dress simultaneously both sides of a grinding wheel, precisely and without deflection.



SPECIFICATIONS:

Max. width of wheel..... 40 mm (1-9/16")
 Max. dressing depth 40 mm (1-9/16")
 Min. dressing width..... 0.02 mm (0.0079")
 Graduation..... 0.02 mm (0.001")
 Weight 3.5 kgs

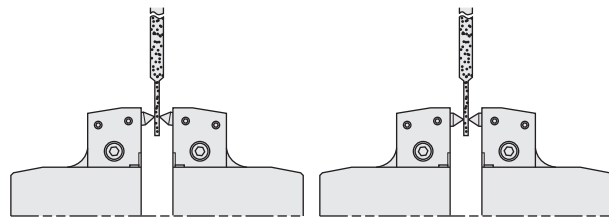
MAX. THICKNESS	MIN.	MAX.	MIN.
40 mm 	0.2 mm 	40 mm 	0.02 mm/ DIV



PRECISION DUST PROOF DUPLEX DRESSER



▲ ITEM NO. 53100135



TAPER DRESSING

PARALLEL DRESSING

- All slide ways are fully covered, preventing chips from falling into the unit.
- Wider slide ways for higher rigidity and accuracy.
- Dressing range 0.2 mm~15 mm.
- Graduation of dial: 0.01 mm (0.005").
- Weight: 3.8 kgs

MAX. THICKNESS	MIN.	MAX.	MIN.
15 mm 	0.2 mm 	15 mm 	0.01 mm/DIV



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

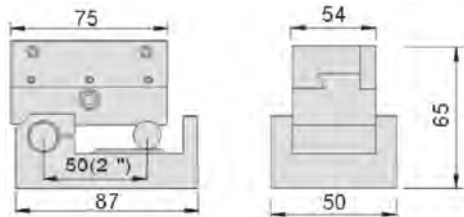


SINE DRESSER

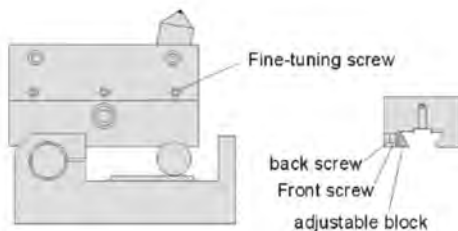
ITEM. 53100899



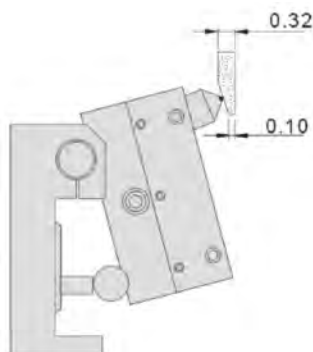
N.W. 14 kgs



53100899 has three screw holes for fine-tuning purpose. Each hole contains two screws, one at the front, the other one at the rear. When adjusting rear screw, push the front screw forward and make the wedge moves, and then move the slide until it works smoothly.



Before applying 53100899, check to see if the slide is tight or loose. If it is loose, simply lightly adjust fine-tuning screw until it is smooth. This tool is high precision and capable of dressing any angle.



FEATURES:

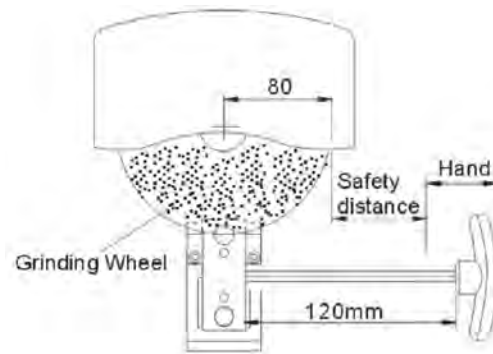
- 53100899 is gear driven and is designed for better prevention and protection for the beginner.
- Double axis center accuracy is $\pm 0.002\text{mm}$
- It has the same function as ITEM NO. 53100134

SPEC

Inch

Metric

Gear allows forward/ backward movement, and is installed with diamond pin on the slide. For safety purpose, hexagon wrench is applied with certain safety distance in order to support user to function AP50H and thus precisely dressing the demand angle.



53100899 has its own Patent and it basically the improved version of original type. Below is the comparison .

ITEM NO. 53100899



1. Applying gear driven
2. Safety distance when applying
3. Three fine-tuning screw at side
4. Easy to achieve precision dressing for any user

ITEM NO. 53100134



1. Applying manually
2. Close to wheel when applying
3. No fine-tuning function
4. Must have specialist to make precision dressing

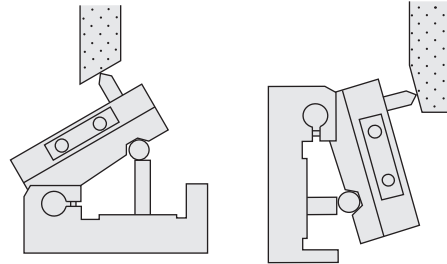
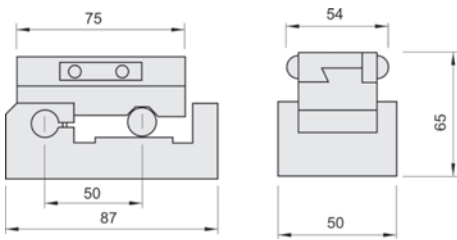


SINE DRESSER



- Easy set up for the desired angle with gauge block.
- It can be used both vertically or horizontally.
- Dressing angle 0°-60°.
- Remove top slide. It can be used as a sine bar.
- Rollers distance: 50 mm + 0.005 mm (2" + 0.0002").
- Please specify imperial or metric size when ordering.
- Weight: 1.5 kgs.

◀ ITEM NO. 53100134

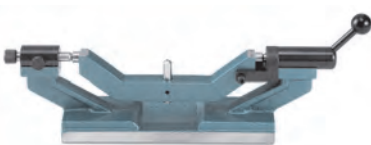
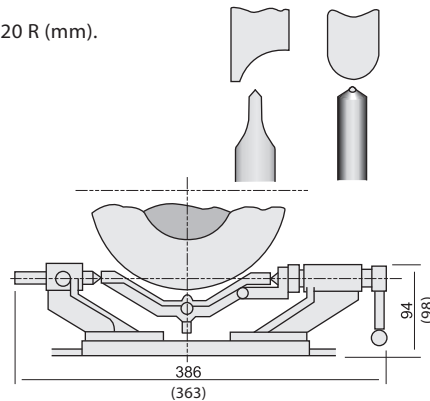


WHEEL DRESSERS

- It is easily and accurate operated by handle.
- It can dress the wheel for smaller convex or concave 0.2~12 / 0.2~20 R (mm).
- Max. grinding wheel diameter 8" (205 mm).



▲ ITEM NO. 53100136 (2.6 kgs)



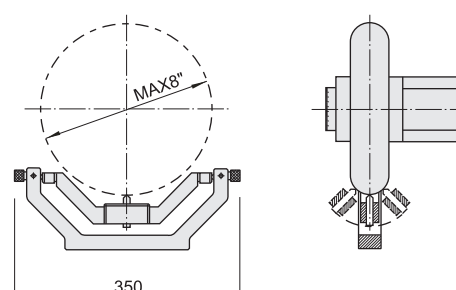
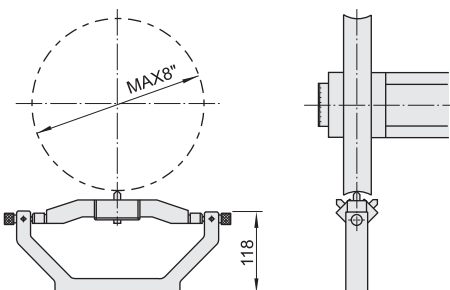
▲ ITEM NO. 53100669 (2.8 kgs)

0.2~12 / 0.2~20R (mm)

- For dressing grinding wheels in the form of convex and concave.
- Max. grinding wheel diameter 8" (205 mm).
- Capacity: convex 0.5-40 R (mm)
- Capacity: concave 0.5-90 R (mm)
- Weight: 6.2 kgs



▲ ITEM NO. 53100137



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

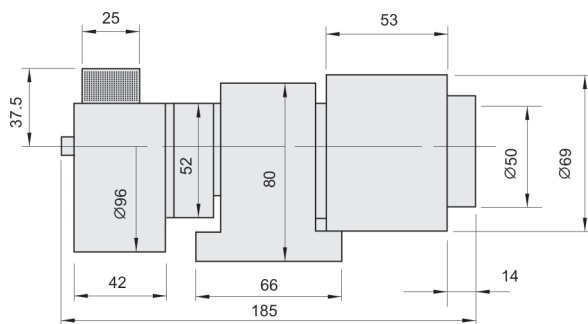


DIAMOND & CBM WHEEL DRESSER– FOR DRESSING THE FLATNESS OF WHEEL



▲ ITEM NO. 53100138

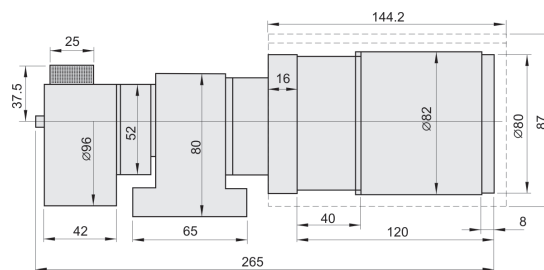
- This operation focus in turning the active part of the wheel in order to provide a regular and continuous contact between the rotating wheel and the piece to be worked.
- The brake turning device is designed for turning cup and peripheral wheels on machines with a vertical or horizontal spindle. Its robustness and handiness make it an indispensable device for precision work.
- Emery wheel 75 x 25 x 12.7 mm
- Weight: 4.5 kgs



MOTORISED DIAMOND & CBN WHEELDRESSER– FOR DRESSING THE FLATNESS OF WHEEL



- Same applications as item no.53100138
- Wheel speeds 120 RPM/60HZ
100 RPM/50HZ
- Motor available in 1PH, 110V or 220V
- Weight: 6.5 kgs



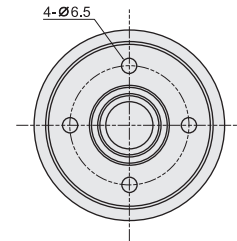
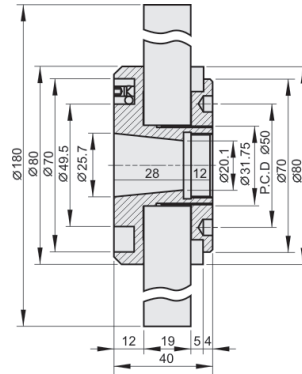
ITEM NO.	VOLTAGE
53100139	110V 1PHASE
53100140	220V 1PHASE



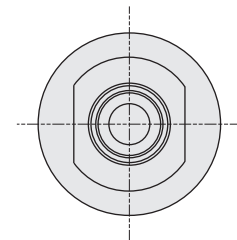
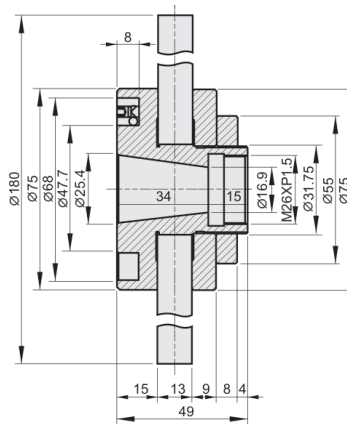
FLANGES FOR GRINDING WHEELS (SURFACE GRINDERS)



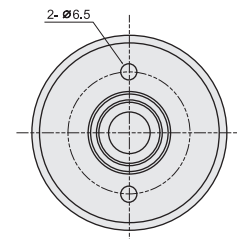
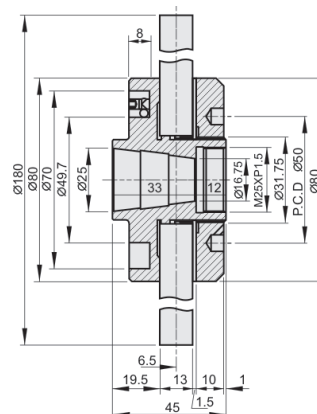
▲ ITEM NO. 53100141
(KENT)



▲ ITEM NO. 53100142
(TATUNG - OKUMA)



▲ ITEM NO. 53100143
(USA)



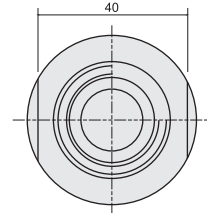
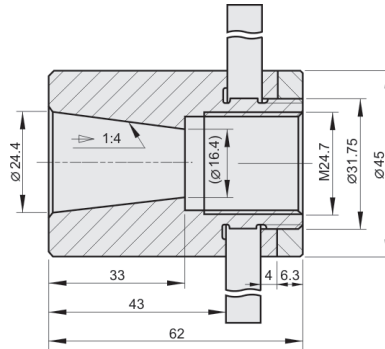
C3 - DRESSERS, FLANGES

TOOLS FOR GRINDING MACHINES / WIRE EDM

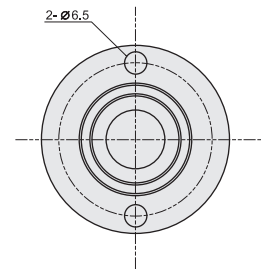
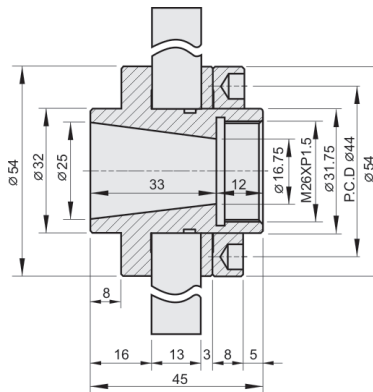
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



FLANGES FOR GRINDING WHEELS (SURFACE GRINDERS)

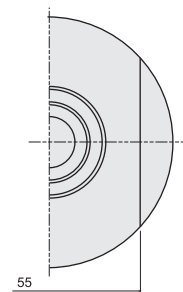
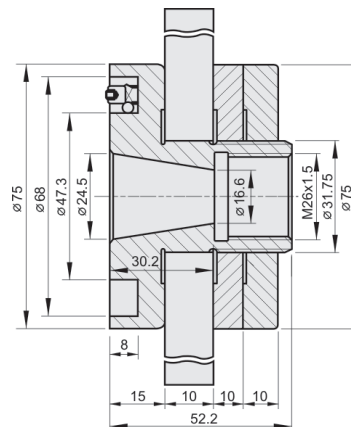


▲ ITEM NO. 53100144
(614/618)



▲ ITEM NO. 53100145

For OKAMOTO ACC-52DX surface grinder.



▲ ITEM NO. 53100146

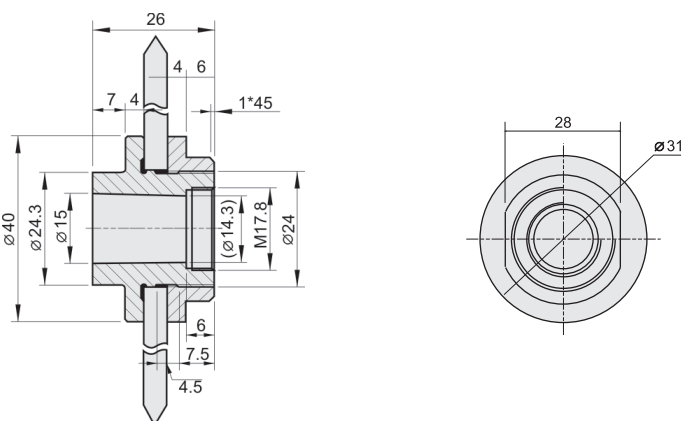


FLANGES FOR GRINDING WHEELS (SURFACE GRINDERS)

For WAIDA® optical surface grinder.



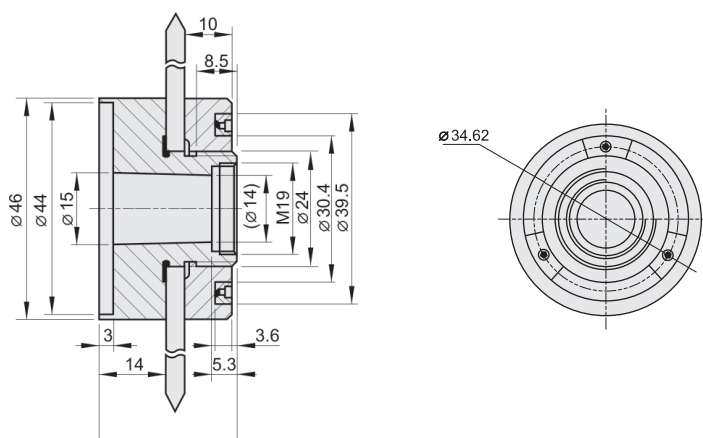
▲ ITEM NO. 53100147
(WAIDA)



For WAIDA® optical surface grinder.



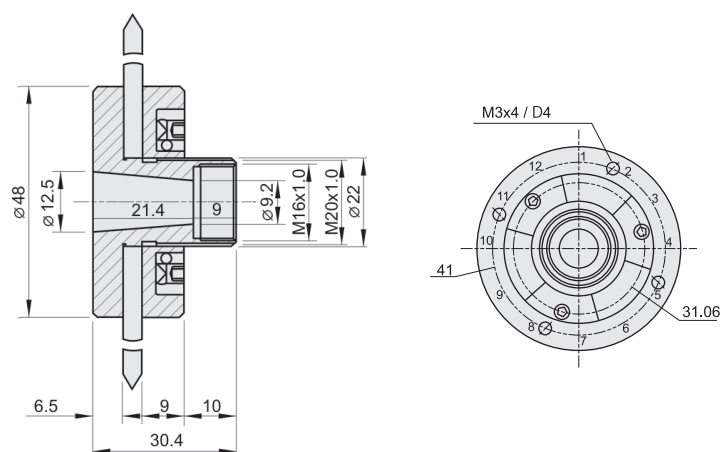
▲ ITEM NO. 53100148
(WAIDA)



For PETEWE® optical surface grinder.



▲ ITEM NO. 53100149
(Pe Te We)

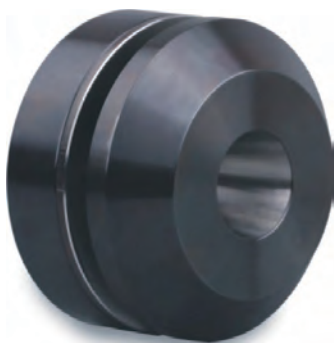


C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



FLANGES FOR GRINDING WHEELS (SURFACE GRINDERS)

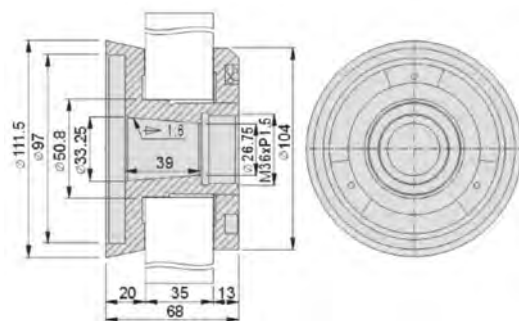
✓ ITEM NO. 53100900



N.W. 1.1 kgs

FEATURES:

- Suitable for applying on WASINO Grinders.



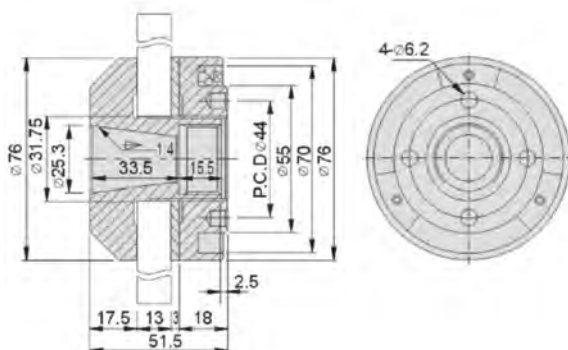
✓ ITEM NO. 53100901



N.W. 1.95 kgs

FEATURES:

- Suitable for OKAMOTO ACC-52DX Grinders.



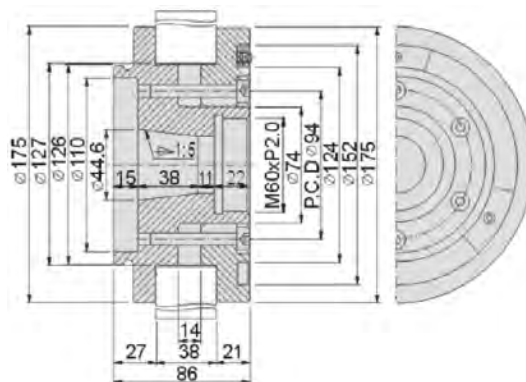
✓ ITEM NO. 53100902



N.W. 2.2 kgs

FEATURES:

- Suitable for OKAMOTO ACC-63DX, TATUNG PSG-64 Grinders.





FLANGES FOR GRINDING WHEELS (SURFACE GRINDERS)

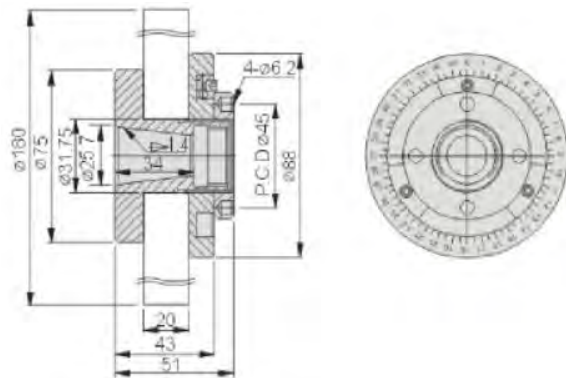
✓ ITEM NO. 53100903



N.W. 1 kg

FEATURES:

- Laser mark graduation reading on plates.
- Suitable for TATUNG EN350 Grinders.



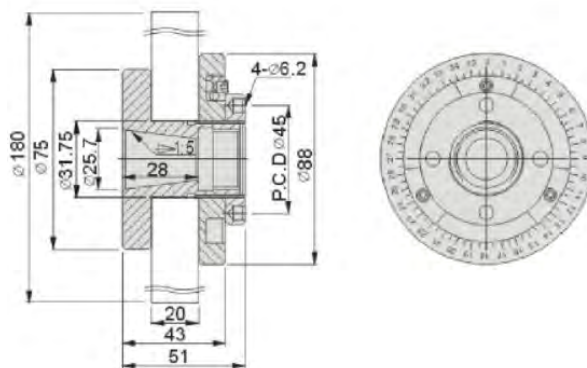
✓ ITEM NO. 53100904



N.W. 1 kg

FEATURES:

- Laser mark graduation reading on plates.
- Suitable for KENT EN250 Grinders.



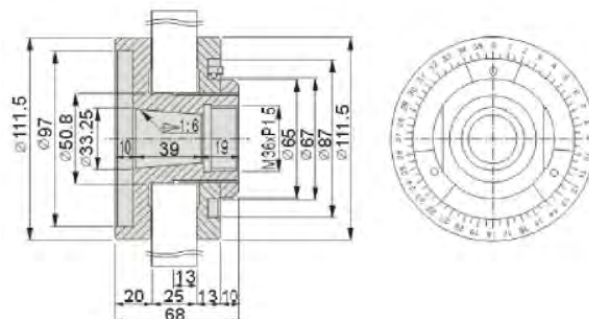
✓ ITEM NO. 53100905



N.W. 2.2 kgs

FEATURES:

- Laser mark graduation reading on plates.
- Suitable for OKAMOTO ACC-52DX Grinders.



C3 - DRESSERS, FLANGES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



FLANGES FOR GRINDING WHEELS (OPTICAL SURFACE GRINDERS)

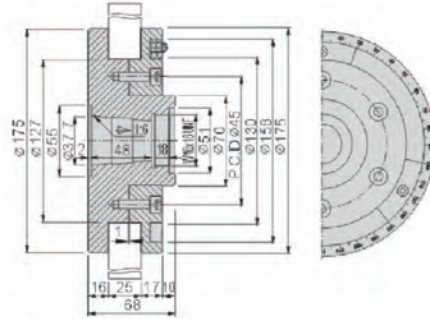
✓ ITEM NO. 53100906



N.W. 8 kgs

FEATURES:

- Laser mark graduation reading on plates.
- Suitable for KENT 410 Grinders.



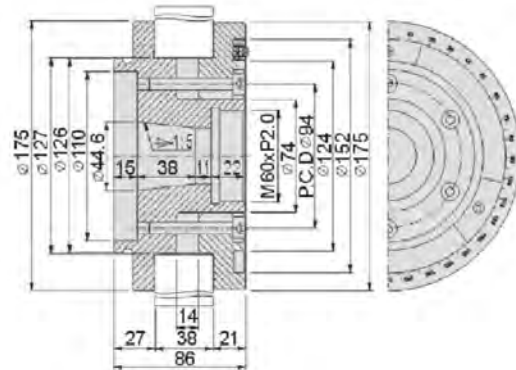
✓ ITEM NO.53100907



N.W. 8 kgs

FEATURES:

- Laser mark graduation reading on plates.
- Suitable for OKAMOTO ACC-63DX, TATUNG PSG-64 Grinders.

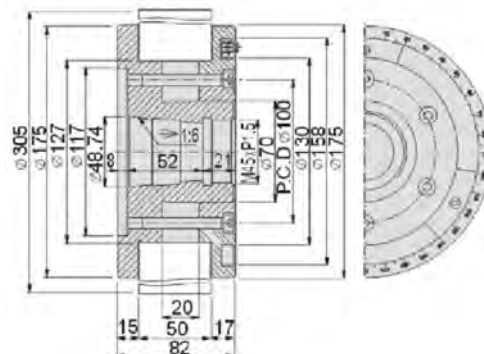


✓ ITEM NO. 53100908



FEATURES:

- Laser mark graduation reading on plates.
- Suitable for KENT 515 3rd generation Grinders.





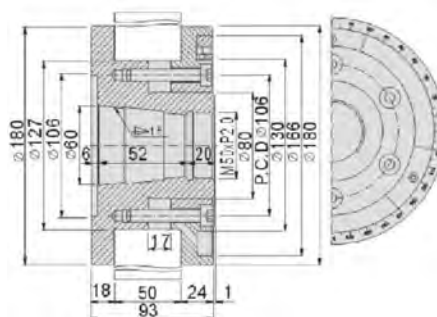
FLANGES FOR GRINDING WHEELS (OPTICAL SURFACE GRINDERS)

✓ ITEM NO. 53100909



FEATURES:

- Laser mark graduation reading on plates.
- Suitable for CHEVALIER 0701 Grinders.

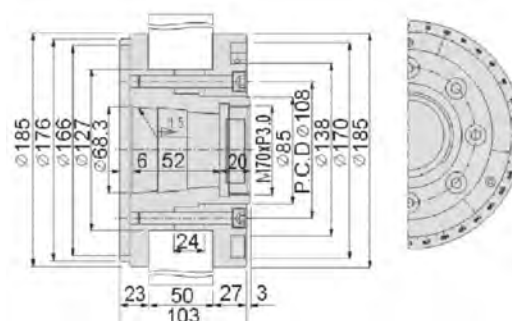


✓ ITEM NO. 53100910



FEATURES:

- Laser mark graduation reading on plates.
- Suitable for KENT 816 Grinders.

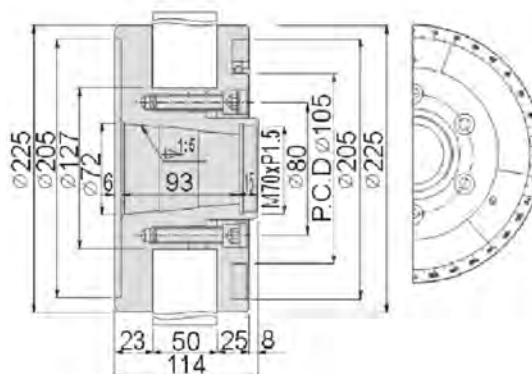


✓ ITEM NO. 53100911



FEATURES:

- Laser mark graduation reading on plates.
- Suitable for large OKAMOTO Grinders.



C3 - DRESSERS, FLANGES

TOOLS FOR GRINDING MACHINES / WIRE EDM

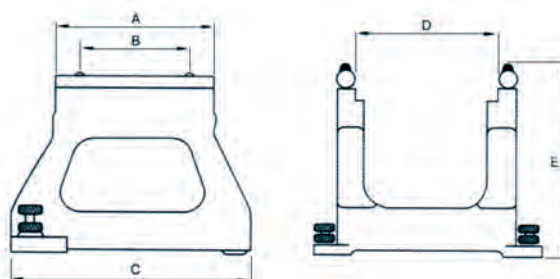
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



WHEEL BALANING STANDS (LEVEL TYPE)

FEATURE:

- Unit includes a level indicator and using 3 screws of the base to adjust the level.
- Sliding rods are hardened & ground.
- Max. applicable grinding wheel diameter 8" (205 mm) & 14" (350 mm)



UNIT: mm

ITEM NO.	WHEEL DIA	A	B	C	D	E	N. W.
53100150	8"	155	130	226	115	185	4 kgs
53100151	14"	180	150	260	125	241	5.5 kgs



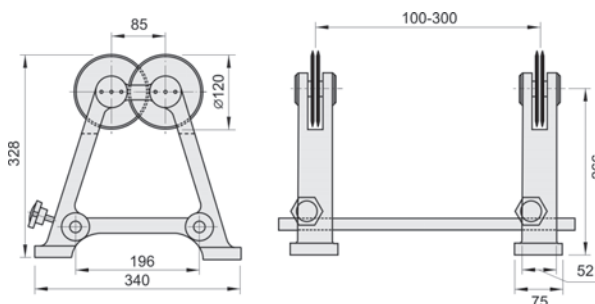
WHEEL BALANING STAND (LEVEL TYPE)



▲ ITEM NO. 53100152

FEATURES:

- Unit adopts 4 intersected rollers to move the wheel.
- Roller surface is HRC 56°~ 58°
- Roller stand can be adjusted from 100-300 mm.
- Max. applicable grinding wheel diameter 508 mm (20").



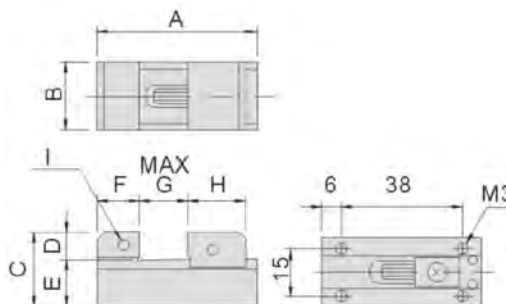


MINI TOOLMAKERS VISES (STAINLESS STEEL)

- Material: SUS440
- Hardness: HRC48°~55°

- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.003 mm / 100 mm

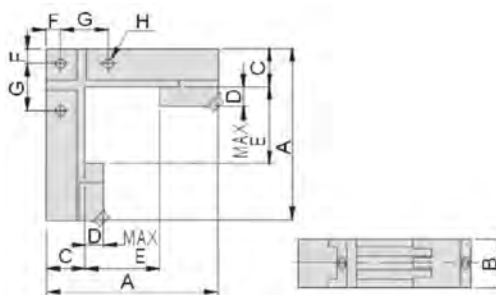
- A delicate vise, suitable for clamping precision workpiece.



UNIT: mm

SPEC / ITEM NO.	53100912
A	50
B	21
C	23.5
D	8.5
E	15
F	13
G	15
H	18
I	M3
N.W.	0.15 kg

- Two way clamping and suitable for applying EDM machine



UNIT: mm

SPEC / ITEM NO.	53100913
A	90
B	25
C	20
D	10
E	40
F	7.5
G	25
H	M5
N.W.	0.5 kg

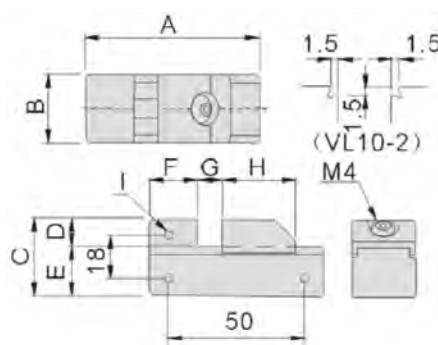
- Compact version precision vise, suitable for small precision workpiece, and applied by wrench.
- 53100173 has step groove on jaws.



▲ ITEM NO.
53100173-1



▲ ITEM NO.
53100173



UNIT: mm

SPEC / ITEM NO.	53100173-1	53100173
A	65	65
B	25	25
C	32	32
D	12	12
E	20	20
F	20	20
G	20	20
H	25	25
I	M4	M4
N.W.	0.25 kg	0.25 kg



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

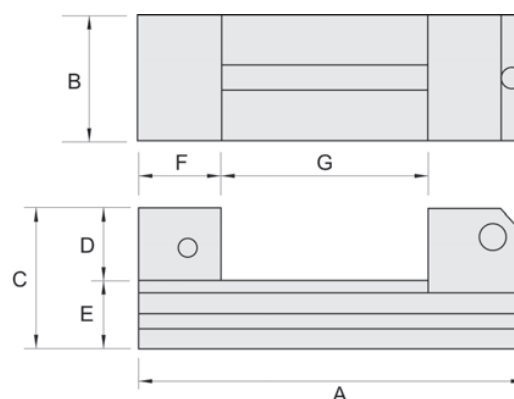
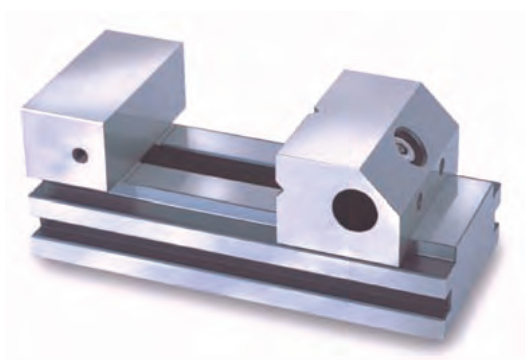
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MINI TOOLMAKERS VISES (STAINLESS STEEL)

- Sub-zero treatment after heat treatment for material stabilization.
- All stainless steel including screws, SUS440.

- Parallelism: within 0.003 mm / 100 mm.
- Squareness: within 0.003 mm / 100 mm.
- Hardness HRC50°~ 55°

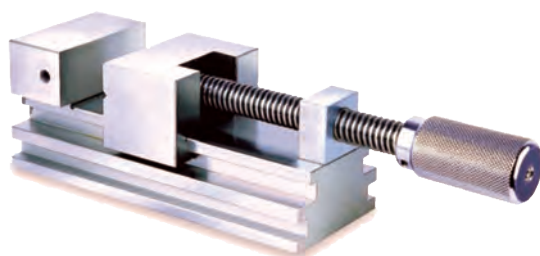


UNIT: mm

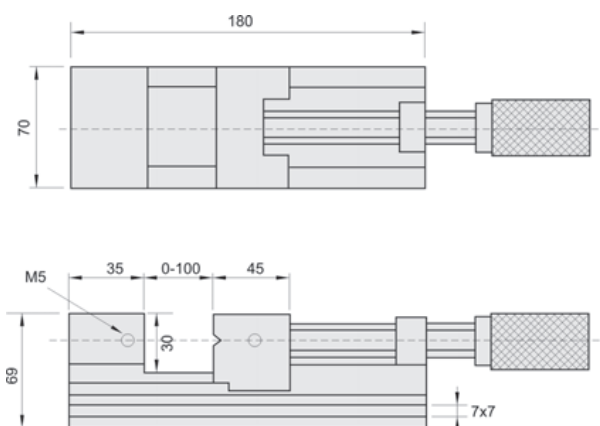
ITEM NO.	A	B	C	D	E	F	G	N.W.
53100176	140	50	50	25	28	25	0-75	1.8 kgs
53100177	180	73	62	30	33	35	0-100	3.8 kgs

- All stainless steel including screws, SUS440.
- Parallelism: within 0.003 mm / 100 mm.
- Squareness: within 0.005 mm / 100 mm.
- Hardness HRC50°~ 55°

- Jaw width: 70 mm.
- Jaw opening: 100 mm.
- Jaw depth: 30 mm.
- Weight: 5.0 kgs.



▲ ITEM NO. 53100178



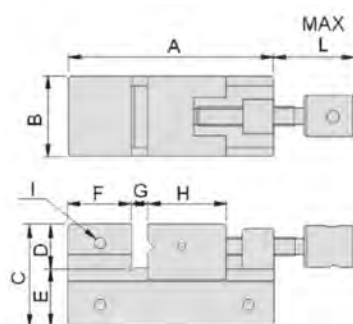


MINI TOOLMAKERS VISES (STAINLESS STEEL)

- Material: SUS440
- Hardness: HRC48°~55°

- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.003 mm / 100 mm

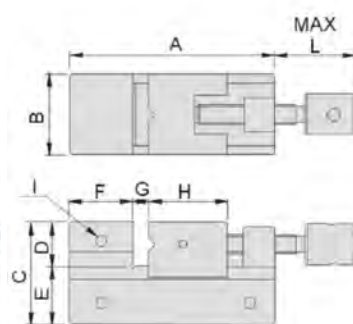
- Screw rod design to lock tight, suitable for clamping small workpiece.



UNIT: mm

SPEC / ITEM NO.	53100914
A	70
B	25
C	32
D	14
E	18
F	20
G	0~25
H	25
I	M4
L	43
N.W.	0.5 kg

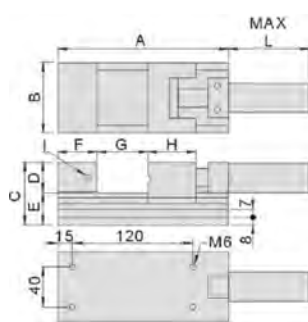
- Screw rod design to lock tight, suitable for clamping small workpiece.



UNIT: mm

SPEC / ITEM NO.	53100915
A	100
B	36
C	35
D	16.5
E	18.5
F	20
G	0~50
H	30
I	M5
L	76.5
N.W.	1.0 kg

- Compact structure, suitable for high precision processing work.



UNIT: mm

SPEC / ITEM NO.	53100916
A	170
B	70
C	62
D	30
E	32
F	40
G	0~80
H	45
I	M6
L	82
N.W.	4.2 kgs



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

MINI TOOLMAKERS VISES (STAINLESS STEEL)

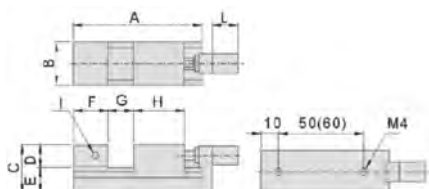
- Material: SUS440
- Hardness: HRC48°~55°

- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.003 mm / 100 mm

- Screw rod design to lock tight, suitable for clamping small precision workpiece.



ITEM NO. 53100917~8



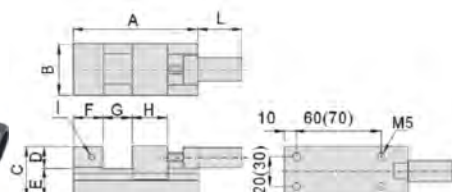
UNIT: mm

SPEC / ITEM NO.	53100917	53100918
A	75	95
B	25	30
C	28	35
D	13	15
E	15	20
F	20	20
G	0~20	0~20
H	30	40
I	M4	M4
L	20	20
N.W.	0.27 kg	0.65 kg

- Screw rod design to lock tight, suitable for clamping small precision workpiece.



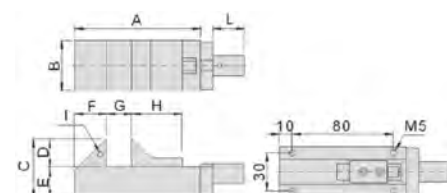
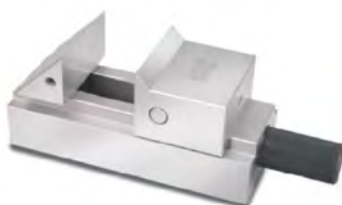
ITEM NO. 53100919~20



UNIT: mm

SPEC / ITEM NO.	53100919	53100920
A	95	110
B	35	45
C	35	45
D	15	20
E	20	25
F	20	25
G	0~40	0~50
H	24	24
I	M5	M5
L	45	55
N.W.	0.9kg	1.6 kgs

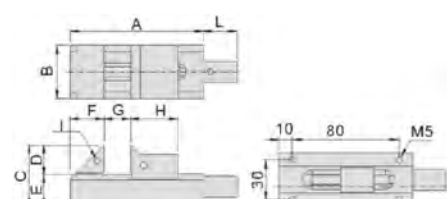
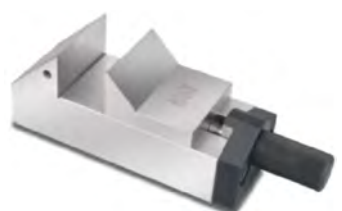
- Screw rod design to lock tight and has compact structure, suitable for clamping small workpiece to precision processing / grinding, especially on 5-axis machine center.



UNIT: mm

SPEC / ITEM NO.	53100921
A	100
B	40
C	47
D	22
E	25
F	25
G	30
H	35
I	M4
L	31.5
N.W.	0.90 kg

- Screw rod design to lock tight and has compact structure, suitable for clamping small workpiece to precision processing / grinding, especially on 5-axis machine center.



UNIT: mm

SPEC / ITEM NO.	53100922
A	100
B	40
C	47
D	22
E	25
F	25
G	30
H	40
I	M4
L	30
N.W.	0.93 kg



MINI TOOLMAKERS VISES (STAINLESS STEEL)

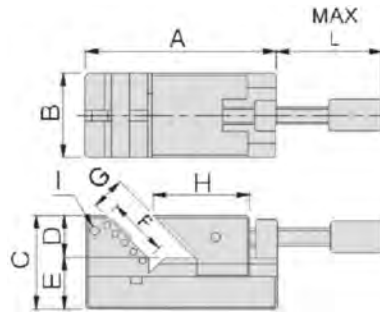
- Material: SUS440
- Hardness: HRC48~55°

- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.003 mm / 100 mm

- 45° angle design for the jaw standard for equipment for precision and small workpiece which needs to form 45° angle.
- Standard equipment for adjusting work height position.



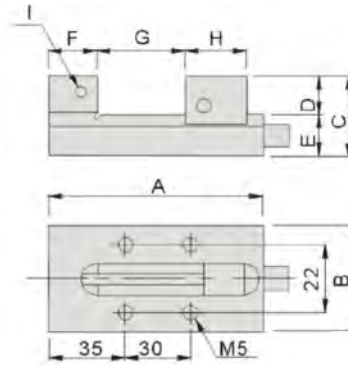
V ITEM NO. 53100923~4



UNIT: mm

SPEC / ITEM NO.	53100923	53100924
A	62	90
B	30	50
C	37	44
D	15	20
E	22	24
F	21	33.9
G	0~11	26
H	37.5	45.4
I	M4	M4
L	33.5	65
N.W.	0.5 kg	0.7 kg

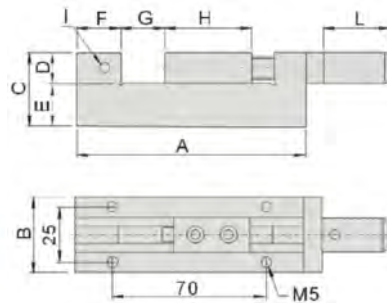
- This vise has compact structure vise with special design to prevent any floating of workpiece when clamped.



UNIT: mm

SPEC / ITEM NO.	53100925
A	100
B	40
C	40
D	15
E	25
F	25
G	0~40
H	25
I	M4
N.W.	1.0 kg

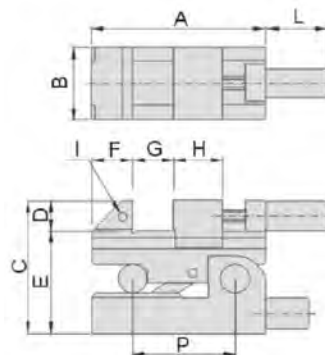
- This vise is adopting new structure and easier operation with higher accuracy and stability.



UNIT: mm

SPEC / ITEM NO.	53100926
A	105
B	35
C	35
D	15
E	20
F	20
G	0~30
H	40
I	M4
L	30
N.W.	1.1 kgs

- Precision sine vise, suitable for precision and small workpiece as well as EDM work.



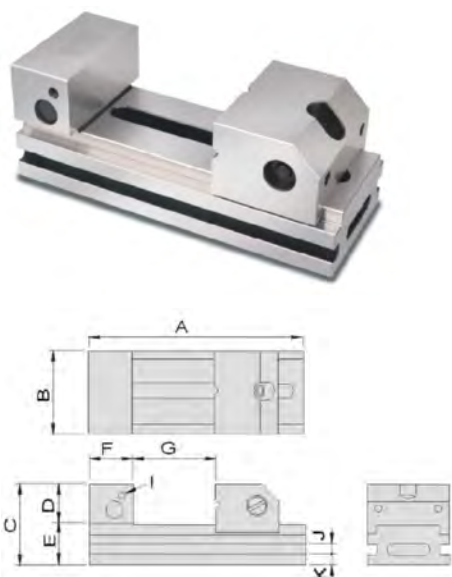
UNIT: mm

SPEC / ITEM NO.	53100927
A	85
B	35
C	65
D	15
E	50
F	20
G	0~30
H	24
I	M4
L	37
P	50
N.W.	1.0 kg



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

SUPER PRECISION TOOL MAKER VISES



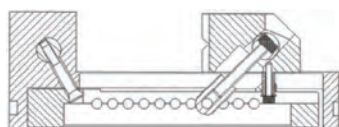
FEATURES:

- This vise is made of high quality alloy tool steel (SKS3).
- Special design to prevent distortion during clamping ensuring the accuracy for work processing on workpieces.
- With quick adjust spring function, clamping jaw can move and position easily.
- Material: SKS3
- Hardness: HRC58°~ 60°
- Sub-zero treatment: -185°C
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.004 mm / 100 mm

UNIT: mm

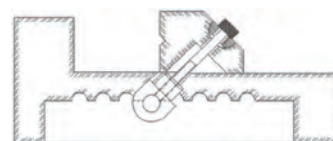
ITEM NO.	A	B	C	D	E	F	G	I	J	K	N.W.
53100928	150	48	53	25	28	25	0-70	M5	6	8.5	1.7 kgs
53100929	190	73	70	35	35	38	0-100	M6	8	9.5	4.5 kgs
53100930	230	98	80	40	40	46	0-125	M6	10	10	8.4 kgs
53100931	300	125	98	48	50	60	0-160	M8	12	13	17.4 kgs
53100932	350	150	100	50	50	60	0-210	M8	12	13	22.7 kgs

■ Newly improved tool maker vise before clamping operation.



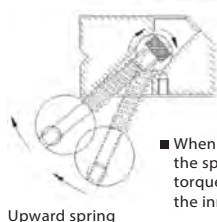
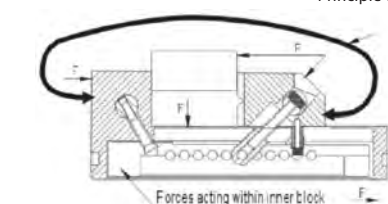
Improved tool maker vise, Inner block faces force when clamping, and no twist or distortion is exised, achieving higher accuracy and stability.

■ Newly improved tool maker vise before clamping operation.

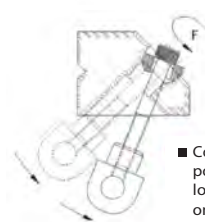
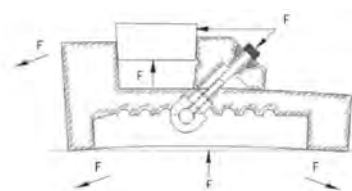


■ Conventional vise has distortion or twist when clamping workpiece and thus leads to poor accuracy.

Principle of anti-distortion



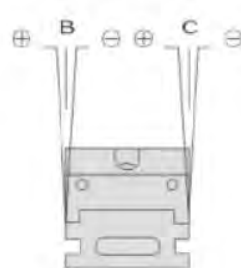
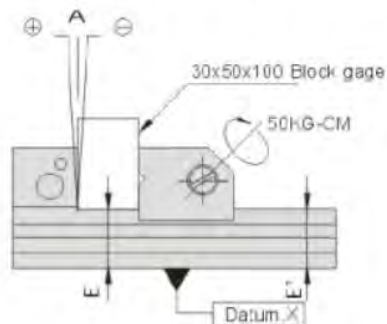
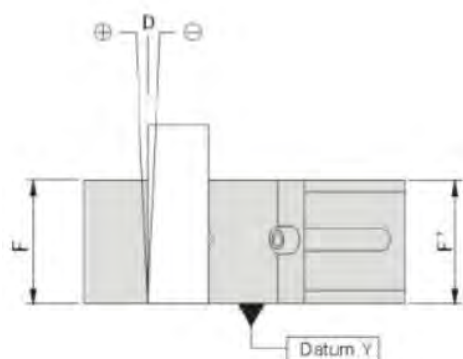
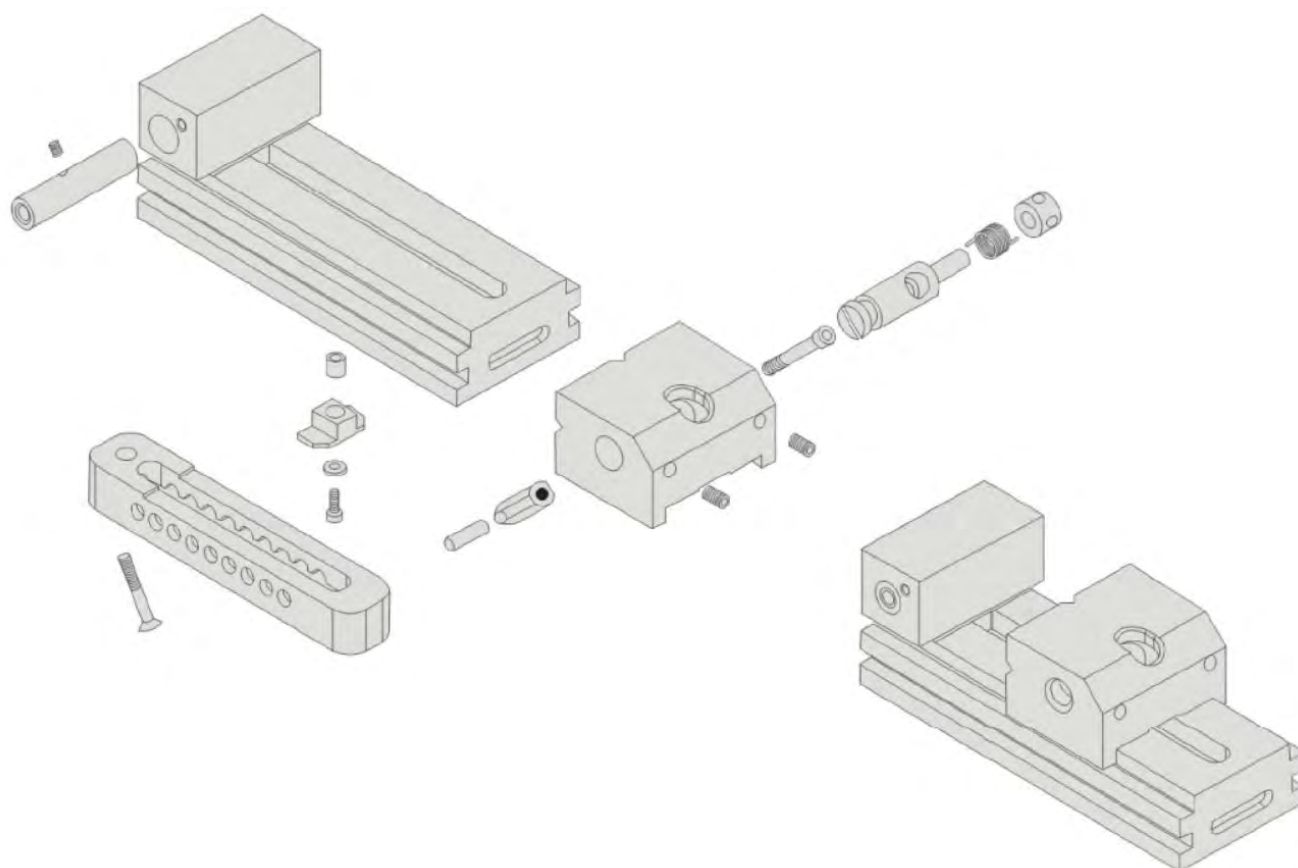
■ When the fixed pin faces the pressure from the spring, it generates upward twisting torque and pushes the screw to match with the inner block.



■ Conventional vise needs to position the fix pin when you loosen the screw. It all depends on manual work.



SUPER PRECISION TOOL MAKER VISES



UNIT: μm

POSITION	INSPECTION DESCRIPTION	TOLERANCE
A	Perpendicular to Datum X	± 4
B	Perpendicular to Datum X	± 4
C	Perpendicular to Datum X	± 4
D	Perpendicular to Datum Y	± 4
E	Perpendicular to Datum X	± 3
F	Perpendicular to Datum Y	± 3



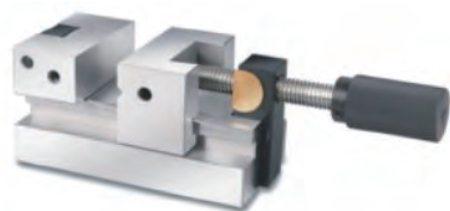
C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

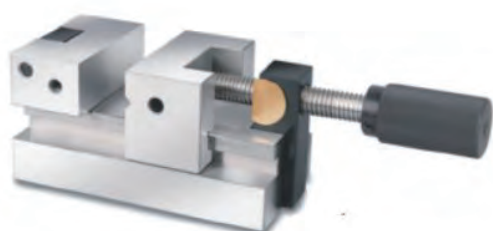
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



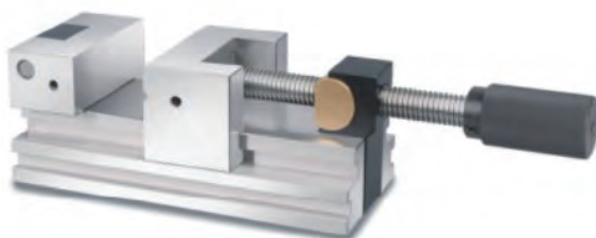
TOOL MAKER VISES



▲ ITEM NO. 53100933



▲ ITEM NO. 53100934

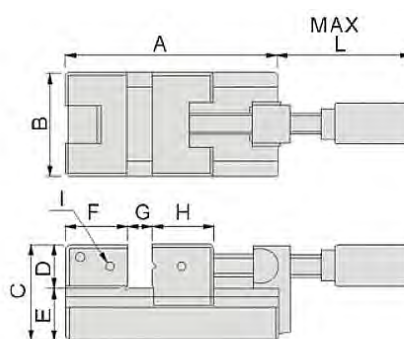


▲ ITEM NO. 53100935

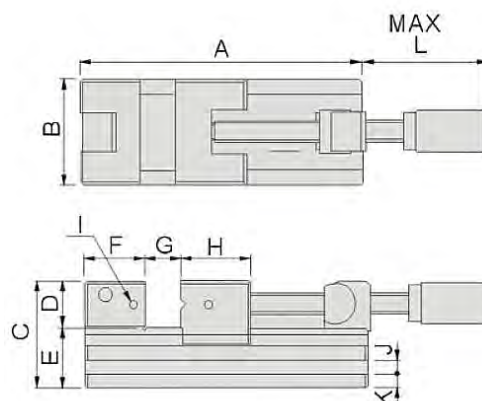
Material: SUS440
Hardness: HRC56°~60°
Parallelism: within 0.003 mm / 100 mm
Squareness: within 0.003 mm / 100 mm

FEATURES:

- Made of high quality alloy tool steel (SKS3) and tempering & sub-zero treatment.
- Anti-distortion design with screw rod function to lock, suitable for applying on precision processing work.



▲ ITEM NO. 53100933~4



▲ ITEM NO. 53100935

UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	H	I	L	N.W.
53100933	122	60	60	25	35	35	0-47	40	M6	105	2.5 kgs
53100934	172	70	70	30	40	40	0-80	45	M6	149.5	4.7 kgs

UNIT: mm

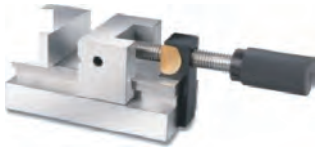
ITEM NO.	A	B	C	D	E	F	G	H	I	j(WxD)	K	L	N.W.
53100935	237	90	90	40	50	50	0~125	50	M6	10x7	10	201	10.3 kgs



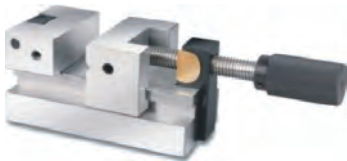
ANTI-DISTORTION

53100933~5 are all adopting inbuilt anti-distortion

Comparison



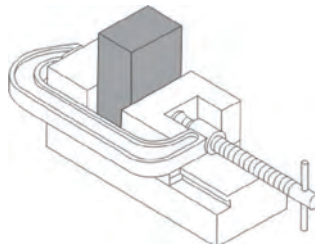
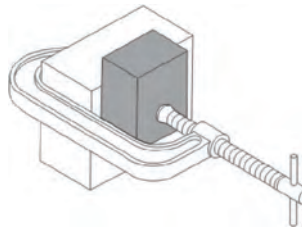
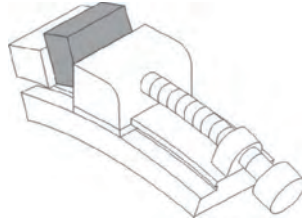
▲ ITEM NO. 53100933



▲ ITEM NO. 53100934



▲ ITEM NO. 53100935

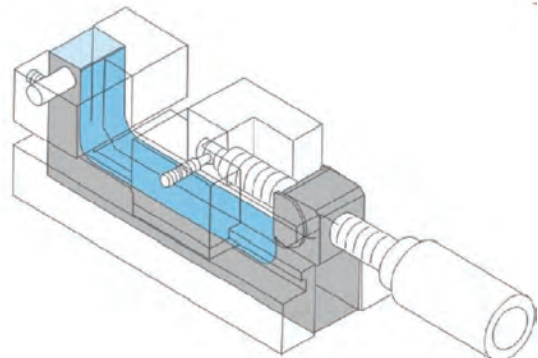
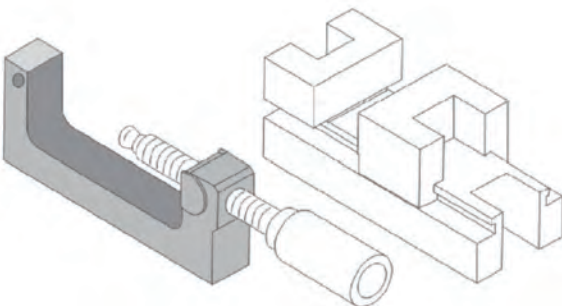


General tool maker vise will distort from clamping stress and thus impede the precision processing.

Applying fixture block is essential for high precision processing. However, it is not cost effective.

Applying fixture block and the vise, it achieves cost effective and high precision processing.

Making inbuilt fixture into vise, and it helps the precision processing since the distortion stress will react on fixture. Thus, no distortion will influence the parallelism and perpendicularity.



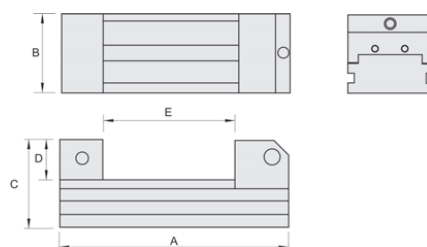
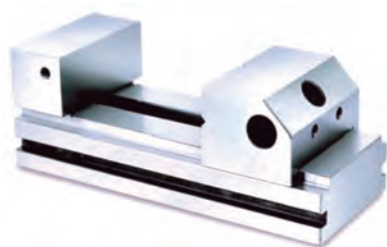
C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



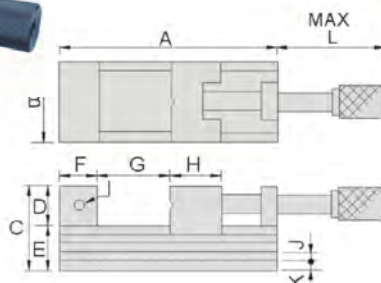
SUPER PRECISION TOOLMAKERS VISES



UNIT: mm

- Material : Tool steel, SKS 30
- Hardness: HRC58° ~ 62°
- Sub-zero treatment -90°C ~ -100°C
- Squareness & Parallelism: within 0.002 mm / 100 mm

ITEM NO.	A	B	C	D	E	N.W.
53100671	75	34	35	15	0-25	0.38 kg
53100672	110	45	45	20	0-50	1.0 kg
53100191	160	70	62	30	0-80	3.3 kgs
53100192	210	90	80	40	0-120	6.7 kgs
53100673	286	120	90	40	0-150	16.8 kgs



FEATURES:

- A type super precision tool maker vise has complete specifications with handle screw bar design. Hex wrench can be applied to lock tighter.
- Precision screw bar and screw nut ensure the lasting durability. Every part is precision ground square and parallel.
- Single side oblique angle design can automatically mend the distortion from the body
- Material : SK2
- Hardness : HRC56° ~ 58°
- Parallelism : within 0.003 mm / 100 mm
- Squareness : within 0.004 mm / 100 mm

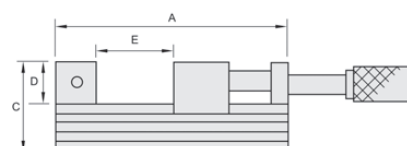
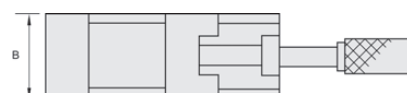
UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	N.W.
53100936	140	48	55	25	30	25	0-75	40	M6	-	-	117	2.3 kgs
53100937	160	63	69	30	39	30	0-85	45	M6	8	9	129	3.8 kgs
53100938	180	73	78	35	43	35	0-95	50	M6	8	10	132	6.0 kgs
53100939	230	98	92	45	47	45	0-120	50	M8	10	11	172	11.3 kgs



< ITEM NO. 53100193

V ITEM NO. 53100194



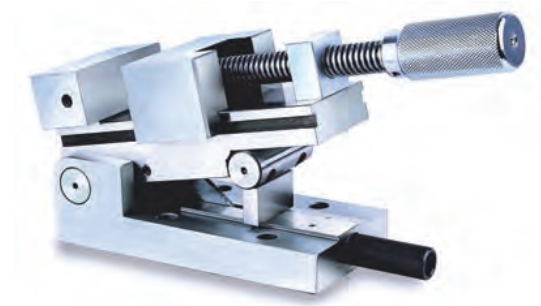
UNIT: mm

- Material : Tool steel, SKS 3
- Hardness: HRC60°
- Sub-zero treatment -90°C ~ -100°C
- Squareness & Parallelism: within 0.002 mm / 100 mm

ITEM NO.	A	B	C	D	E	N.W.
53100193	90	60	50	25	0-30	1.7 kgs
53100194	160	70	62	30	0-80	4.52 kgs
53100670	210	90	80	40	0-120	8.4 kgs



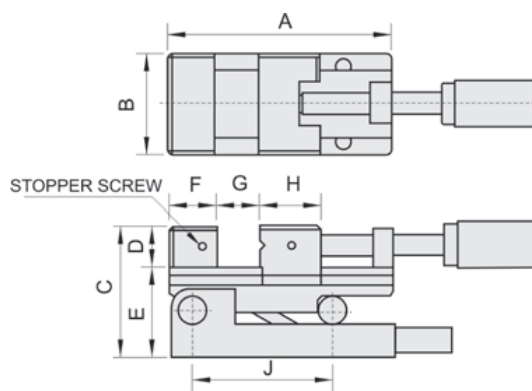
PRECISION SINE VISES



- Ideal for surface grinders, tool room milling machines.
- By using gauge block to set up the angle required.

ACCURACY:

- Material, Hardness: SKS, HRC58°~62°, Sub-zero treatment.
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm
- Angle accuracy: within 15 secs



UNIT: mm

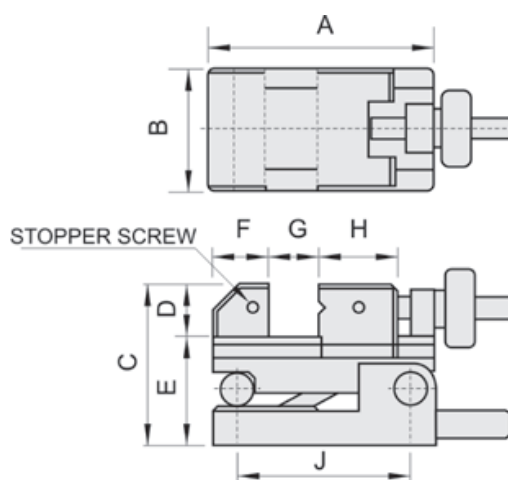
ITEM NO.	A	B	C	D	E	F	G	H	I	J	MAX. ANGLE	N. W.
53100195	160	73	93	30	63	33	80	45	M6	100	46°	6.8 kgs



- Ideal for surface grinders, tool room milling machines.
- By using gauge block to set up the angle required.

ACCURACY:

- Material, Hardness: SKS, HRC60°, Sub-zero treatment
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm
- Angle accuracy: within 15 secs



UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	H	I	J	MAX. ANGLE	N. W.
53100196	130	73	93	30	63	33	45	45	M5	100	46°	6 kgs



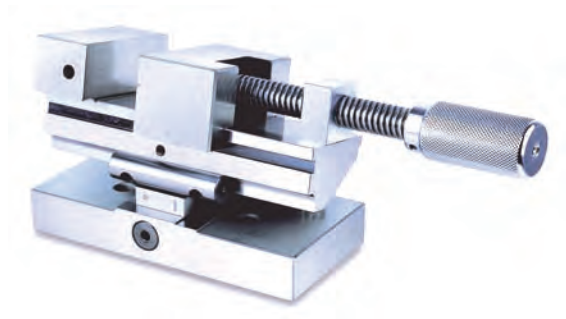
C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



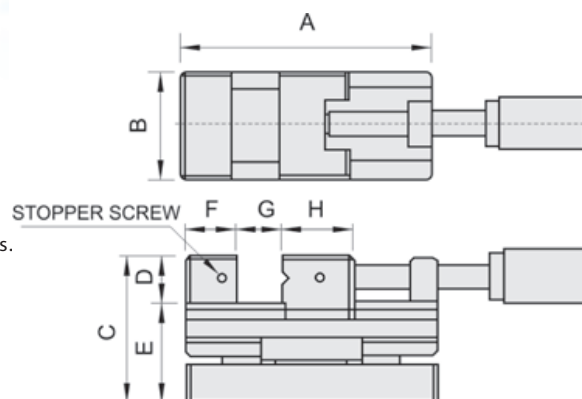
PRECISION SINE VISES



- Ideal for surface grinders, tool room milling machines.
- By using gauge block to set up the angle required.

ACCURACY:

- Material, Hardness: SKS, HRC60°, Sub-zero treatment
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm
- Angle accuracy: within 15 secs



UNIT: mm

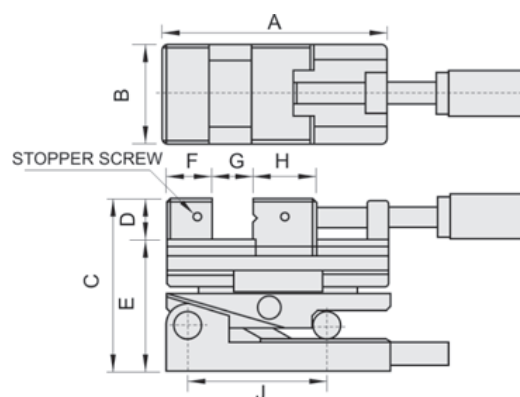
ITEM NO.	A	B	C	D	E	F	G	H	I	MAX. ANGLE	N. W.
53100197	160	73	93	30	63	33	80	45	M5	46°	6.5 kgs



- Ideal for surface grinders, tool room milling machines.
- By using gauge block to set up the angle required.

ACCURACY:

- Material, Hardness: SKS, HRC 60°, Sub-zero treatment
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm
- Angle accuracy: within 20 secs



UNIT: mm

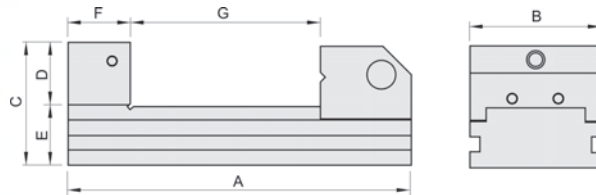
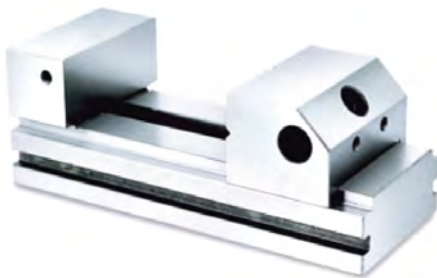
ITEM NO.	A	B	C	D	E	F	G	H	I	J	MAX. ANGLE	N. W.
53100198	160	73	124	30	94	33	80	45	M5	100	46°	8.8 kgs



TOOL MAKERS VISES



- Material: Tool steel, YK30
- Hardness: HRC58°
- Squareness & Parallelism: within 0.005 mm / 100 mm
- Locking design of movable jaw makes it easy for adjustment.



UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	N. W.
53100186	105	36	48	20	28	20	0-45	1 kg
53100187	150	48	53	25	28	25	0-75	2 kgs
53100188	176	63	59	30	29	30	0-95	3.3 kgs
53100189	190	73	68	35	33	35	0-105	4.3 kgs
53100190	245	98	90	45	45	45	0-135	10 kgs

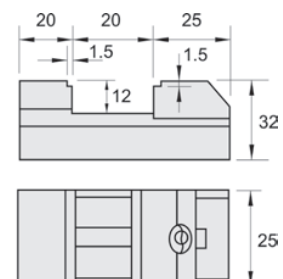
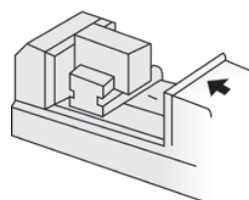


MINI TOOL MAKERS VISE



▲ ITEM NO. 53100200

- Material: Tool steel SK2
- Hardness: HRC56° - 58°
- Jaw width: 25 mm
- Jaw opening: 20 mm
- Jaw depth: 10 mm
- Squareness & Parallelism: 0.003 mm / 100 mm



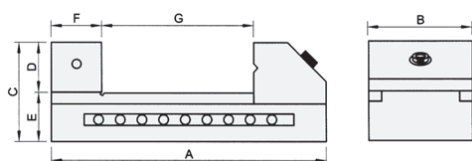
C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



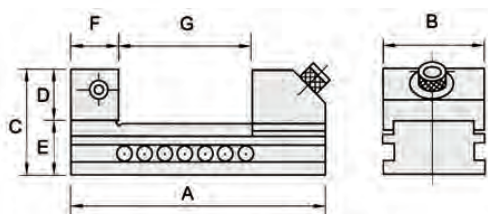
TOOL MAKERS VISES



- Material: Tool steel, SK2
- Hardness: HRC56°- 58°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

UNIT: mm

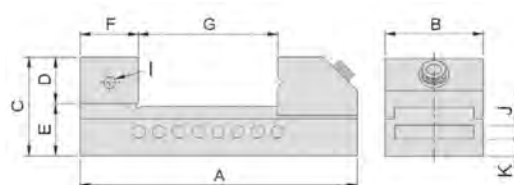
ITEM NO.	A	B	C	D	E	F	G	N.W.
53100202	100	36	48	20	28	25	0-40	1 kg
53100203	150	50	50	25	28	30	0-80	1.8 kgs
53100204	175	63	63	32	31	35	0-90	3.3 kgs
53100205	190	73	70	35	35	35	0-100	4.3 kgs
53100206	235	88	80	40	40	40	0-130	7.5 kgs
53100207	245	100	90	45	45	45	0-130	10 kgs



- Material: Tool steel, SK2
- Hardness: Hardness: HRC56°- 58°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	N.W.
53100209	330	150	100	50	50	50	0-180	20 kgs



- Material: Tool steel
- Hardness: HRC52°~58°
- Parallelism: within 0.005 mm / 100 mm
- Squareness: within 0.008 mm / 100 mm

UNIT: mm

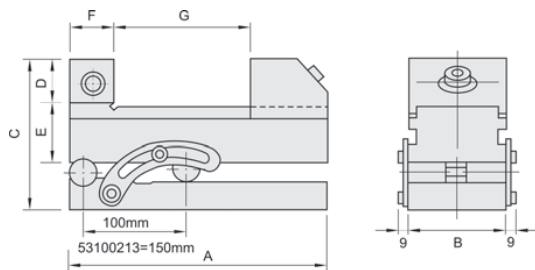
ITEM NO.	A	B	C	D	E	F	G	I	J	K	N.W.
53100940	100	36	48	20	28	25	0-40	M5	8	8	1.0 kg
53100941	150	50	53	25	28	30	0-80	M6	8	8	1.7 kgs
53100942	175	63	63	32	31	35	0-90	M6	10	11	3.0 kgs
53100943	190	73	70	35	35	35	0-100	M6	10	12	4.2 kgs
53100944	235	88	80	40	40	40	0-130	M8	12	14	7.0 kgs
53100945	245	100	90	45	45	45	0-130	M8	12	16	9.0 kgs
53100946	285	125	100	50	50	45	0-160	M8	14	18	15.0 kgs



SINE VISES



- Material: Tool steel, SK2
- Hardness: HRC56°- 60°
- Easy to set-up angle.
- 0°- 46°
- Parallelism: within 0.005 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

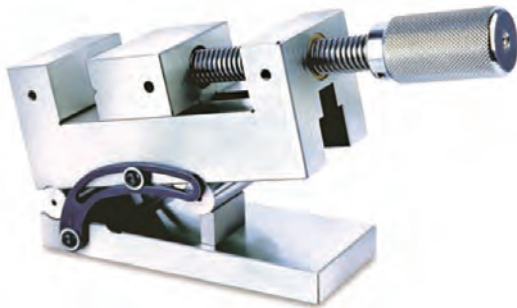


UNIT: mm

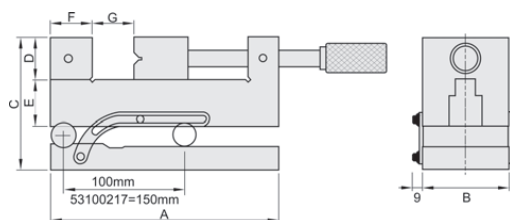
ITEM NO.	A	B	C	D	E	F	G	N.W.
53100210	150	48	90	25	28	25	0-75	2.6 kgs
53100211	176	63	96	30	29	30	0-85	4.8 kgs
53100212	190	73	105	35	33	35	0-95	7 kgs
53100213	245	98	129	45	45	45	0-125	15.5 kgs



SCREW FEED SINE VISES



- Material: Tool steel, SK2
- Hardness: HRC56°- 60°
- Easy to set-up angle.
- 0°- 46°
- Parallelism: within 0.005 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	N.W.
53100214	156	48	89	25	27	25	0-65	4.4 kgs
53100215	176	63	99	30	33	30	0-75	7 kgs
53100216	190	73	110	35	38	35	0-79	9 kgs
53100217	255	98	121	40	42	40	0-124	16 kgs



C4 - VISES

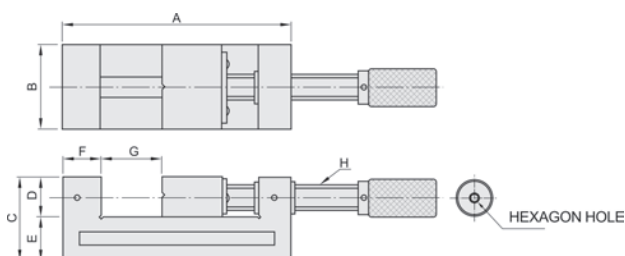
TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

SCREW FEED TOOLMAKERS VISES



- Lead screw feeding with hexagonal hole for using hex wrench to tighten further.
- Material: Tool steel, SK2
- Hardness: HRC56°~ 60°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	N.W.
53100218	156	48	52	25	27	25	0-65	2.5 kgs
53100219	176	63	63	30	33	30	0-75	4.5 kgs
53100220	190	73	73	35	38	35	0-79	6 kgs
53100221	255	98	82	45	42	40	0-124	12 kgs



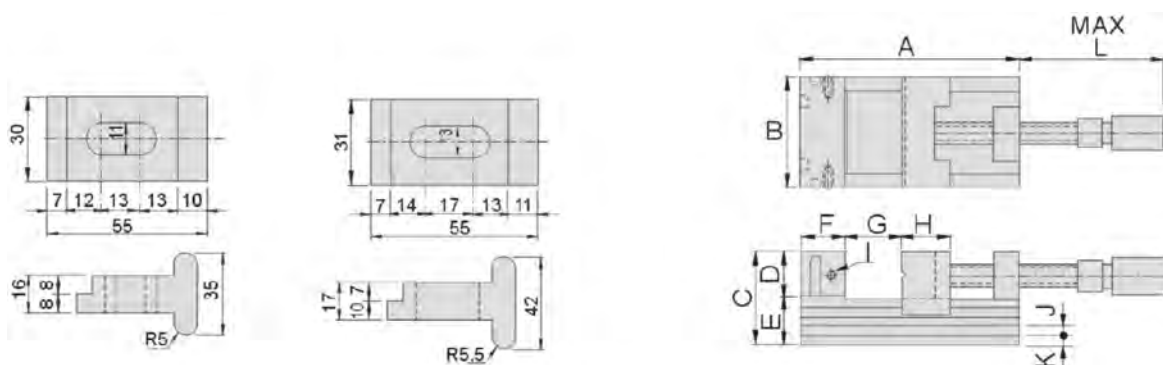
PRECISION HYDRAULIC VISES



FEATURES:

- Adopting hydraulic structure with stronger clamping force.
- High precision and quality, popular in worldwide.

Material: SNCM21
 Hardness: HRC56°~60°
 Max clamping force: 1500 kgf
 Parallelism: within 0.005 mm / 100 mm
 Squareness: within 0.005 mm / 100 mm

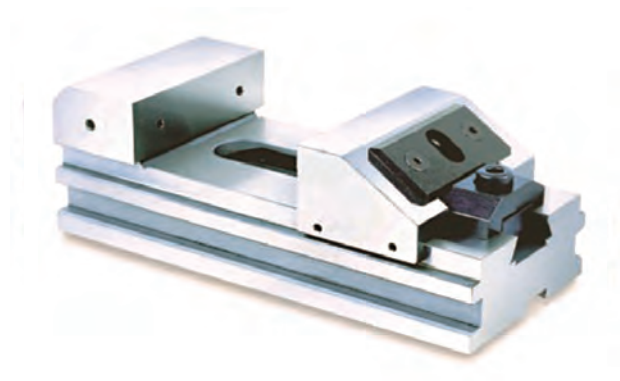


UNIT: mm

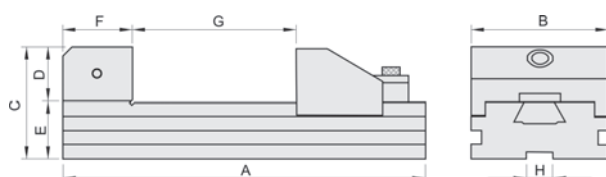
ITEM NO.	A	B	C	D	E	F	G	H	I	J (W x D)	K	L	N.W.
53100947	220	100	80	40	40	40	110	50	M10	9 x 7	9.5	235	11.1 kgs
53100948	300	125	90	40	50	60	165	70	M10	11 x 7	12.5	290	20.6 kgs
53100949	340	150	95	45	50	60	210	70	M10	12 x 11	14	340	23.5 kgs



TOOLMAKERS VISES



- Material: Tool steel, YK30
- Hardness:HRC58°
- Auxiliary locking stopper behind movable jaw ensures powerful clamping.
- Squareness & Parallelism : within 0.005 mm / 100 mm



UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	N.W.
53100183	180	60	53	25	28	35	0-80	3 kgs
53100184	205	80	63	30	33	40	0-100	5 kgs
53100185	205	96	80	38	42	45	0-125	10 kgs



PRECISION UNIVERSAL VISES

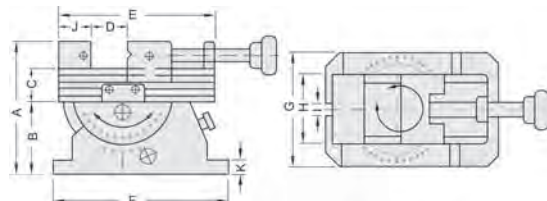
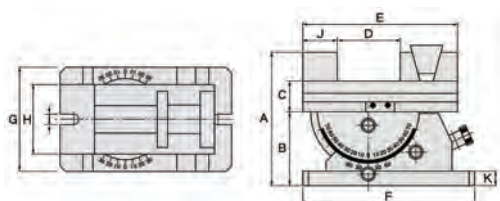


- Precision graduation for accurate reading.
- Horizontal swivel through 360°
- The unit tilt features make it well suited for flat or inclined surface to do angular drilling jobs on various machine tools such as precision surface grinders, boring and milling machines, electrical discharge machines, etc.

◀ ITEM NO. 53100674



▲ ITEM NO. 53100222



UNIT: mm

ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	N.W.
53100222	137	75	32	80	160	180	110	70	12.5	32	15	14 kgs
53100674	231	128	53	110	270	300	180	120	18	60	25	43 kgs



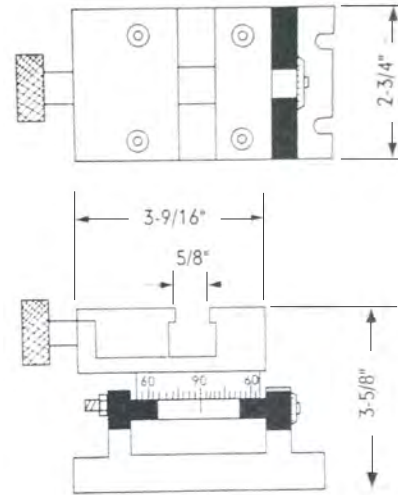
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MINI PRECISION TILT & SWIVEL VISE

FEATURES:

- Vise furnished complete with jig plate which can be removed for grinding and milling.
- In addition, the swivel angle attachment may be removed for use as a plain vise.
- This is ideal for jig boring, jig grinding, precision grinding as well as milling and drilling operations.
- Tolerance $\pm 0.0005"$, graduations are furnished on both the tilt and swivel.



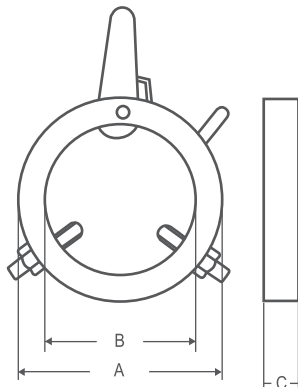
ITEM NO.	JAW WIDTH	JAW OPENING	JAW DEPTH	HEIGHT
53100223	2-3/4"	5/8"	25/32"	3-5/8"



DRIVING DOGS

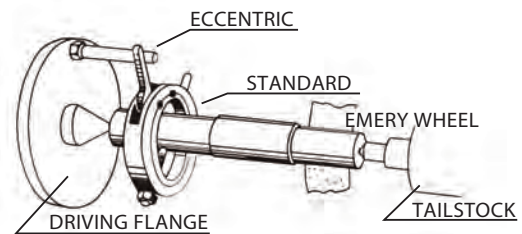


ITEM NO. 56100185~56100195



FEATURES:

- Suitable for grinding of shafts.
- Easy setup.



UNIT: mm

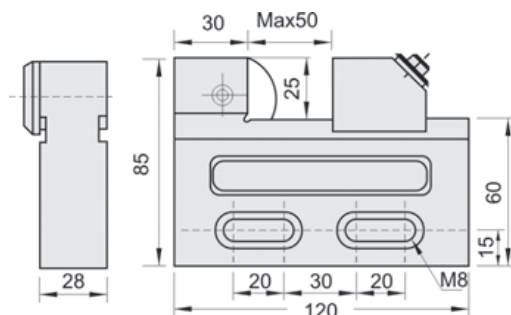
ITEM NO.	RANGE	A	B	C
56100185	ø6 - ø14	36	18	9
56100186	ø13 - ø24	48	28	9
56100187	ø20 - ø33	58	38	11
56100188	ø31 - ø42	68	48	11
56100189	ø35 - ø50	78	58	11
56100190	ø40 - ø62	89	68	11
56100191	ø60 - ø80	119	88	13
51100192	ø80 - ø100	140	109	13



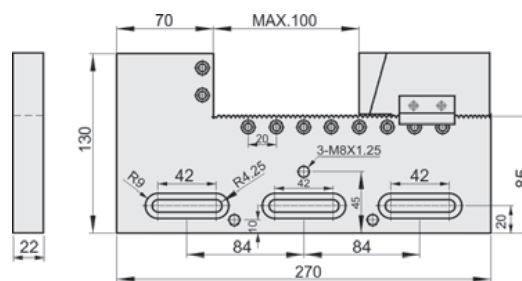
PRECISION VISE FOR WIRE CUT (STAINLESS STEEL)



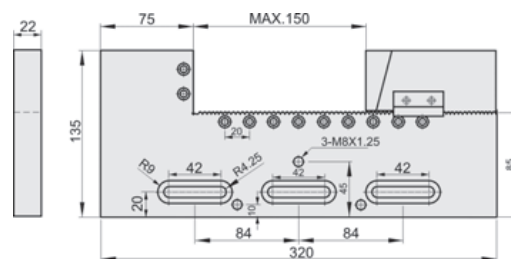
▲ ITEM NO. 53100179



▲ ITEM NO. 53100180



▲ ITEM NO. 53100181



ACCURACY:

- Parallelism: ± 0.002 mm
- Squareness: ± 0.002 mm

< SPECIFICATIONS:

UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	N. W.
53100179	28	50	25	13.5 kgs
53100180	22	100	45	4.5 kgs
53100181	22	150	50	5.5 kgs



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

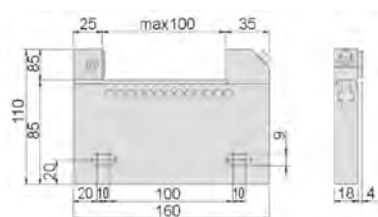
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



STAINLESS PRECISION VISE FOR EDM



▲ ITEM NO. 53100950



FEATURES:

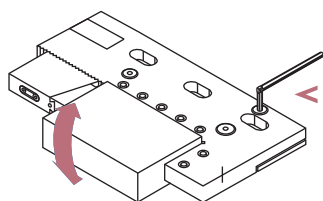
- Adopting high quality stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Suitable for small and thin workpieces' application.
- With 45° lock down design, workpiece anti-floats when clamp.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

UNIT: mm

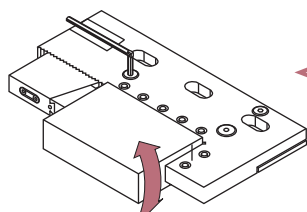
DIMENSION	CLAMPING RANGE			N.W.
	MAX.	THICKNESS	DEPTH	
18 x 110 x 160	100	18	25	2.8 kgs



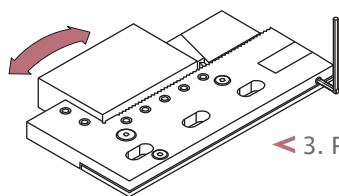
ADJUSTABLE STAINLESS STEEL VISE FOR WIRE CUT (EDM)



< 1. Leveling adjustment



< 2. Leveling adjustment

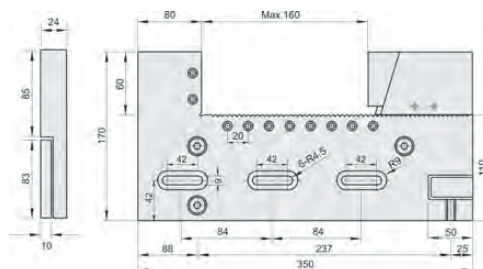


< 3. Parallel adjustment

▼ ITEM NO. 53100182



▼ 53100182 SPEC.



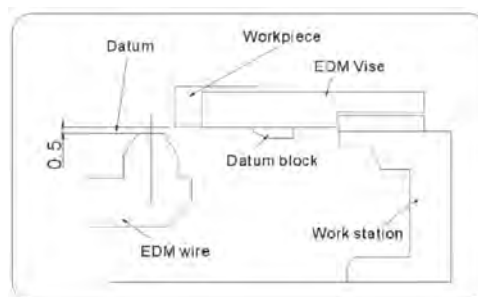
FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With 45° lock down design, workpiece anti-floats when clamp.
- 3-axis can be adjusted in this model.
- High water pressure resistance when clamping.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

UNIT: mm

DIMENSION	CLAMPING RANGE			N.W.
	MAX.	THICKNESS	DEPTH	
53100182-1	24 x 170 x 270	100	50	5.5 kgs
53100182	24 x 170 x 350	160	60	8.6 kgs

▼ Graphic of installation





ADJUSTABLE STAINLESS STEEL VISE FOR CUT (EDM)

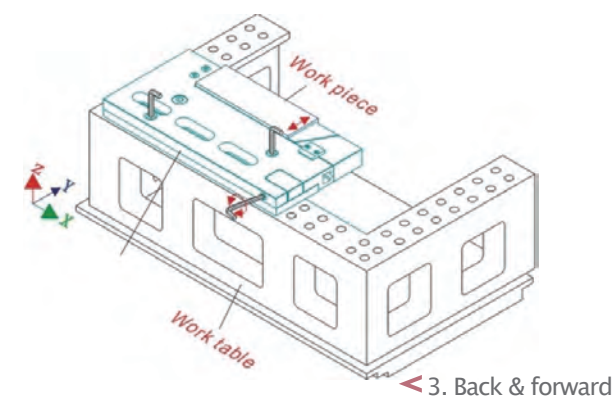
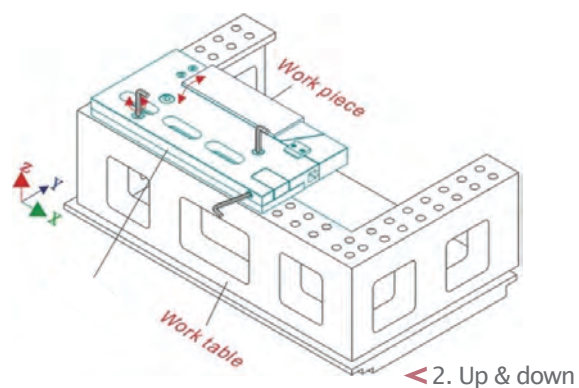
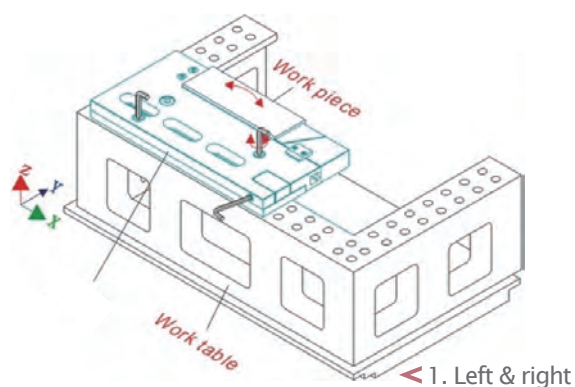
ITEM NO. 53100182-3



ITEM NO. 53100182-2

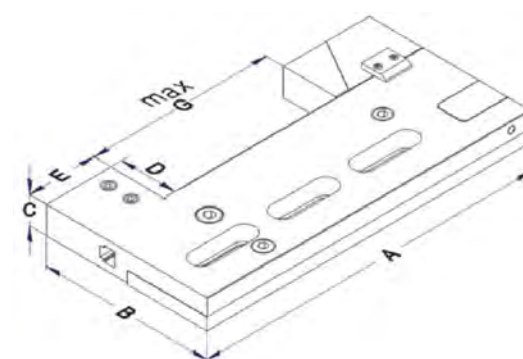


X, Y, Z axes fine-tuning illustration

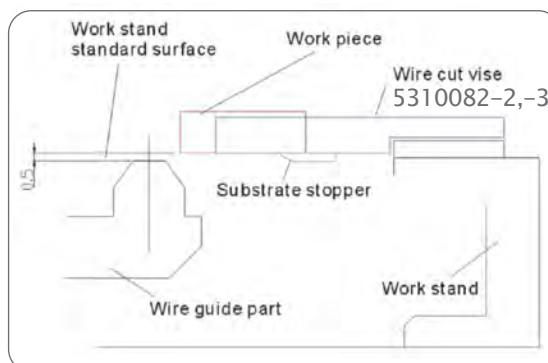


FEATURES:

- Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With X, Y, and Z axes fine-tuning function.
- Material: SUS440
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



Installation illustration



UNIT: mm

ITEM NO.	A	B	C	D	E	G	N.W.
53100182-2	245	160	24	50	55	100	5.4 kgs
53100182-3	300	160	24	50	60	150	7.8 kgs



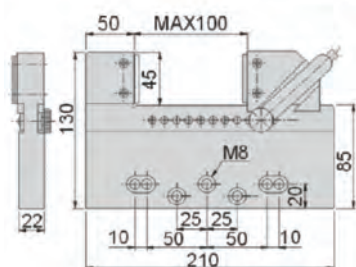
C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



STAINLESS PRECISION VISE FOR EDM



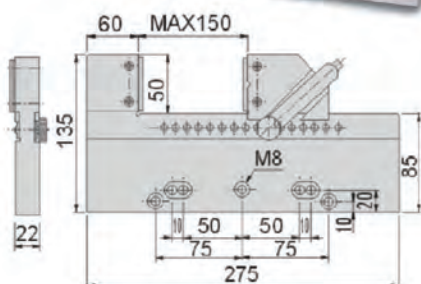
FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With 45° lock down design, workpiece anti-floats when clamp.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

< ITEM NO. 53100951

UNIT: mm

ITEM NO.	DIMENSION	CLAMPING RANGE		N.W.	
		MAX. THICKNESS	DEPTH		
53100951	22 x 135 x 210	100	22	45	3.0 kgs



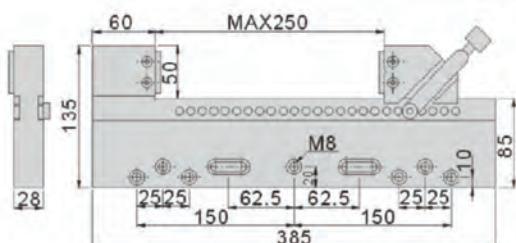
FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With 45° lock down design, workpiece anti-floats when clamp.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

< ITEM NO. 53100952

UNIT: mm

ITEM NO.	DIMENSION	CLAMPING RANGE		N.W.	
		MAX. THICKNESS	DEPTH		
53100952	22 x 135 x 275	150	22	50	4.0 kgs



FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With 45° lock down design, workpiece anti-floats when clamp.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

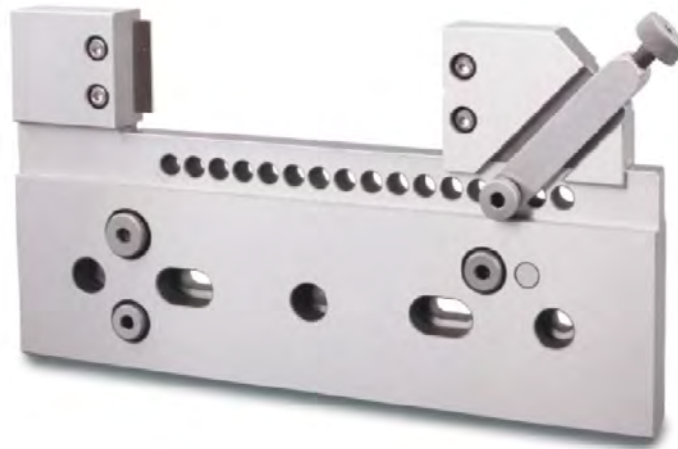
< ITEM NO. 53100953

UNIT: mm

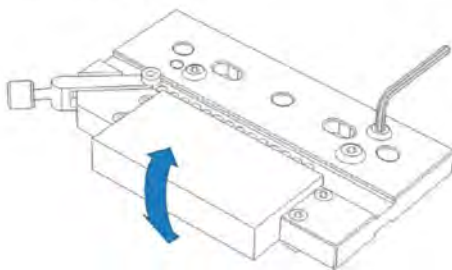
ITEM NO.	DIMENSION	CLAMPING RANGE		N.W.	
		MAX. THICKNESS	DEPTH		
53100953	28 x 135 x 385	250	28	50	5.5 kgs



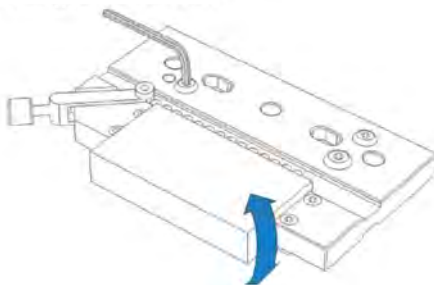
STAINLESS PRECISION VISE FOR EDM



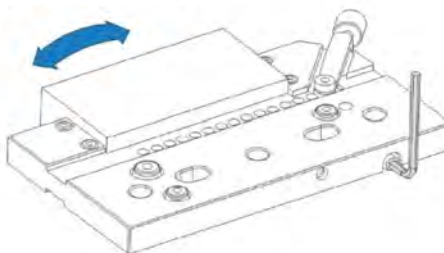
▲ ITEM NO. 53100954



▲ 1.Leveling adjustment



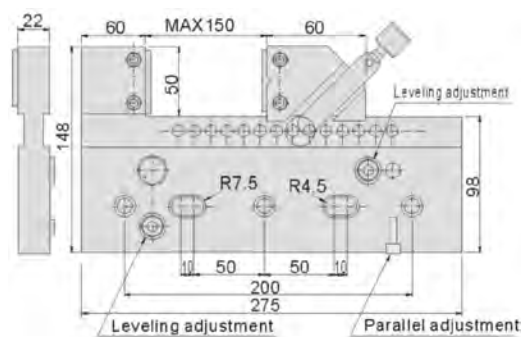
▲ 2,Leveling adjustment



▲ 2.Parallel adjustment

FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment , stable and distortion free.
- With 45° lock down design, workpiece anti-floats when clamp.
- 3-axis can be adjustable in this model.
- High water pressure resistance when clamping.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



UNIT: mm

ITEM NO.	DIMENSION	CLAMPING RANGE			N.W.
		MAX.	THICKNESS	DEPTH	
53100954	22 x 148 x 275	150	22	50	5.5 kgs



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

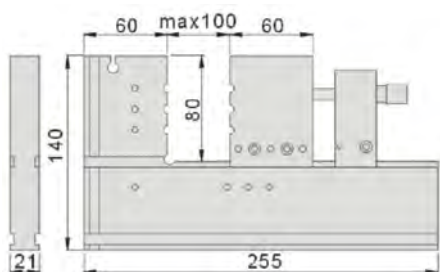
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



STAINLESS PRECISION VISE FOR EDM

FEATURES:

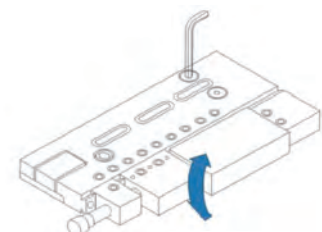
- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With screw bar design, workpiece can be easily and rapidly clamped to any suitable size.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



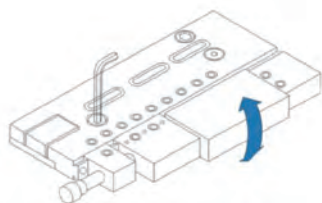
▲ ITEM NO. 53100955

UNIT: mm

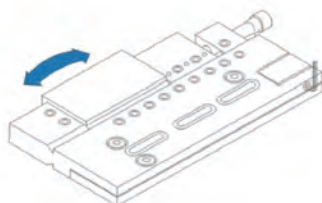
ITEM NO.	A	B	C	D	E	F	G	H	I	N.W.
53100955	275	135	85	50	60	60	120	24	35	5.5 kgs



▲ 1. Leveling adjustment



▲ 2. Leveling adjustment



▲ 3. Parallel adjustment

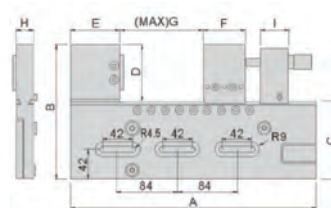
FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With screw bar design, workpiece can be easily and rapidly clamped to any suitable size.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

◀ ITEM NO. 53100956



▲ ITEM NO. 53100957



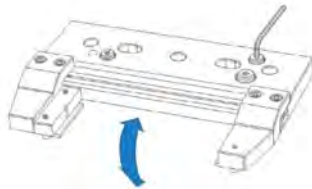
▲ ITEM NO. 53100957 SPEC.

UNIT: mm

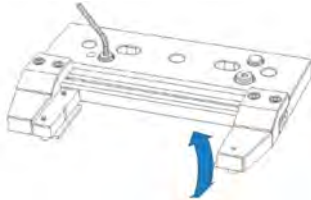
ITEM NO.	A	B	C	D	E	F	G	H	I	N.W.
53100956	275	160	110	50	60	60	120	24	35	7.0 kgs
53100957	350	170	110	60	70	60	180	24	35	9.0 kgs



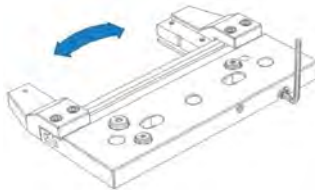
STAINLESS PRECISION VISE FOR EDM



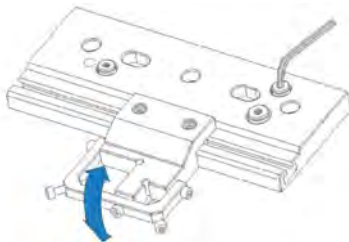
▲ 1. Leveling adjustment



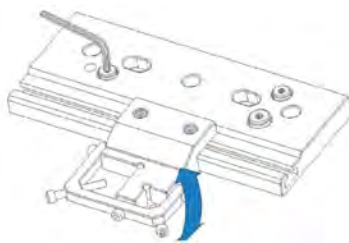
▲ 2. Leveling adjustment



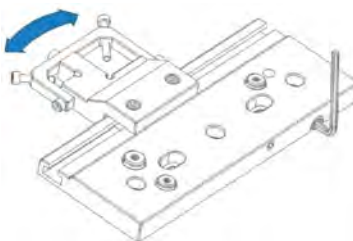
▲ 3. Parallel adjustment



▲ 1. Leveling adjustment



▲ 2. Leveling adjustment

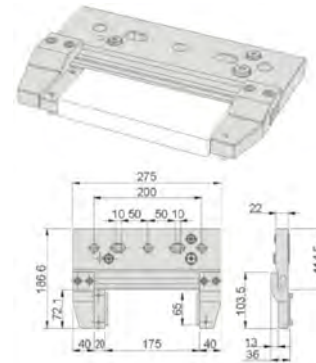


▲ 3. Parallel adjustment

▼ ITEM NO. 53100958



▼ Application example



FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With 45° jaw design, workpiece anti-floats when clamp.
- Adopting ball bearings makes 3-axis adjustments much more efficient.
- High water pressure resistance when clamping.
- Hardness: HRC45°~55°.
- Parallelism: within 0.003 mm / 100 mm.

UNIT: mm

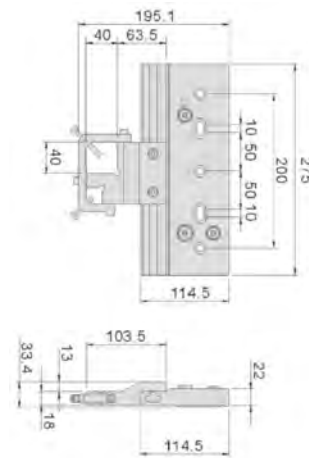
ITEM NO.	DIMENSION	CLAMPING RANGE			N.W.
		MAX.	THICKNESS	DEPTH	
53100958	36 x 186.6 x 275	175	22	72.1	6 kgs

FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With 45° jaw design, workpiece anti-floats when clamp.
- Adopting ball bearings makes 3-axis adjustments much more efficient.
- High water pressure resistance when clamping.
- Clamping range for round workpiece: $\phi 3 \sim \phi 38$ mm
- In small V groove: $\phi 3 \sim \phi 20$ mm
- In large V groove: $\phi 10 \sim \phi 38$ mm
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm/100 mm
- Squareness: within 0.005 mm/100 mm



▲ ITEM NO. 53100959



UNIT: mm

ITEM NO.	DIMENSION	CLAMPING RANGE		N.W.
		SMALL V GROOVE	LARGE V GROOVE	
53100959	33.4 x 195.1 x 275	$\phi 3 \sim \phi 20$	$\phi 10 \sim \phi 38$	5.7 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



CLAMPS FOR WIRE EDM

ITEM NO. 53100960



FEATURES:

- Suitable for using in WEDM machines
- Adopting stainless steel with heat treatment, stable and distortion free.
- Based on the type of WEDM machines and workpiece applied, it can make various combinations.
- Material: SUS440
- Hardness: HRC50°~55°

FEATURES:

- Suitable for using in WEDM machines
- Adopting stainless steel with heat treatment, stable and distortion free.
- Based on the type of WEDM machines and workpiece applied, it can make various combinations.
- Material: SUS440
- Hardness: HRC50°~55°

UNIT: mm

ITEM NO.	SPEC.	MARK
53100961	70 x 22 x 8	Ultra-thin
53100962	70 x 22 x 12	Standard

ITEM NO. 53100961,
53100962



ITEM NO. 53100963,
53100964



FEATURES:

- Suitable for using in WEDM machines
- Adopting stainless steel with heat treatment, stable and distortion free.
- Based on the type of WEDM machines and workpiece applied, it can make various combinations.
- Material: SUS440
- Hardness: HRC50°~55°

UNIT: mm

ITEM NO.	SPEC.	MARK
53100963	110 x 22 x 8	Ultra-thin
53100964	90 x 22 x 12	Standard



WIRE EDM EXTENSIONS FIXED BLOCKS

ITEM NO. 53100965



FEATURES:

- Suitable for using in WEDM machines
- Adopting stainless steel with heat treatment, stable and distortion free.
- Based on the type of WEDM machines and workpiece applied, it can make various combinations.
- Material: SUS440
- Hardness: HRC50°~55°

Spec. : L50 x W20 x T5 M6 x 3

ITEM NO. 53100966



FEATURES:

- Suitable for using in WEDM machines
- Adopting stainless steel with heat treatment, stable and distortion free.
- Based on the type of WEDM machines and workpiece applied, it can make various combinations.
- Material: SUS440
- Hardness: HRC50°~55°

Spec. : L65 x W20 x T5 M5 x 4



WIRE EDM EXTENSIONS CLAMPS

✓ ITEM NO. 53100967



FEATURES:

- Suitable for using in WEDM machines
 - Adopting stainless steel with heat treatment, stable and distortion free.
 - Based on the type of WEDM machines and workpiece applied, it can make various combinations.
 - Material: SUS440
 - Hardness: HRC50°~55°
 - Parallelism: within 0.003 mm / 100 mm
 - Squareness: within 0.005 mm / 100 mm
- Spec. : L120 x W50 x T15 + H5

✓ ITEM NO. 53100968



FEATURES:

- Suitable for using in WEDM machines.
 - Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
 - Based on the type of WEDM machines and workpiece applied, it can make various combinations.
 - Material: SUS440
 - Hardness: HRC50°~55°
 - Parallelism: within 0.003 mm / 100 mm
 - Squareness: within 0.005 mm / 100 mm
- Spec. : L120 x W100 x T15 + H5

✓ ITEM NO. 53100969



FEATURES:

- Suitable for using in WEDM machines.
 - Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
 - Based on the type of WEDM machines and workpiece applied, it can make various combinations.
 - Material: SUS440
 - Hardness: HRC50°~55°
 - Parallelism: within 0.003 mm / 100 mm
 - Squareness: within 0.005 mm / 100 mm
- Spec. : L120 x W200 x T15 + H5

✓ ITEM NO. 53100970



FEATURES:

- Suitable for using in WEDM machines.
 - Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
 - Based on the type of WEDM machines and workpiece applied, it can make various combinations.
 - Material: SUS440
 - Hardness: HRC50°~55°
 - Parallelism: within 0.003 mm / 100 mm
 - Squareness: within 0.005 mm / 100 mm
- Spec. : L220 x W60 x T20 + H5

✓ ITEM NO. 53100971



FEATURES:

- Suitable for using in WEDM machines.
 - Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
 - Based on the type of WEDM machines and workpiece applied, it can make various combinations.
 - Material: SUS440
 - Hardness: HRC50°~55°
 - Parallelism: within 0.003 mm / 100 mm
 - Squareness: within 0.005 mm / 100 mm
- Spec. : L120 x W65 x T15 + H5



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



WIRE EDM EXTENSIONS CLAMP KITS

ITEM NO. 53100972



FEATURES:

- Suitable for using in WEDM machines.
- Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Based on the type of WEDM machines and workpiece applied, it can make various combinations.
- Material: SUS440
- Hardness: HRC50°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

A TYPE KITS INCLUDING:

ITEM NO.	Q'TY	PAGE
53100969	1PC	Refer to P C93~94
53100967	3PCS	
53100960	2PCS	
53100961	2PCS	
53100964	2PCS	
53100966	6PCS	

ITEM NO. 53100978



FEATURES:

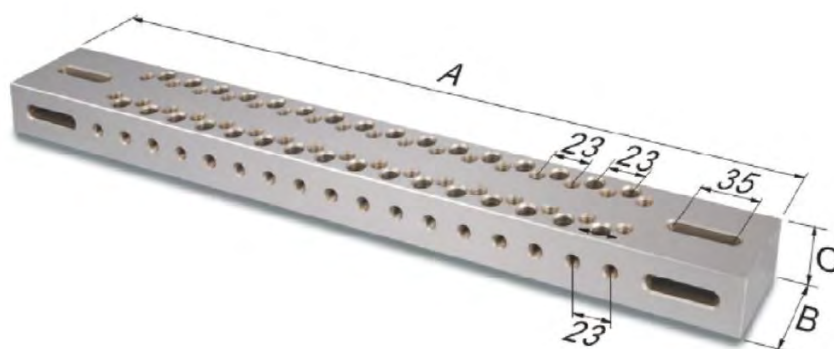
- Suitable for using in WEDM machines.
- Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Based on the type of WEDM machines and workpiece applied, it can make various combinations.
- Material: SUS440
- Hardness: HRC50°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

B TYPE KITS INCLUDING:

ITEM NO.	Q'TY	PAGE
53100971	6PCS	Refer to P C93~94
53100960	2PCS	
53100961	2PCS	
53100964	2PCS	
53100966	6PCS	



RULERS FOR WIRE EDM



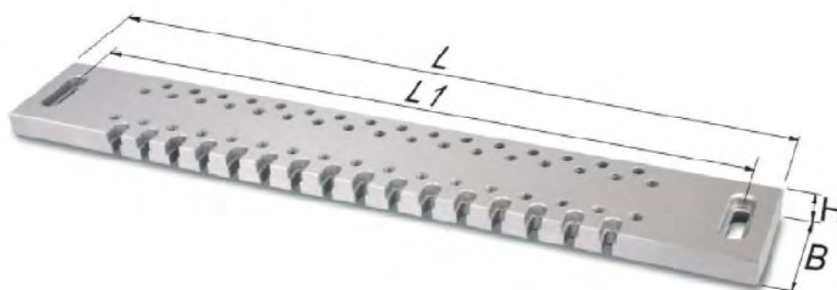
FEATURES:

- Suitable for using in WEDM machines.
- Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Suitable for large and heavy workpieces' application.
- Material: SUS440
- Hardness: HRC50°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

A TYPE KITS INCLUDING:

UNIT: mm

ITEM NO.	TYPE	A	B	C	N.W.
53100983	370	370	50	30	4.00 kgs
53100984	450	450	50	30	5.00 kgs
53100985	520	520	50	35	7.00 kgs
53100986	550	550	60	35	9.00 kgs
53100987	650	650	60	35	10.5 kgs



FEATURES:

- Suitable for using in WEDM machines.
- Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Suitable for large and heavy workpieces' application.
- Material: SUS440
- Hardness: HRC50°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

B TYPE KITS INCLUDING:

UNIT: mm

ITEM NO.	TYPE	L	L1	B	H	N.W.
53100988	370	370	320	75	20	4.00 kgs
53100989	480	480	430	75	20	5.20 kgs
53100990	520	520	480	75	20	6.00 kgs
53100991	550	550	500	90	22	8.20 kgs
53100992	600	600	550	90	22	9.00 kgs
53100993	650	650	600	90	22	10.0 kgs
53100994	750	750	700	90	22	11.3 kgs



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

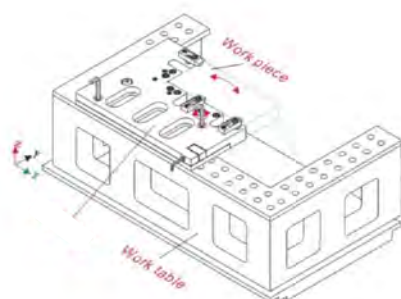
ADJUSTABLE FIXTURE FOR EDM

ITEM NO. 53100995

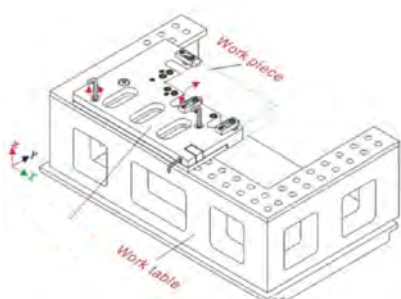


N.W. 4.5 kgs

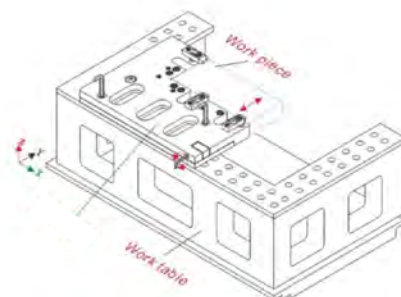
X, Y Z axes fine-tuning illustration



1. Left & right



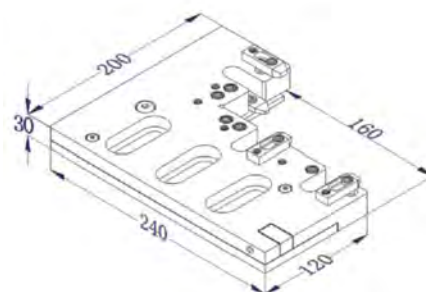
2. Up & down



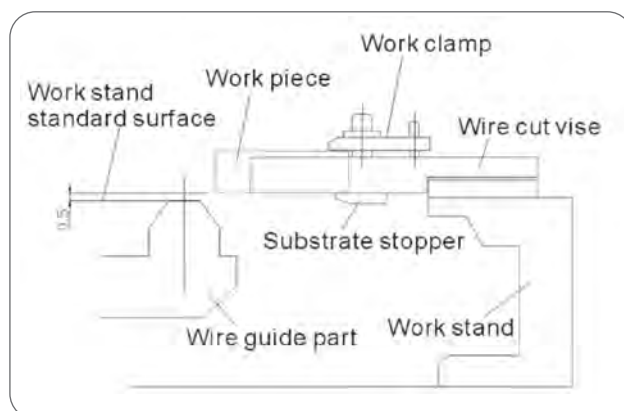
3. Back & forward

FEATURES:

- Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With X, Y, and Z axes fine-tuning function.
- Material: SUS440
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



Installation illustration





LEVELLING ADJUSTABLE UNIVERSAL FIXTURE

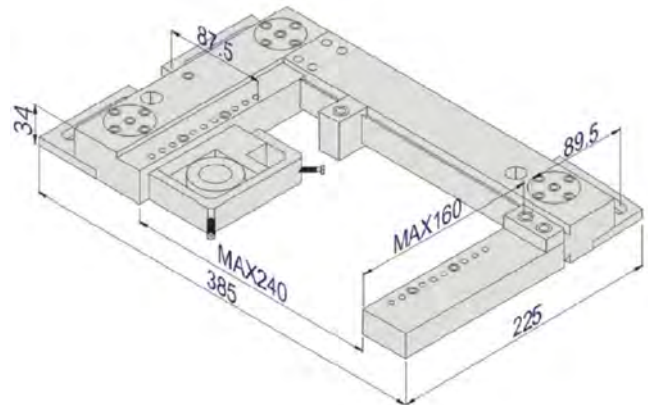
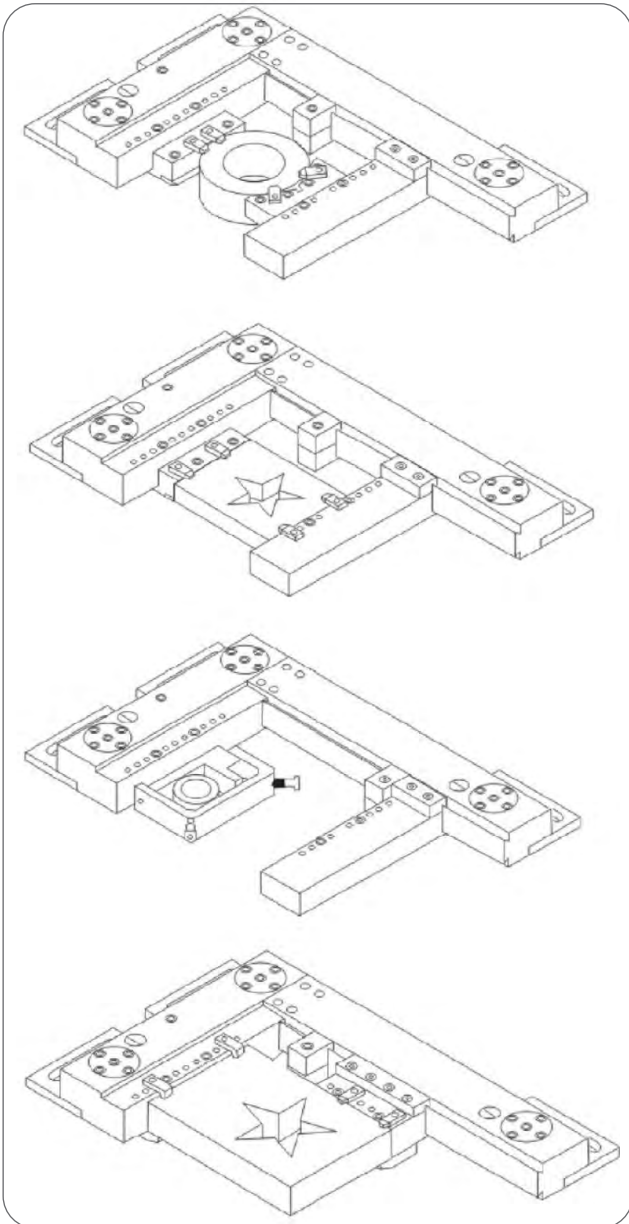
✓ ITEM NO. 53100996



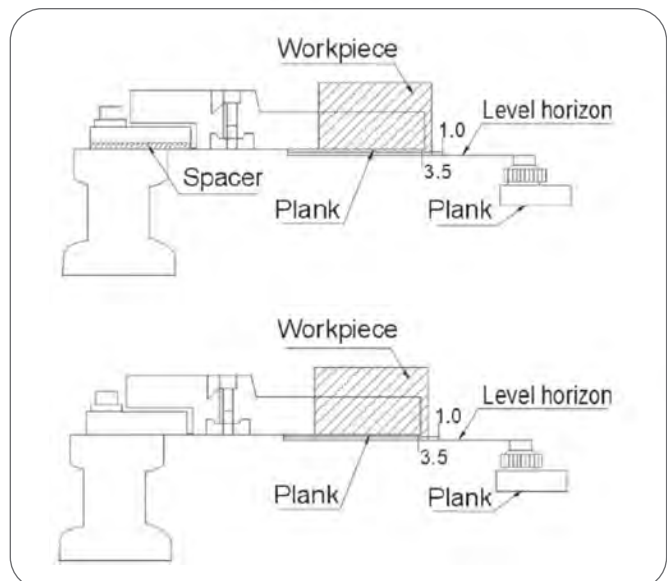
FEATURES:

- Suitable for using in WEDM machines.
- Adopting stainless steel with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Suitable for large and heavy workpieces' application.

✓ Application example:



✓ Graphic of installation:



C4 - VISES

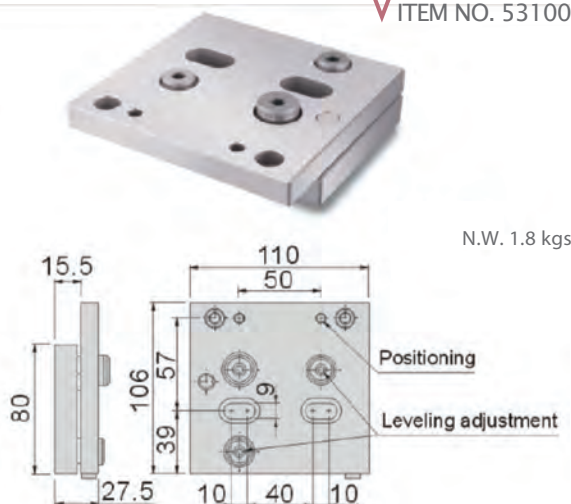
TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



LEVELLING BASE FOR WIRE EDM

ITEM NO. 53100997



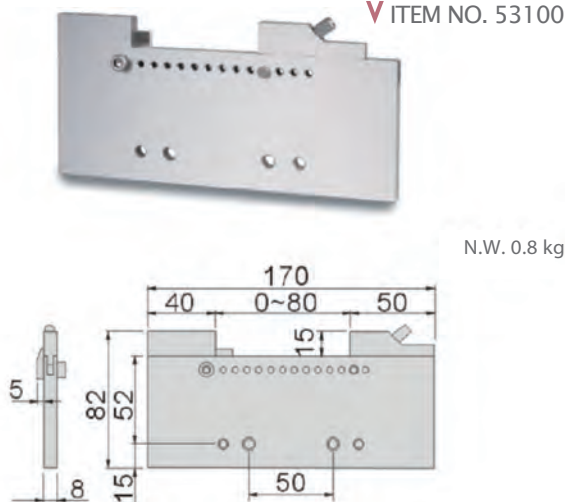
FEATURES:

- Suitable for using in WEDM machines and based on the processing needs, install with precision vise, V-block or parallel sets.
- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Suitable for small, thin and round workpieces' application.
- 3-axis can be adjusted by hex wrench.
- Material: SUS440
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



PRECISION VISES FOR WIRE EDM

ITEM NO. 53100998

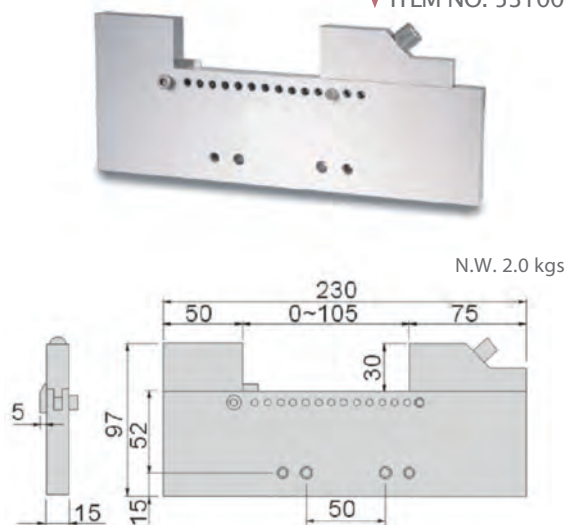


FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Can be installed with "Leveling base 53100997", 3-axis can be adjusted by hex wrench.
- Material: SUS440
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



ITEM NO. 53100999



Application example with Leveling base.

FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Can be installed with "Leveling base 53100997", 3-axis can be adjusted by hex wrench.
- Material: SUS440
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

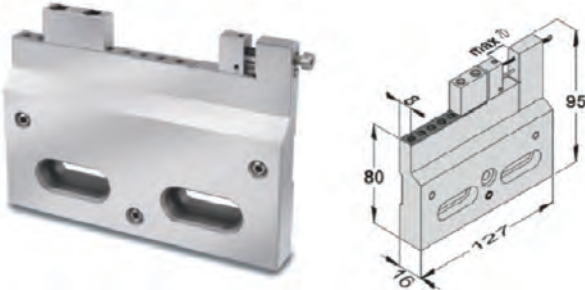


Application example with Leveling base.



WIRE EDM VISES

ITEM NO. 53101000



FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With manual screw design, it is suitable for small workpieces' application.
- High precision due to the special structure design.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm



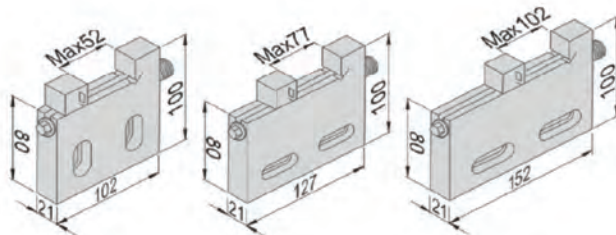
C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

ITEM NO. 53101001

ITEM NO. 53101002

ITEM NO. 53101003



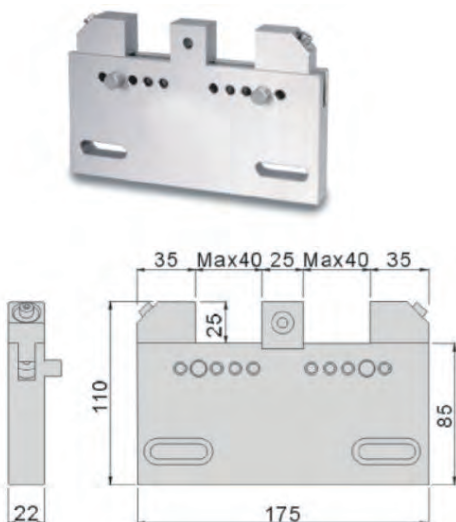
FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- With manual screw design, it is suitable for small workpieces' application.
- High precision due to the special structure design.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

UNIT: mm

ITEM NO.	DIMENSION	CLAMPING RANGE		N.W.
		MAX.	DEPTH	
53101001	21 x 100 x 102	52	20	1.1 kgs
53101002	21 x 100 x 127	77	20	1.8 kgs
53101003	21 x 100 x 152	102	28	2.0 kgs

ITEM NO. 53101004



FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat treatment, stable and distortion free.
- Quick dismantle function with 2 workpieces can be clamped at the same time.
- Lean angle design for the jaws, stronger clamping force and no floating.
- Hardness: HRC45°~55°
- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

UNIT: mm

ITEM NO.	DIMENSION	CLAMPING RANGE			N.W.
		MAX.	THICKNESS	DEPTH	
53101004	22 x 110 x 175	40	22	25	2.8 kgs

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



WIRE EDM DIVIDING DEVICE

ITEM NO. 53101005



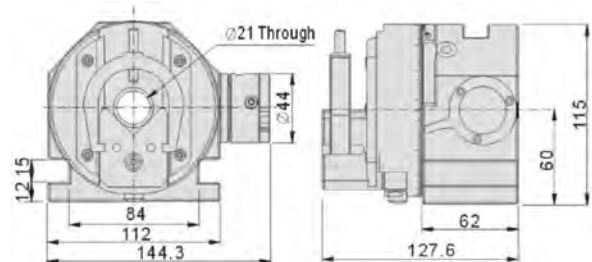
N.W. 9.6 kgs

Main parameters:

Center height 60±0.5 mm
 Indexer tooth q'ty & accuracy 24, 15° ±10"
 Through hole diameters ø21 mm
 Rotational accuracy..... 0.003 mm

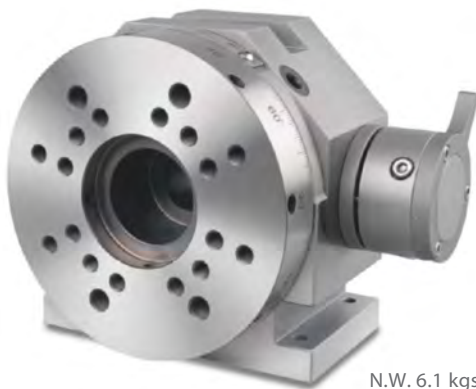
FEATURES:

- Adopting high quality stainless steel (ASSAB STAVAX) with sub-zero treatment after vacuum heat Treatment, stable and distortion free.
- High precision assembly, and special seal up waterproof, able to immerse into water.
- With dividing function, it is suitable for using in WEDM and surface grinding machines.



WIRE EDM DIVIDING DEVICE-BODY ONLY

ITEM NO. 53101006



N.W. 6.1 kgs

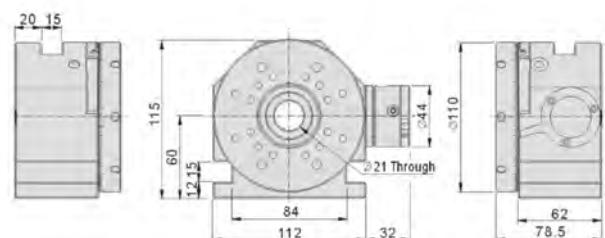
FEATURES:

- 53101006 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- Adopting high precision double bear in its structure to achieve higher accuracy, rigidity and stability.
- With interchangeable design, components can be chosen according to users' demand such as SC40, SC04, SC05 3-jaw chuck, ER20, ER32, ER50 collets.
- Also, 3R24, 3R28, EQC50, EQC100 position chuck can be applied to achieve modulisation.
- Depending on any demand in processing, optional accessories in SC40/ SC04/ SC05/ SER20/ SER32/ SER50 (p C14) are available to achieve cost effective.

FEATURES:

- Modulisation
- High rigidity, accuracy and stability
- Strong clamping force
- Various clamping sizes
- Flexible, fast and convenient
- Unique design with special surface treatment
- Longer lifetime

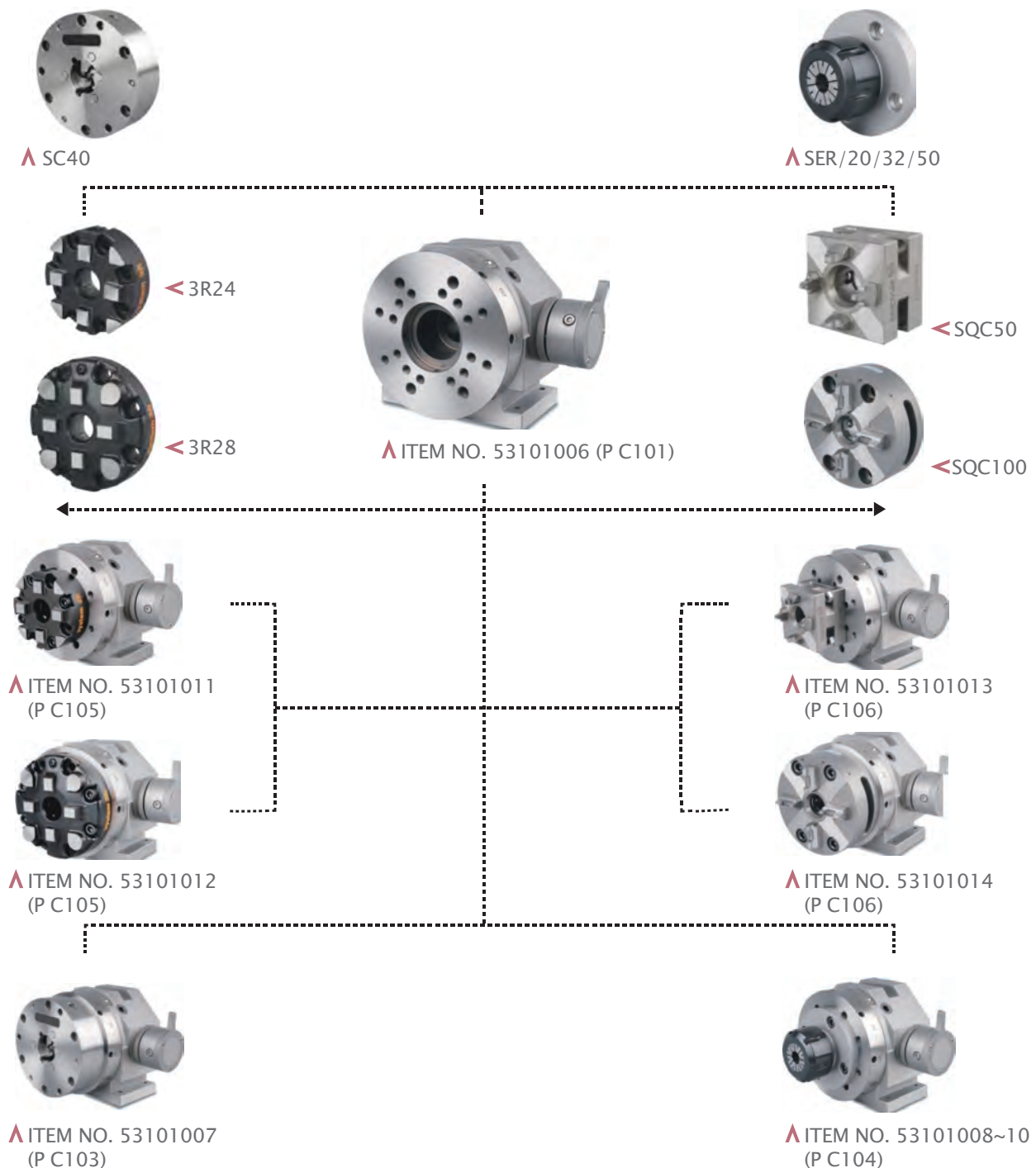
☆ See next page for more modulisation info





WIRE EDM DIVIDING DEVICE-BODY ONLY

Interchangeable components



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



SUPER PRECISION 3-JAW WIRE EDM DIVIDING DEVICE

ITEM NO. 53101007



Note: Due to SC40 3-jaw chuck has high precision structure design, apply torque wrench at all time, avoiding any possible damage.

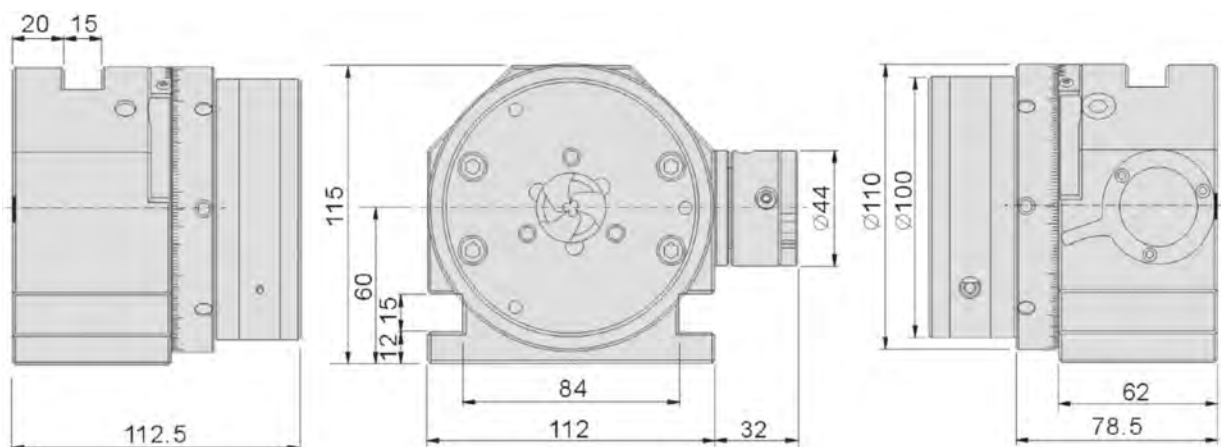
N.W. 7.6 kgs

FEATURES:

- 53101007 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- Special designed SC40 3-jaw chuck provides rapid clamping, and it is suitable for mass production.
- Workpiece with round shape can be precisely & rapidly clamped.
- Torque wrench is included for user-friendly purpose.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.

Main parameters:

Center height	60±0.5 mm
Indexer tooth q'ty & accuracy	24, 15° ±10"
Through hole diameters	Ø21 mm
Min. clamping range	Ø1 mm
Max. clamping range	Ø25 mm
Rotational accuracy	0.003 mm
Repeat accuracy	within 0.003 mm





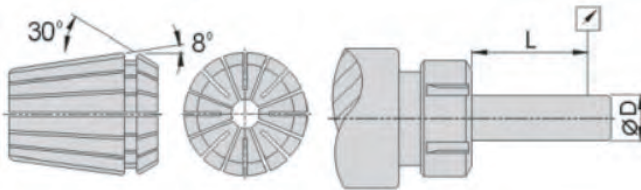
WIRE EDM DIVIDING DEVICES (ER)



FEATURES:

- 53101008~10 is adopting high quality stainless steel with waterproof and stronger structure, leading lasting durability.
- With ER collets, the flexible range of collet is 1mm.
- Capable collet clamping range: Min. $\varnothing 2\text{mm}$, Max. $\varnothing 34\text{mm}$
- It can rapidly clamp the workpiece and achieve higher stability during processing, no need to adjust the center accuracy.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model is compatible with various ER collets such as ER20, ER32, ER50, etc.

Note: ER & ER Nut are not made of stainless steel.



Main parameters:

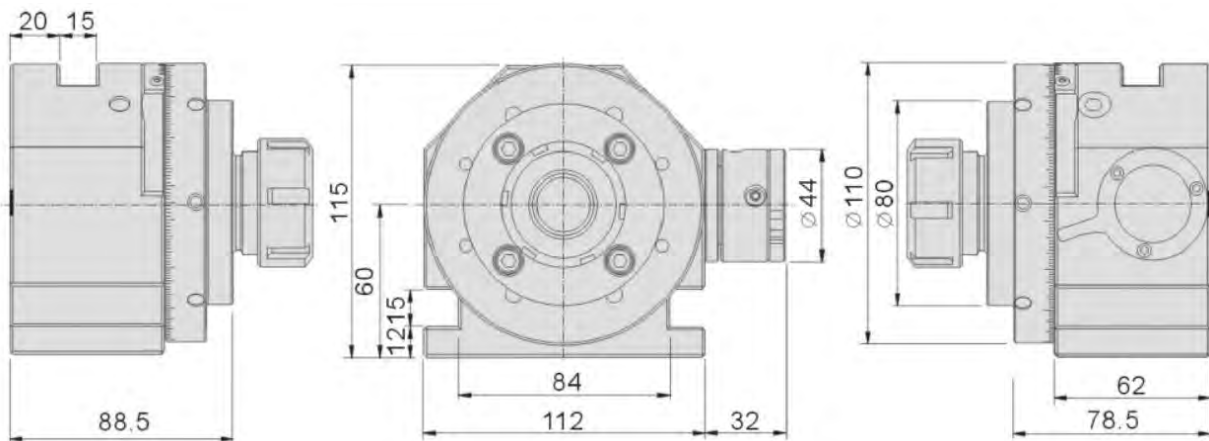
Center height $60 \pm 0.5 \text{ mm}$
 Indexer tooth q'ty & accuracy 24, $15^\circ \pm 10''$
 Through hole diameters $\varnothing 21 \text{ mm}$
 Rotational accuracy 0.003 mm

UNIT: mm

L	D	ACCURACY
6	1.0-1.6	0.01
10	1.6-3.0	0.01
16	3.0-7.0	0.01
25	7.0-10.0	0.01
40	10.0-18.0	0.01
50	18.0-24.0	0.01
60	24.0-34.0	0.01

UNIT: mm

ITEM NO.	TYPE	ER COLLET SPEC
53101008	SER20	3, 4, 6, 8, 10
53101009	SER32	4, 8, 12, 16, 20
53101010	SER50	12, 18, 20, 30, 34



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



WIRE EDM 3R DIVIDING DEVICES

✓ ITEM NO. 53101011



FEATURES:

- 53101011~2 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- With interchangeable design, components can be chosen according to users' demand.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model is applying positioning chuck of system 3R, and it also works with EROWA positioning chuck to achieve modulisation.

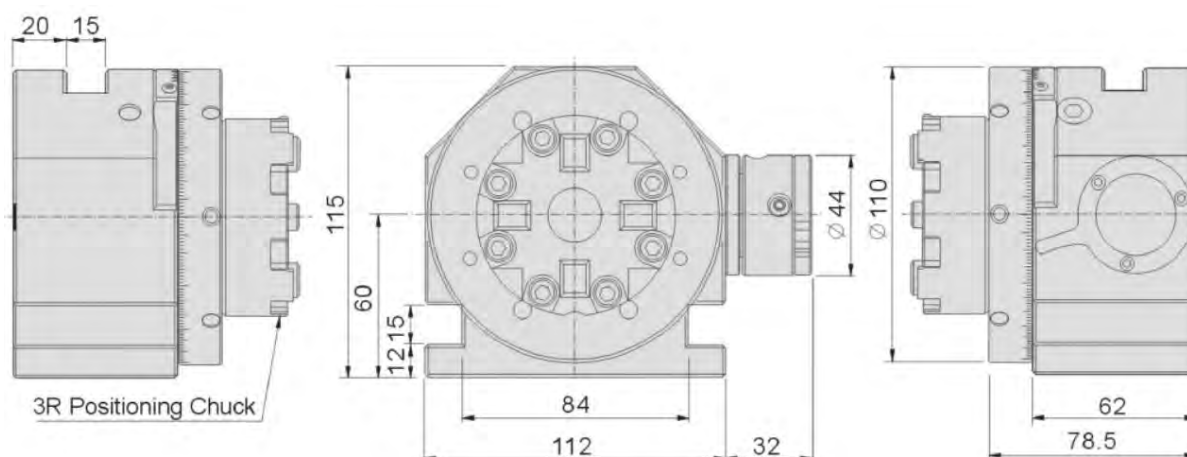
✓ ITEM NO. 53101012



Main parameters:

Center height 60±0.5 mm
 Indexer tooth q'ty & accuracy 24, 15° ±10"
 Through hole diameters ø21 mm
 Rotational accuracy 0.003 mm
 Repeat accuracy 0.003 mm

ITEM NO.	TYPE	POSITIONING CHUCK SPEC	CHUCK SPEC
53101011	3R24	3R24	
53101012	3R28	3R28	





WIRE EDM DIVIDING DEVICES

✓ ITEM NO. 53101013



FEATURES:

- 53101013~4 is adopting quality stainless steel with waterproof and stronger structure, leading lasting durability.
- With interchangeable design, components can be chosen according to users' demand.
- Adopting high precision double bearings in its structure to achieve higher accuracy, rigidity and stability.
- This model is applying positioning chuck of system 3R, and it also works with EROWA positioning chuck to achieve modulisation.

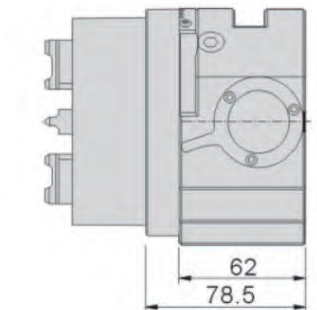
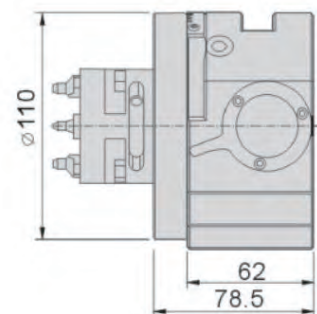
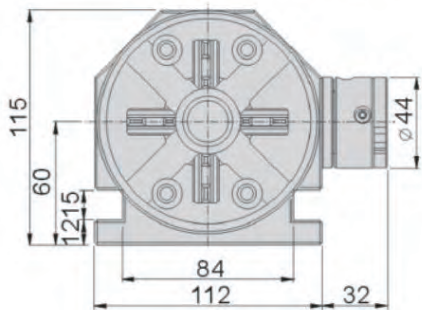
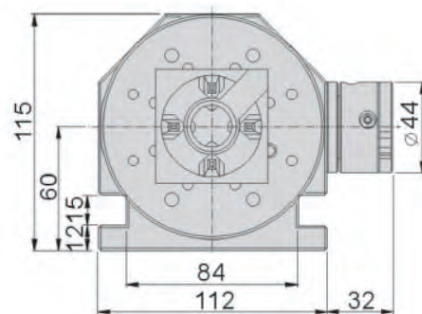
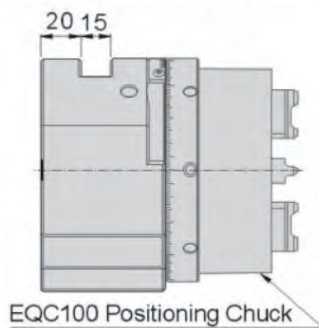
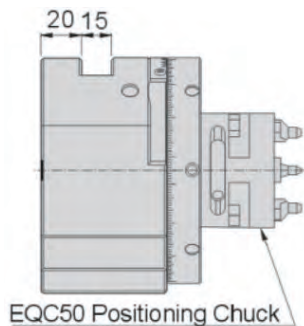
✓ ITEM NO. 53101014



Main parameters:

Center height 65 ± 0.5 mm
 Indexer tooth q'ty & accuracy $24, 15^\circ \pm 10''$
 Through hole diameters $\varnothing 21$ mm
 Rotational accuracy 0.003 mm
 Repeat accuracy 0.003 mm

ITEM NO.	TYPE	POSITIONING CHUCK SPEC
53101013	EQC50	EQC50
53101014	EQC100	EQC100



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



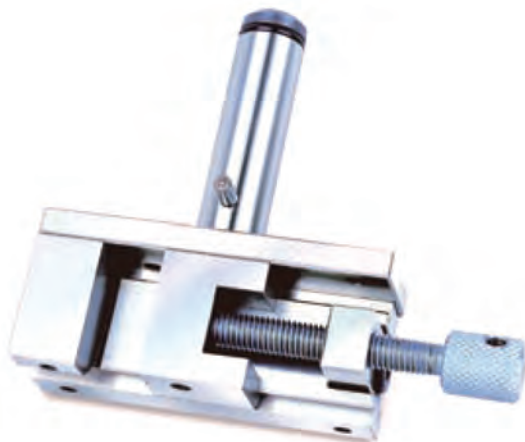
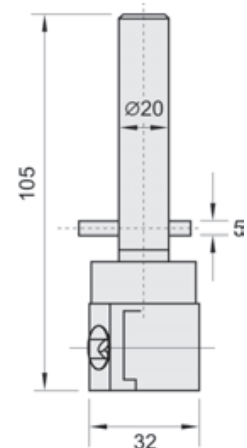
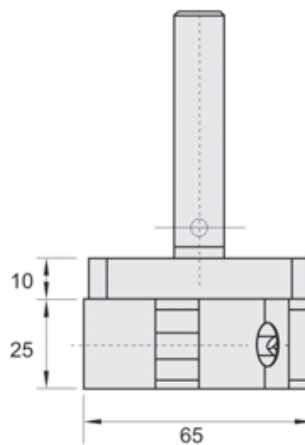
MINI TOOLMAKERS VISE WITH ELECTRODE HOLDER (STAINLESS STEEL)



▲ ITEM NO. 53100174

- For holding electrodes on EDM.
- All stainless steel including screws, SUS 440.
- Parallelism: within 0.003 mm / 100 mm.
- Squareness: within 0.005 mm / 100 mm.
- Hardness: HRC50°~ 55°

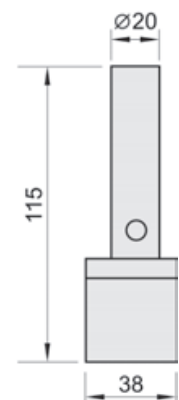
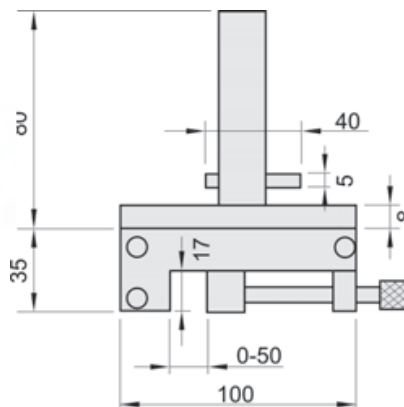
- Jaw width: 25 mm.
- Jaw opening: 20 mm.
- Jaw depth: 10 mm.
- Holder dia. : 20 mm.
- Weight: 0.5 kg.



▲ ITEM NO. 53100175

- All stainless steel including screws, SUS 440.
- Parallelism : within 0.003 mm / 100 mm.
- Squareness : within 0.005 mm / 100 mm.
- Hardness: HRC50°~ 55°

- Jaw width: 35 mm.
- Jaw opening: 50 mm.
- Jaw depth: 17 mm.
- Holder dia. : 20 mm.
- Weight: 1.2 kgs.





ELECTRODE VISES

- Material: SUS440
- Hardness: HRC48°~55°

- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

• UNIT: mm

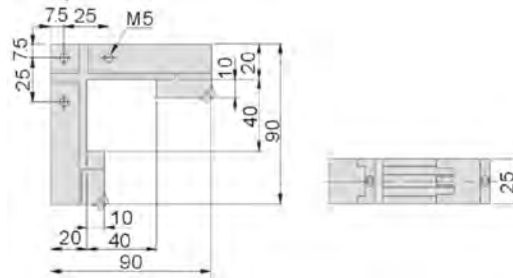


ITEM NO. 53101015

N. W. 0.8 kg

FEATURES:

- Two way clamping and suitable for small and precision work in EDM Machine.



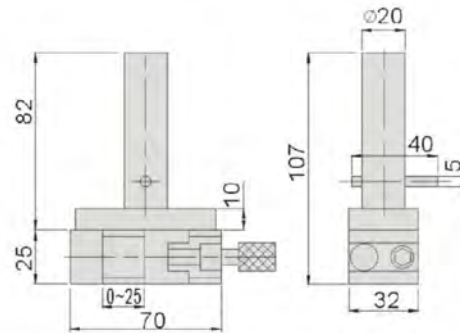
ITEM NO. 53101016



N. W. 0.7 kg

FEATURES:

- Compact version precision vise, suitable for small precision workpiece.
- Used in EDM machine.



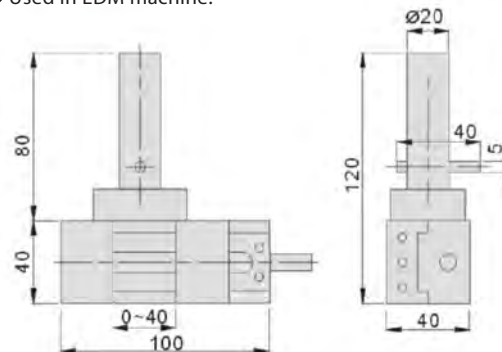
ITEM NO. 53101017



N. W. 1.2 kgs

FEATURES:

- Compact version precision vise, suitable for small precision workpiece.
- Used in EDM machine.



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



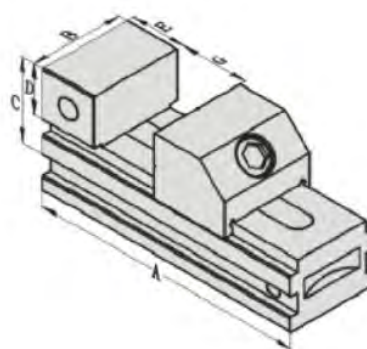
STAINLESS TOOL MAKER VISES

- Material: SUS440
- Hardness: HRC45°~55°

- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

FEATURES:

- Suitable for EDM, milling, and precision grinding work.

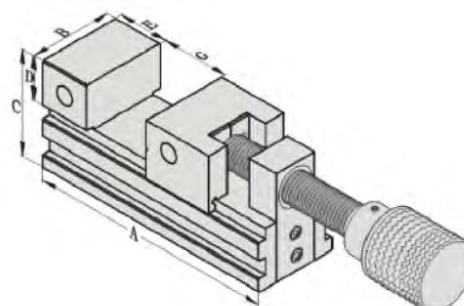
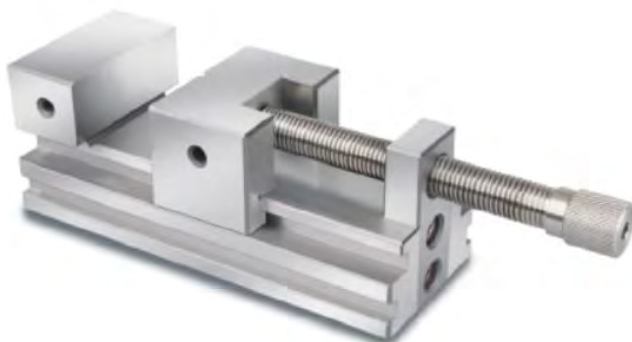


UNIT: mm

ITEM NO.	A	B	C	D	E	G	N. W.
53101018	100	35	40	20	25	0~45	1.0 kg
53101019	140	48	50	25	25	0~75	2.0 kgs
53101020	172	63	60	30	30	0~90	3.3 kgs
53101021	190	73	70	35	35	0~100	4.3 kgs
53101022	230	98	80	40	40	0~125	9.8 kgs

FEATURES:

- Suitable for EDM, milling, and precision grinding work.



UNIT: mm

ITEM NO.	A	B	C	D	E	G	N. W.
53101023	140	48	55	25	25	0~70	2.60 kgs
53101024	172	63	69	30	30	0~85	4.80 kgs
53101025	190	73	78	35	35	0~100	6.60 kgs
53101026	230	98	92	40	40	0~125	13.0 kgs



STAINLESS ELECTRODE VISES

- Material: SUS440
- Hardness: HRC48°~55°

- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.005 mm / 100 mm

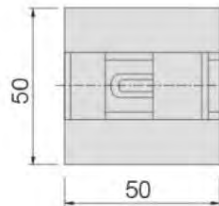
• UNIT: mm

ITEM NO. 53101027

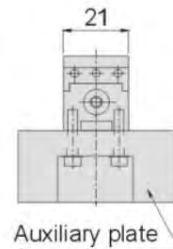
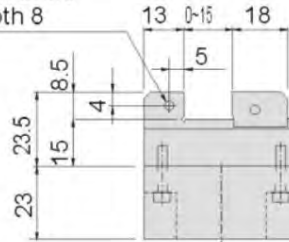
- It can be used with positioning plate of EROWA and System 3R.



N.W. 0.5kg



Both 2-M3
depth 8

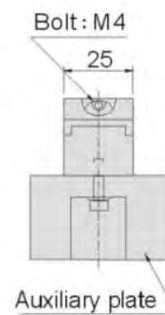
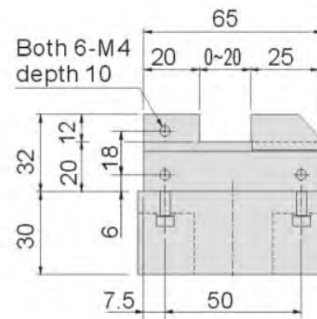
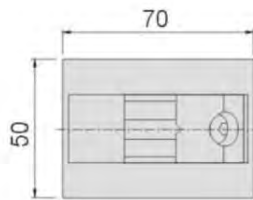


ITEM NO. 53101028

- It can be used with positioning plate of EROWA and System 3R.

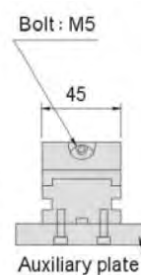
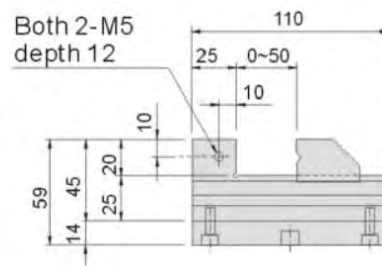


N.W. 1.0 kg



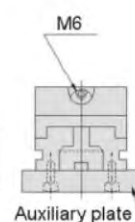
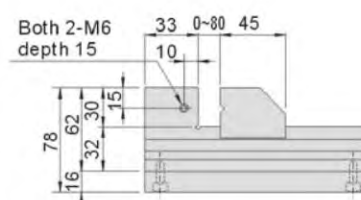
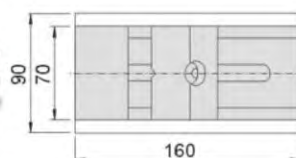
ITEM NO. 53101029

- It can be used with positioning plate of EROWA and System 3R.



ITEM NO. 53101030

- It can be used with positioning plate of EROWA and System 3R.



C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

STAINLESS ELECTRODE VISES

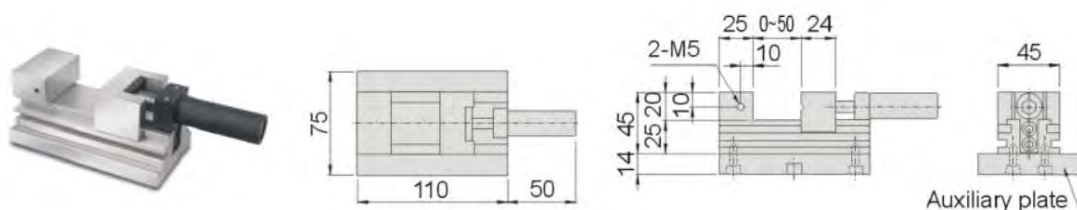
- Material: SUS440
- Hardness: HRC48°~55°

- Parallelism: within 0.003 mm / 100 mm
- Squareness: within 0.003 mm / 100 mm

- UNIT: mm

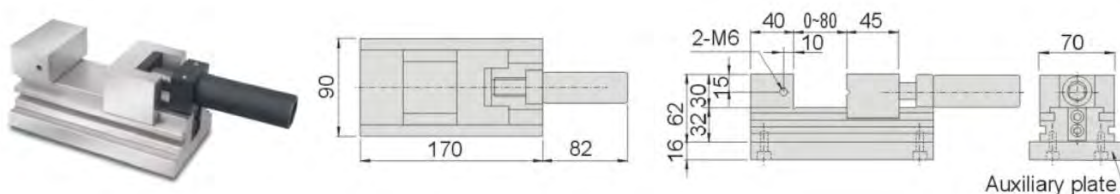
✓ ITEM NO. 53101031

- It can be used with positioning plate of EROWA (ER-009214) and System 3R (3R-651.7E-P)



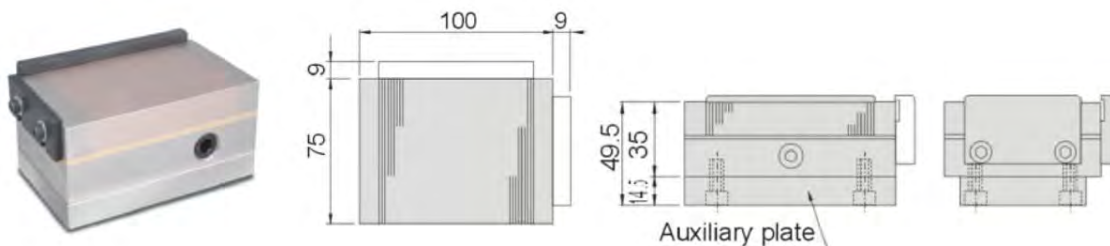
✓ ITEM NO. 53101032

- It can be used with positioning plate of EROWA (ER-009214) and System 3R (3R-651.7E-P)



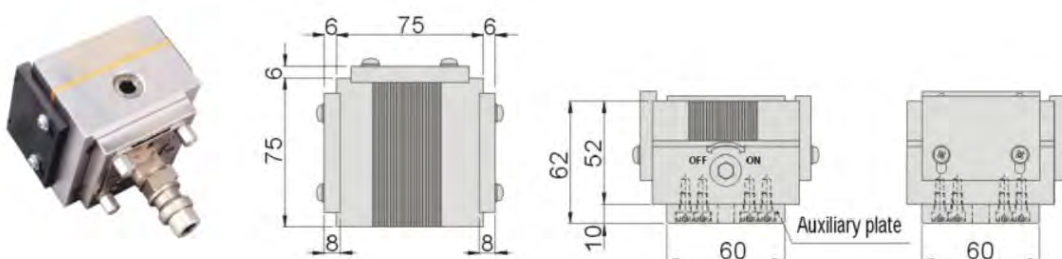
✓ ITEM. 53101033

- It can be used with positioning plate of EROWA (ER-009214) and System 3R (3R-651.7E-P)



✓ ITEM. 53101034

- It can be used with positioning plate of EROWA (ER-009214) and System 3R (3R-651.7E-P)

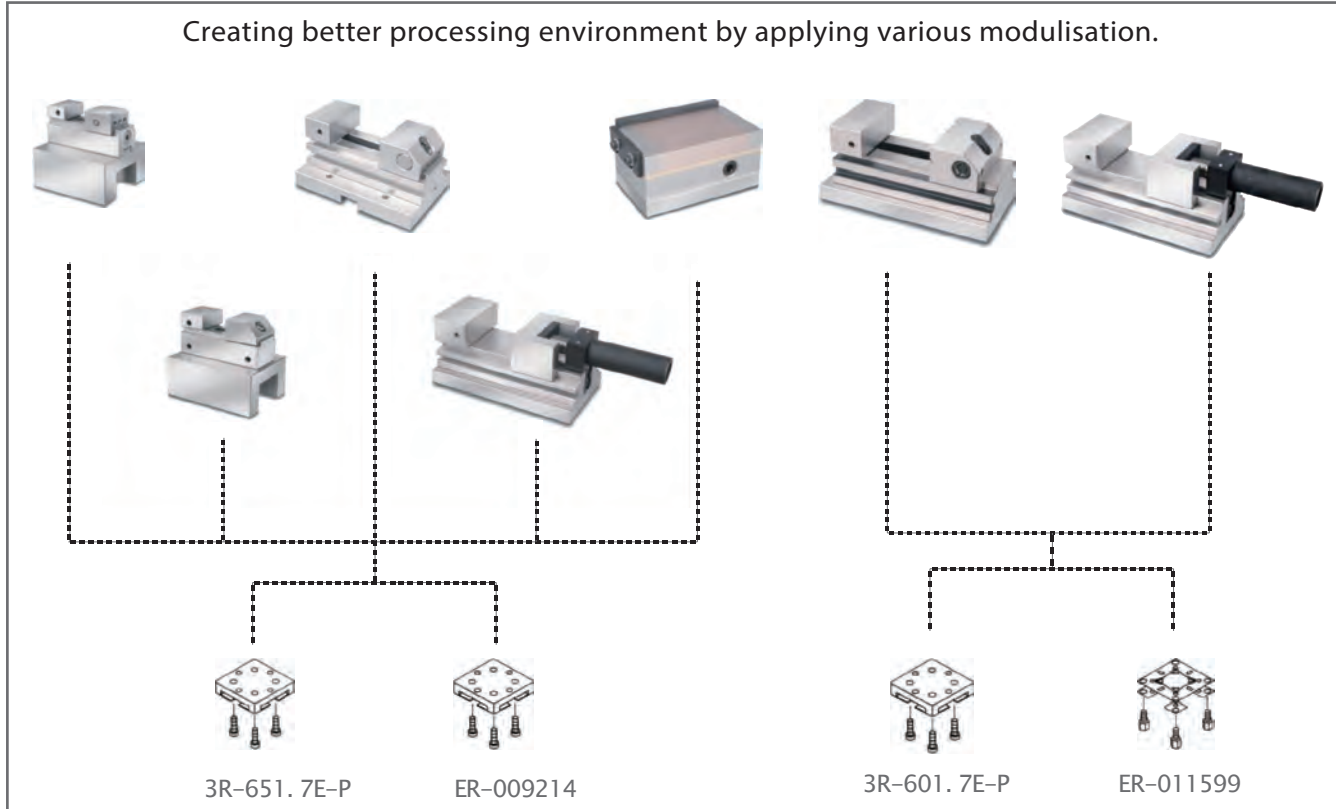




STAINLESS ELECTRODE VISES

Breakthrough thinking of high precision systems for efficiency working environment.

Creating better processing environment by applying various modulisation.



EDM

EDM

GRINDING



FEATURES:

- Simple: It can be applied straight away after purchasing.
- Economic: More cost effective and easy to be used in parallel.
- Compatibility: Same material applied with EROWA and System 3R.



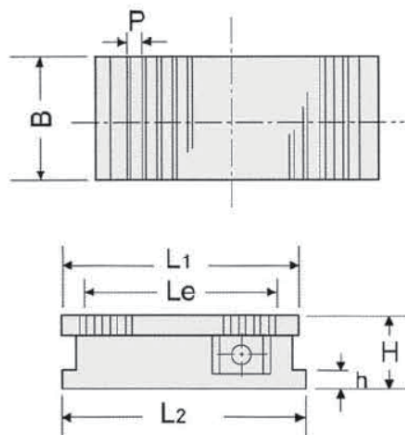
C4 - VISES

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



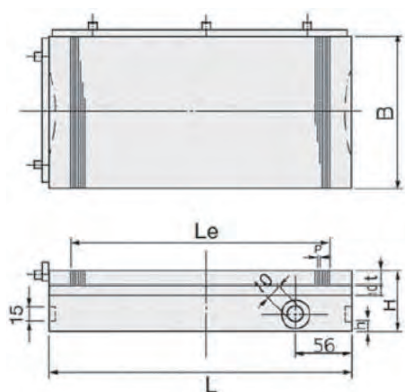
RECTANGULAR PERMANENT MAGNETIC CHUCKS



▲ STANDARD POLE

UNIT: mm

ITEM NO.	DIMENSION W x L x H	FACE PLATE			POLE PITCH P	BASE PLATE		WEIGHT (kgs)
		B	L1	Le		L2	H	
53100501	100 x 175 x 63	100	175	125	11.2 (1.6+2+1.6+6)	187	13	7.3
53100502	125 x 250 x 63	125	250	200		262		10.4
53100503	150 x 300 x 63	150	300	246		312		15.1
53100504	150 x 350 x 63		350	296		362		17.4
53100505	150 x 450 x 63		450	396		462		20.1
53100506	200 x 400 x 63	200	400	346		412		26.0
53100507	200 x 450 x 63		450	390		462		30.1
53100508	200 x 500 x 63		500	446		512		35.7
53100509	250 x 500 x 60	250	500	440		516		59



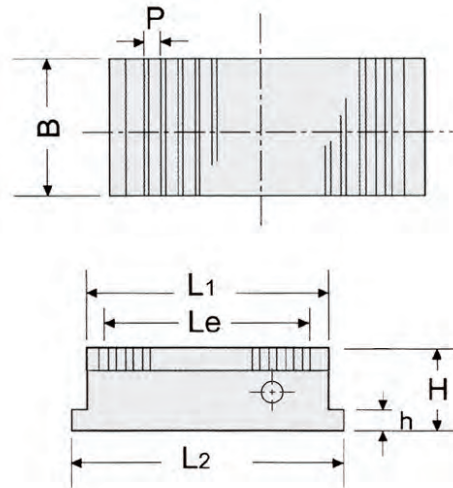
▲ FINE POLE

UNIT: mm

ITEM NO.	DIMENSION W x L x H	B	FACE PLATE			POLE PITCH P	BASE PLATE			WEIGHT (kgs)
			L1	Le	t		B	L2	h	
53100511	100 x 175 x 52	100	175	125	18	2 (1+1)	100	175	10	7
53100512	125 x 250 x 52	125	250	205	18		125	250	12	9
53100513	150 x 150 x 52	150	150	110	18		150	150	12	12
53100514	150 x 300 x 58	150	300	246	18		150	300	12	20
53100515	150 x 350 x 58	150	350	296	18		150	350	12	24
53100575	150 x 400 x 58	150	400	346	18		150	400	12	27.5
53100516	150 x 450 x 58	150	450	390	18		150	450	12	31
53100517	200 x 400 x 58	200	400	346	18		200	400	12	37
53100518	200 x 450 x 58	200	450	390	18		200	450	12	41.5
53100519	200 x 500 x 60	200	500	446	18		200	500	12	46



RECTANGULAR PERMANENT MAGNETIC CHUCKS



▲ STANDARD POLE

UNIT: mm

ITEM NO.	DIMENSION W x L x H	FACE PLATE			POLE PITCH P	BASE PLATE		WEIGHT (kgs)
		B	L1	Le		L2	h	
53100501-1	100 x 175 x 65	100	175	128	11.2 (1.6+2+1.6+6)	195	13	8
53100501-2	100 x 300 x 65	100	300	246		320		13
53100502-1	125 x 250 x 65	125	250	196		270		14
53100502-2	150 x 150 x 65	150	150	106		170		10
53100503-1	150 x 300 x 65	150	300	246		320		19
53100504-1	150 x 350 x 65	150	350	296		370		22
53100504-2	150 x 400 x 65	150	400	346		420		26
53100505-1	150 x 450 x 65	150	450	396		470		29
53100505-2	200 x 200 x 65	200	200	150		220	20	17
53100505-3	200 x 300 x 65	200	300	246		320		26
53100506-1	200 x 400 x 65	200	400	346		420		34
53100507-1	200 x 450 x 65	200	450	390		470		38
53100508-1	200 x 500 x 65	200	500	446		520		43
53100508-2	200 x 600 x 65	200	600	446		620		51
53100508-3	250 x 250 x 65	250	250	196		270		27
53100508-4	250 x 300 x 65	250	300	246		320		32
53100508-5	250 x 400 x 65	250	400	346		420		34
53100509-1	250 x 500 x 65	250	500	446		520		53
53100509-2	300 x 300 x 75	300	300	246		320		44
53100509-3	300 x 400 x 75	300	400	346		420		59
53100509-4	300 x 500 x 75	300	500	446		520		74
53100510	300 x 600 x 75	300	600	543		620		88
53100510-1	300 x 900 x 75	300	900	834		920		132
53100510-2	400 x 400 x 75	400	400	346	11.2 (5.2+6)	420		79
53100510-3	400 x 500 x 75	400	500	446		520		98
53100510-4	400 x 600 x 75	400	600	543		620		117
53100510-5	400 x 800 x 75	400	800	733		820		156
53100510-6	400 x 1000 x 75	400	1000	935		1020		195



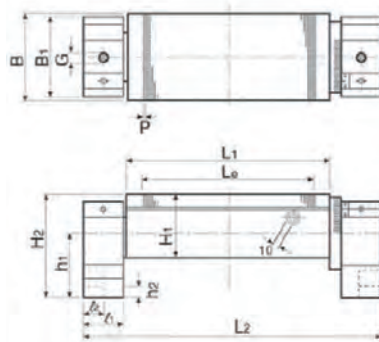
C5 - PERMANENT / ELE. MAGNETIC CHUCKS

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



INCLINABLE PERMANENT MAGNETIC CHUCKS



< STANDARD POLE:

UNIT: mm

															UNIT: mm
ITEM NO.	DIMENSION	B	FACE PLATE			LENGTH	POLE PITCH	BASE PLATE						WEIGHT	
	W x L x H		L1	Le	H1		P	B1	ℓ1	ℓ2	G	h1	h2	(kgs)	
53100520	100 x 175 x 145	100	125	125	78	125	11.2 (1.6+2+1.6+6)	100	50	25	14	103	50	17.5	
53100521	125 x 250 x 145	250	250	200	78	200								24.5	
53100522	150 x 300 x 145	150	300	246	78	246								27.2	
53100523	150 x 350 x 145	150	350	296	78	296								30.4	
53100524	150 x 450 x 145	150	450	396	78	396								35.4	

< FINE POLE:

UNIT: mm

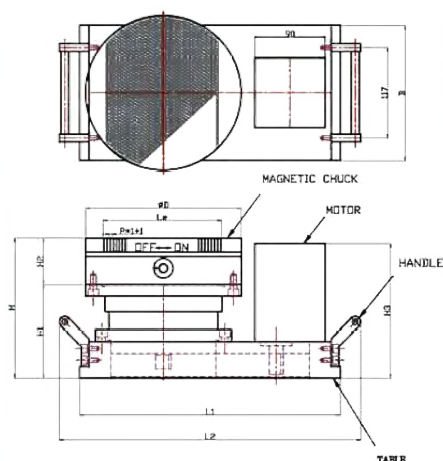
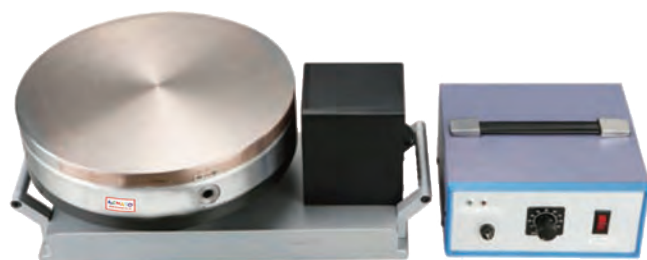
ITEM NO.	DIMENSION W x L x H	B	FACE PLATE			LENGTH Le	POLE PITCH P	BASE PLATE						WEIGHT (kgs)
			L1	Le	H1			B1	ℓ1	ℓ2	G	h1	h2	
53100525	100 x 175 x 145	100	175	125	78	293	2 (1+1)	100	50	25	14	103	50	17.5
53100526	125 x 250 x 145	125	250	200	78	368								24.5
53100527	150 x 300 x 145	150	300	246	78	418								27.2
53100528	150 x 350 x 145	150	350	246	78	468								30.4
53100529	150 x 450 x 145	150	450	396	78	568								35.4



CIRCULAR MAGNETIC CHUCKS ON TURNTABLE

FEATURES:

- For rotary grinding mount on surface grinding machine.
Rotary range 15-125 RPM.



UNIT: mm

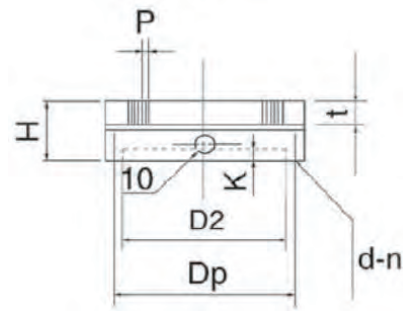
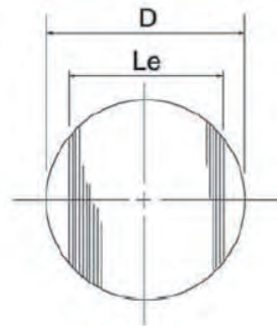
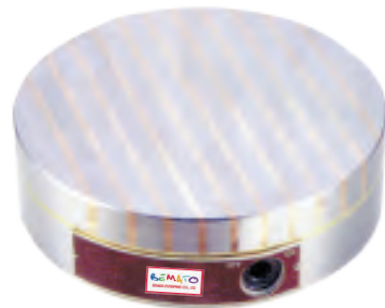
ITEM NO.	TOP PLATE			POWER SOURCE		DIMENSION					MASS (kgs)	TORQUE (kg/cm)
	ØD	Le	H2	VOLTAGE	POWER	B	L1	L2	H1	H3		
53100676	Ø160	115	58	1Phase AC	120W	175	335	387	122	180	39	4
53100677	Ø200	155	58			175	335	387	122	180	42	4
53100678	Ø250	205	58			175	410	462	122	183	53	8
53100679	Ø300	255	63	110V/ 220V	200W	175	410	462	137	183	66	8
53100680	Ø360	300	63			250	530	576	137	200	100	8
53100681	Ø400	340	63			250	530	576	137	200	120	8



ROUND PERMANENT MAGNETIC CHUCKS

APPLICATIONS:

- Ideal for vertical rotary grinders to grind small and thin workpiece.



< FINE POLE:

UNIT: mm

ITEM NO.	DIMENSION DIA	FACE PLATE D Le	POLE PITCH P	CHUCK BASE K Dp n d	FACE PLATE t	WEIGHT (kg)
53100682	ø100 x 58	100 67	2 (1+1)	2 76 3 M6	18	3.7
53100533	ø125 x 58	125 80		2 112 3 M6	18	6.2
53100534	ø160 x 58	160 115		2 140 4 M8	18	9.5
53100535	ø200 x 58	200 155		2 180 4 M8	18	15.0
53100536	ø250 x 58	250 205		2 224 4 M10	18	23.0
53100537	ø300 x 63	300 255		2 260 4 M10	18	36.0
53100683	ø360 x 63	360 300	4 (1+3)	3 320 4 M10	18	51.0
53100684	ø400 x 63	400 340		3 355 4 M10	18	64.0
53100685	ø500 x 65	500 440		4 400 8 M12	20	105.0
53100686	ø600 x 65	600 540		4 500 8 M12	20	147.0

< STANDARD POLE:

UNIT: mm

ITEM NO.	DIMENSION DIA	FACE PLATE D Le	POLE PITCH P	CHUCK BASE K Dp n d	FACE PLATE t	WEIGHT (kg)
53100538	ø125 x 58	125 80	11 (2+9)	2 112 3 M6	20	6.2
53100539	ø160 x 58	160 115		2 140 4 M8	20	9.5
53100540	ø200 x 58	200 155		2 180 4 M8	20	15.0
53100541	ø250 x 58	250 205	15 (3+12)	2 224 4 M10	20	23.0
53100542	ø300 x 58	300 255		2 260 4 M10	20	36.0
53100687	ø360 x 63	360 300	16 (4+12)	4 320 4 M10	20	51.0
53100688	ø400 x 63	400 340		4 355 4 M10	20	64.0
53100689	ø500 x 65	500 440		4 400 8 M12	20	105.0
53100690	ø600 x 65	600 540		4 500 8 M12	20	147.0

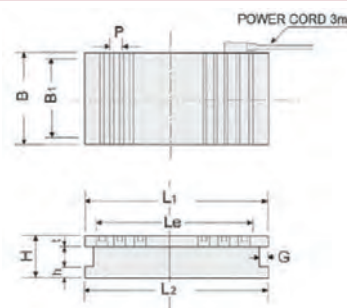


C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

RECTANGULAR ELECTRO-MAGNETIC CHUCKS

ADDITIONAL FEATURES:

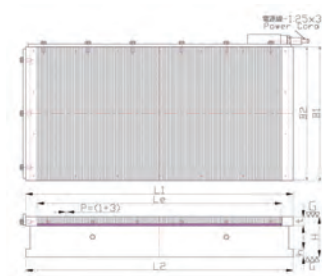
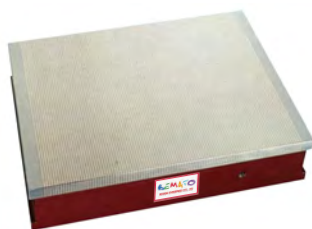
- Steel to stainless steel lamination.
- With constant room temperature of 15°C, the top plate remains very low deflection ± 0.002 mm for a continuous usage of 3 hours.
- Supply with 3M power cord.



< STANDARD POLE:

UNIT: mm

ITEM NO.	DIMENSION W x L x H	FACE PLATE				POLE PITCH P	CHUCK MOUNTING PART			FITTING HOLE G	VOLTAGE (DCV)	WEIGHT (kg)	CURRENT (A)
		B	L1	t	Le		B1	L2	h				
53100543	150 x 300 x 75	150	300	20	258	15 (3+12)	144	300	20	8	90	20	0.18
53100544	150 x 350 x 75	150	350	20	288		144	350	20	8	90	24	0.19
53100545	150 x 450 x 75	150	450	20	408		144	450	20	8	90	30	0.19
53100546	200 x 400 x 75	200	400	20	348		194	400	20	8	90	38	0.28
53100547	200 x 450 x 75	200	450	20	408		194	465	20	8	90	41	0.28
53100548	200 x 500 x 75	200	500	20	438		194	500	20	8	90	45	0.36
53100549	250 x 500 x 75	250	500	20	438		240	500	20	8	90	65	0.46
53100550	300 x 600 x 75	300	600	20	528		290	600	20	8	90	81	0.86
53100551	300 x 700 x 75	300	700	20	648		290	700	20	8	90	93	0.81
53100552	300 x 900 x 75	300	900	20	828		290	900	20	8	90	125	1.05
53100553	400 x 600 x 85	400	600	25	548	19 (3+16)	390	600	20	8	90	130	0.95
53100554	400 x 700 x 85	400	700	25	624		390	700	20	8	90	151	1.21
53100555	400 x 800 x 85	400	800	25	736		390	800	20	8	90	174	1.31
53100556	400 x 1000 x 85	400	1000	25	924		390	1000	20	8	90	221	1.33
53100557	500 x 1000 x 85	500	1000	25	924		490	1000	20	15	90	270	1.46
53100558	500 x 1500 x 85	500	1500	25	1450		490	1500	20	8	90	405	3.37
53100559	600 x 1000 x 85	600	1000	25	924		590	1000	20	15	90	330	2.80
53100560	600 x 1500 x 85	600	1500	25	1450		590	1500	20	8	90	495	2.85
53100561	800 x 1000 x 85	800	1000	25	924		790	1000	20	8	90	440	3.80



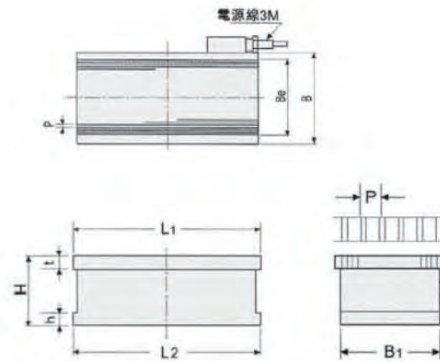
< FINE POLE:

UNIT: mm

ITEM NO.	DIMENSION	TOP PLATE				BOTTOM PLATE			HEIGHT H	VOLTAGE (VDC)	CURRENT (A)	WEIGHT (KG)
		B1	L1	Le	t	B2	L2	h				
53100562	150 x 300	150	300	253	20	150	300		85	90	0.30	28
53100563	150 x 350	150	350	310	20	150	350				0.36	33
53100691	150 x 400	150	400	349	20	150	400				0.44	48
53100564	150 x 450	150	450	401	20	150	450				0.57	54
53100565	200 x 400	200	400	349	20	200	400				0.61	51
53100566	200 x 450	200	450	401	20	200	450				0.71	58
53100567	200 x 500	200	500	449	20	200	500				0.93	64
53100568	250 x 500	250	500	449	20	250	500	20			1.09	80
53100569	300 x 600	300	600	549	20	296	600				1.05	115
53100692	300 x 700	300	700	649	20	296	700				1.11	134
53100695	400 x 600	400	600	549	25	396	600		90	90	1.45	162
53100693	400 x 800	400	800	749	25	396	800				2.10	216
53100694	400 x 1000	400	1000	949	25	396	1000				2.35	270
53100696	500 x 750	500	750	697	25	496	750				2.50	254
53100697	700 x 1000	700	1000	949	25	696	1000				4.98	473
53100698	800 x 1000	800	1000	949	25	796	1000				6.78	540



RECTANGULAR ELECTRO-MAGNETIC CHUCKS- LONGITUDINAL POLE SPACING



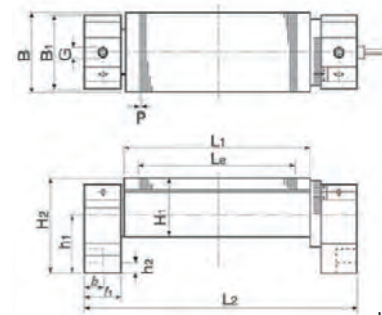
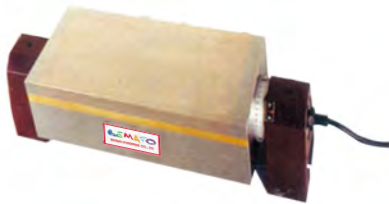
< FINE POLE:

ITEM NO.	DIMENSION W x L x H	FACE PLATE				POLE PITCH P	CHUCK MOUNTING PART			VOLTAGE (DCV)	WEIGHT (kgs)	CURRENT (A)
		B	L1	t	Be		B1	L2	h			
53100570	150 x 300 x 110	150	300	20	125	4 (1+3)	148	300	20	90	33	0.39
53100571	150 x 350 x 110	150	350	20	125		148	350	20	90	38	0.52
53100572	150 x 450 x 110	150	450	20	125		148	450	20	90	48	0.60
53100573	200 x 400 x 110	200	400	20	173		198	400	20	90	57	0.69
53100574	200 x 450 x 110	200	450	20	173		198	450	20	90	64	0.90
53100575	200 x 500 x 110	200	500	20	173		198	500	20	90	72	1.01
53100576	200 x 600 x 110	200	600	20	173		198	600	20	90	86	1.31
53100577	250 x 400 x 110	250	400	20	225		248	400	20	90	72	1.00
53100578	250 x 450 x 110	250	450	20	225		248	450	20	90	81	1.10
53100579	250 x 500 x 110	250	500	20	225		248	500	20	90	90	1.33
53100580	300 x 600 x 110	300	600	20	273		298	600	20	90	129	1.52

UNIT: mm



INCLINABLE ELECTRO-MAGNETIC CHUCKS



< FINE POLE:

ITEM NO.	DIMENSION W x L x H	FACE PLATE				LENGTH L2	POLE PITCH P	ROTARY BASE						WEIGHT (kgs)	VOLTAGE (DCV)	CURRENT (A)
		B	L1	Le	H1			B1	ℓ1	ℓ2	G	h1	h2			
53100581	150 x 300 x 136	150	300	256	100	418	4 (1+3)	100	50	25	14	90	15	37	90	1.51
53100582	150 x 350 x 136	150	350	304	100	468		100	50	25	14	90	15	41	90	1.60
53100583	150 x 450 x 136	150	450	403	100	568		100	50	25	14	90	15	51	90	1.65
53100584	200 x 500 x 168	200	500	457	100	618		100	50	25	14	120	15	76	90	1.80
53100585	200 x 600 x 168	200	600	553	100	718		100	50	25	14	120	15	89	90	1.90

UNIT: mm

< STANDARD POLE:

ITEM NO.	DIMENSION W x L x H	FACE PLATE				LENGTH L2	POLE PITCH P	ROTARY BASE						WEIGHT (kgs)	VOLTAGE (DCV)	CURRENT (A)
		B	L1	Le	H1			B1	ℓ1	ℓ2	G	h1	h2			
53100586	100 x 300 x 136	100	300	258	100	418	15 (3+12)	95						23		0.20
53100587	125 x 250 x 136	125	250	198	100	368						90		24		0.18
53100588	150 x 300 x 136	150	300	258	100	418								37		0.20
53100589	150 x 350 x 136	150	350	288	100	468		100	50	25	14		15	41	90	0.25
53100590	150 x 450 x 136	150	450	408	100	568						120		51		0.30
53100591	200 x 500 x 168	200	500	438	100	618								76		0.40
53100592	200 x 600 x 168	200	600	528	100	718								89		0.50

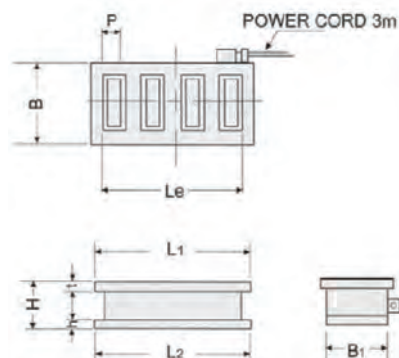
UNIT: mm



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



RECTANGULAR ELECTRO-MAGNETIC CHUCKS -WITH INCREASED MAGNETIC POWER FOR HEAVY MACHINING



< STANDARD POLE:

UNIT: mm

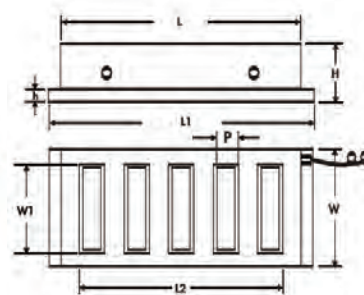
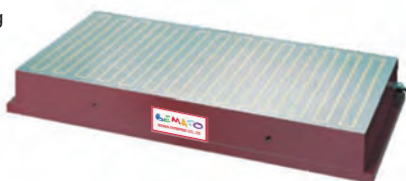
ITEM NO.	DIMENSION W x L x H	FACE PLATE B L1 Le t	POLE PITCH P1	ROTARY BASE B1 L2 h	VOLTAGE (DCV)	WEIGHT (kgs)	CURRENT (A)
53100593	200 x 500 x 120	200 500 437 20	35 (8+27)	200 550 20	90	79	1.28
53100594	200 x 600 x 120	200 600 533 20		200 650 20	90	94	1.97
53100595	200 x 800 x 120	200 800 743 20		200 850 20	90	125	2.72
53100596	250 x 500 x 120	250 500 437 20		250 550 20	90	98	1.82
53100597	250 x 600 x 120	250 600 533 20		250 650 20	90	117	2.18
53100598	300 x 600 x 120	300 600 533 20		300 650 20	90	140	2.44
53100599	300 x 900 x 120	300 900 854 20		300 950 20	90	210	3.56
53100600	400 x 800 x 120	400 800 743 20		400 850 20	90	250	4.40
53100601	400 x 1000 x 120	400 1000 931 20		400 1050 20	90	315	5.0
53100602	500 x 1000 x 125	500 1000 931 20		500 1050 25	90	400	6.01
53100603	500 x 1500 x 125	500 1500 1443 20		500 1550 25	90	600	10.40
53100604	600 x 1000 x 125	600 1000 931 20		600 1050 25	90	480	7.40
53100605	600 x 1500 x 125	600 1500 1443 20		600 1550 25	90	735	10.70

PURPOSE:

- It is most suitable for heavy cutting of the milling machine, shaper and molded machine. It can show strong suction force especially for thick workpieces and high speed cutting.

FEATURES:

- For temperature rising quality control and to extend the life of the magnetic plate.



< STANDARD POLE:

UNIT: mm

ITEM NO.	DIMENSION W x L x H	POLE PITCH P	BOTTOM PLATE W L2 h	VOLTAGE (V)	WEIGHT (kgs)
53100606	200 x 400 x 110	23 (6+7)	200 450 20	DC 60-90	62
53100607	200 x 500 x 110	23 (6+7)	200 550 20		78
53100608	250 x 500 x 110	23 (6+7)	250 550 20		98
53100609	300 x 600 x 110	23 (6+7)	300 650 20		140
53100610	300 x 900 x 110	27 (8+19)	300 950 23		219
53100611	400 x 800 x 120	27 (8+19)	400 850 23		260
53100612	400 x 1000 x 120	30 (8+22)	400 1050 23		325
53100613	500 x 1000 x 120	30 (8+22)	500 1050 23		416
53100614	500 x 1200 x 120	32 (8+24)	500 1250 23		499
53100615	500 x 1500 x 120	34 (8+26)	500 1550 25		633
53100616	600 x 1000 x 120	30 (8+22)	600 1050 23		507
53100617	600 x 1200 x 120	32 (8+24)	600 1250 23		608
53100618	600 x 1500 x 120	34 (8+26)	600 1550 25		760



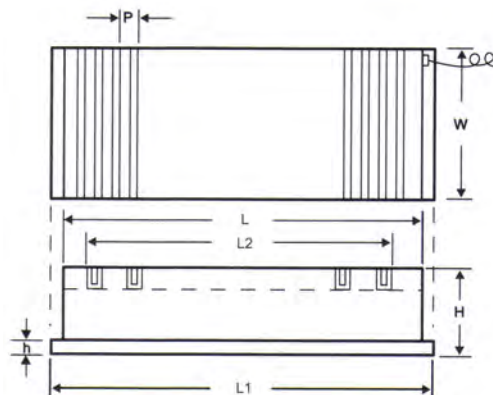
POWERFUL WAVEFORM ELECTRO-MAGNETIC CHUCKS

Purpose:

- It is suitable to be used as heavy cutter part of the milling machine, planers, and other planer milling machines.

Features:

- For temperature rising quality control and to extend the life of the magnetic plate.

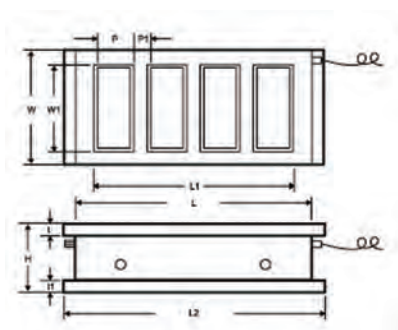


UNIT: mm

ITEM NO.	DIMENSION	FACE PLATE			POLE PITCH P	BOTTOM PLATE			HEIGHT H	VOLTAGE (V)	WEIGHT (kgs)
		W	L	L2		W	L1	h			
53100729	200 x 400	200	400	346	18 (4+14)	200	450	20	120	DC 60~90	62
53100730	200 x 500	200	500	441	19 (4+15)	200	550	20	120		78
53100731	250 x 500	250	500	441	19 (4+15)	250	550	20	120		98
53100732	250 x 1000	250	1000	944	20 (4+16)	250	1050	23	125		193
53100733	300 x 600	300	600	544	20 (4+16)	300	650	20	120		140
53100734	300 x 1000	300	1000	944	20 (4+16)	300	1050	23	125		231
53100735	400 x 800	400	800	739	21 (4+17)	400	850	23	125		260
53100736	400 x 1000	400	1000	944	20 (4+16)	400	1050	23	125		325
53100737	450 x 1000	450	1000	944	20 (4+16)	450	1050	23	125		346
53100738	500 x 1000	500	1000	944	20 (4+16)	500	1050	23	125		406



RECTANGULAR ELECTRO-MAGNETIC CHUCKS -WITH INCREASED MAGNETIC POWER FOR HEAVY MACHINING -COOLANT THRU FOR ELIMINATING TEMPERATURE RISE



STANDARD POLE:

UNIT: mm

ITEM NO.	DIMENSION W x L x H	FACE PLATE					POLE PITCH		BOTTOM PLATE			VOLTAGE (V)	WEIGHT (kgs)
		W	L	W1	L1	t	P	P1	W	L2	T1		
53100619	300 x 600 x 120	300	600	240	520	25	60	52	300	600	20	DC 60-90	140
53100620	400 x 800 x 120	400	800	340	718	28	58	50	400	800			266
53100621	500 x 1000 x 128	500	1000	430	917	28	65	55	500	1000	25		416
53100622	600 x 1000 x 128	600		530		28	65	55	600	1500			500
53100623	600 x 1500 x 128	600		530	1421	28	67	55					750



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



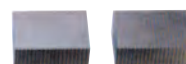
CHUCK BLOCKS FOR TRANSFERING MAGNETIC POWER



▲ ITEM NO. 53100632



▲ ITEM NO. 53100627



▲ ITEM NO. 53100624



▲ ITEM NO. 53100630



▲ ITEM NO. 53100631



▲ ITEM NO. 53100625



▲ ITEM NO. 53100628



▲ ITEM NO. 53100629



▲ ITEM NO. 53100626

- Uses as an auxiliary tool of magnetic chucks to hold plates or round bars which are difficult to hold by chuck along.
- Steel to steel lamination and copper brazed into one solid piece and precision ground.
- Blocks can be machined, drilled, tapped and cut to your desired specifications.

UNIT: mm			
ITEM NO.	DIMENSION W x L x H	P	WEIGHT (kgs)
53100624	70 x 100 x 40	5 (2+3)	4.7
53100625	45 x 72 x 22		1.2
53100626	60 x 65 x 40		1.9
53100631	75 x 150 x 25		2.2
53100628	75 x 300 x 25		4.4
53100629	75 x 150 x 25	2 (1+1)	2.2
53100630	75 x 300 x 25		4.4
53100627	75 x 150 x 25		2.2
53100632	75 x 300 x 25		4.4



VACUUM CHUCKS

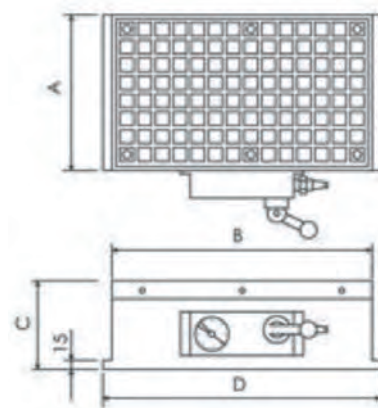
- The chuck apply for milling machine or grinding machine to process the surface and side.
- Change the chuck's size depend on the workpiece's size.
- No need air pump, just connect the air compressor then start the operation.
- Any workpiece can be done very well.
- Light metal, hard metal, plastics, ceramics, glass, aluminum alloy.

Start operation right away as combine



UNIT: mm

ITEM NO.	A W	B L	C H	D TOTAL-L	WEIGHT (kgs)	SUCTION (kgf)
53101090	150	150	60	180	4	135
53101091	150	300	60	330	16	270
53101092	300	300	100	330	45	540
53101093	300	400	100	430	48	720
53101094	300	450	105	480	56	810
53101095	300	600	60	630	69	1080
53101096	300	750	100	780	70	1350
53101097	200	200	100	230	15	240
53101098	200	400	100	430	35	480
53101099	400	400	100	430	52	960
53101100	400	600	100	630	77	1440
53101101	400	800	100	830	118	1920
53101102	400	1000	100	1030	130	2400
53101103	250	250	100	280	20	375
53101104	250	500	100	530	44	750
53101105	500	500	100	530	78	1500
53101106	500	750	100	780	95	2250
53101107	500	1000	100	1030	165	3000
53101108	500	1250	100	1280	178	3750
53101109	600	600	100	630	110	2160
53101110	600	900	100	930	140	3240



- Parallel angle: ± 0.01
- Material: S45C
- Product: dye black up/down grinding
- Plate: hot handling
- Fitting: Silicone strip $\phi 4 \times 10M$



C5 - PERMANENT / ELE. MAGNETIC CHUCKS

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



RECTIFIER & DEMAGNETIZER FOR ELECTRO-MAGNETIC CHUCKS

ITEM NO. 53100633

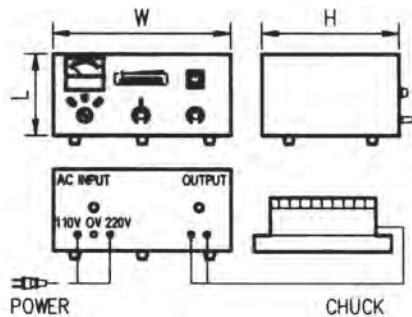


- FEATURES:**
- Suitable for standard type of electric magnetic chucks.
 - With current capacity of 5A-20A; demagnetizing time is 6-15 seconds.
 - Precisely adjust the magnetic force of electric magnetic chucks and indicate voltage with LED display.

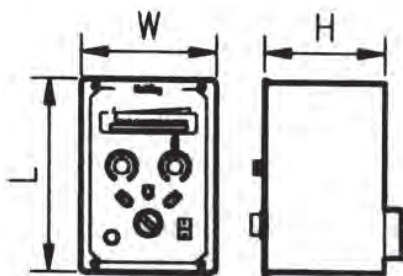
ITEM NO. 53100634~6

ITEM NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	CURRENT	DIMENSION			WEIGHT (kg)	COOLING FAN
				L	W	H		
53100633	AC 110V/220 V (single phase)	DC 0-100V	5A	200	137	122	3.5	OPTION
53100634	AC 110/220 V (single phase)	DC0-120V	10A	150	330	260	15	OPTION
53100635	AC 110/220 V (single phase)	DC 0-120V	15A	150	330	260	20	STANDARD
53100636	AC 110/220 V (single phase)	DC 0-120V	20A	180	385	295	32	STANDARD

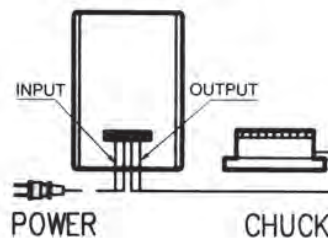
UNIT: mm



ITEM NO. 53100634~6



ITEM NO. 53100633





BAT TYPE DEMAGNETIZER



FEATURES:

- For demagnetizing drill cutting tool cutter and other tools such as slide calipers.
- For demagnetizing a part of large steel plate.
- Demagnetizer is turned on while pressing the push button switch and turned off when you release it.
- The button must be pressed on during demagnetizing operation.
- Turn it OFF when the demagnetizer is more than 100 mm away from the demagnetizing work.
- Working rate: 20 % ED (electrifying for 1 minute and pause for 4 minutes).

ITEM NO. 53100739

< SPECIFICATIONS:

UNIT: mm

ITEM NO.	INPUT VOLTAGE	CURRENT	DUTY CYCLE	DIMENSION			WEIGHT (kg)
				L	W	H	
53100739	110 V/220 V/1 PH	1.2 A	20% ED	345	35	25	1 kg



CIRCULAR TYPE DEMAGNETIZER



ITEM NO. 53100740

FEATURES:

- For demagnetizing drill, cutting tool, cutter and other tools such as slide calipers.
- Demagnetizer is turned on while pressing the push button switch and turned off when you release it.
- The button must be pressed on during demagnetizing operation.
- Turn it OFF when the demagnetizer is more than 100 mm away from the demagnetizing work.
- Working rate: 20 % ED (electrifying for 1 minute and pause for 4 minutes).

< SPECIFICATIONS:

UNIT: mm

ITEM NO.	INPUT VOLTAGE	CURRENT	DUTY CYCLE	RANGE OF DEMAGNETIZATION	WEIGHT (kg)
53100740	AC110 V/220 V/1 PH	0.8 A	20% ED	Ø40	0.9 kg



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



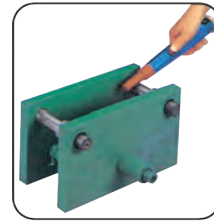
PEN TYPE DEMAGNETIZER

APPLICATIONS:

- Suitable for hole of mold and conductive part in demagnetize.
- Suitable for part of narrow, corner and hole of workpieces in demagnetize.
- Suitable for large clamping tools, workpiece in demagnetize .
- Suitable for cutter, drill, clamping tools and mold in conditions of setting on the machine in demagnetize.



▲ ITEM NO. 53100741 (charging type)



< SPECIFICATIONS:

UNIT: mm

ITEM NO.	DIMENSION	RANGE OF DEMAGNETIZATION	BATTERY CHARGE TIME	CHARGER (STANDARD ACCESSORY)	TEMPERATURE OF OPERATING SURROUNDING	NET WEIGHT
53100741	ø30 x 260	ø16 x 35	15 HRS	110 / 220V (50/60 DZ) DC3.7V250mA	80°C ↓	340 g



SUPER POWERFUL TYPE DEMAGNETIZER

FEATURES:

- Suitable for large production of component spare parts, attachments, tools, etc. for fixed way demagnetize.
- Performs powerful demagnetization for high speed steel, bearing steel.
- Demagnetized by standard demagnetizers since these steels have the property similar to magnetic steel which retains residual magnetism and is hard to remove.
- Thick workpiece can be demagnetized effectively by passing its front and rear sides over the demagnetizer.



▲ ITEM NO. 53100742

< SPECIFICATIONS:

UNIT: mm

ITEM NO.	INPUT VOLTAGE	CURRENT	DUTY CYCLE	DIMENSION			NET WEIGHT
				L	W	H	
53100742	AC220V / 380V / 3PH	8A	100% ED	335	585	135	40 kgs



DEMAGNETIZERS

FEATURES:

- Equipped with signal lamp, ON-OFF switch and power cord.
- 110 V/220 V, single phase AC.

APPLICATIONS:

Easy to use, simply pass the workpiece to be demagnetized slowly over the demagnetizer. Effectively removes residual magnetism from dies, cutters, drills, punches, etc.



<ITEM NO. 53100743 (SUPER POWERFUL TYPE)

FEATURES:

- Suitable for large production of component spare parts, attachments, tools, etc. for fixed way demagnetize.
- Performs powerful demagnetization for high speed steel, bearing steel.
- Demagnetized by standard demagnetizers since these steels have the property similar to magnetic steel which retains residual magnetism and is hard to remove.
- Thick workpiece can be demagnetized effectively by passing its front and rear sides over the demagnetizer.
- Input (v): AC220 / 380 / 3PH. Current (a): 10. duty cycle: 100% ED
- Dimension (L x W x H - mm): 335 x 585 x 285. N.W. (kgs): 69.5



<ITEM NO. 53100637

- Size: 83 x 123 x 83 mm (L x W x H)
- Surface area: 102 cm²
- Light & portable
- Ideal for large piece, molds dies, etc.
- Built-in thermal protector.
Power shut off automatically when unit is hot.
Restarts after temperature drops.
- Weight: 1.8 kgs



<ITEM NO. 53100638

- Size: 127 x 180 x 90 mm (L x W x H)
- Surface area: 229 cm²
- Duty cycle: 20min. ON/20min. OFF
- Built-in thermal protector.
Power shut off automatically when unit is hot.
Restarts after temperature drops.
- Weight: 4 kgs



<ITEM NO. 53100639

- Size: 150 x 200 x 100 mm (L x W x H)
- Surface area: 300 cm²
- Suitable for continuous application.
- Built-in cooling fan.
- Weight: 8.5 kgs



<ITEM NO. 53100640

- Size: 200 x 280 x 130 mm (L x W x H)
- Surface area: 550 cm²
- Suitable for continuous application.
- Weight: 15 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



TUNNEL TYPE DEMAGNETIZERS / MAGNETIZERS

FEATURES:

- Easy to use, simply pass the workpiece to be magnetized and demagnetized thru the tunnel. Efficiently removes residual magnetism from dies cutters drills, punches, etc. or magnetizes the pieces immediately.
- For arranging production line, simply incorporates with conveyor to raise production capacity.
- Built-in cooling fan.
- Special sizes available upon request.



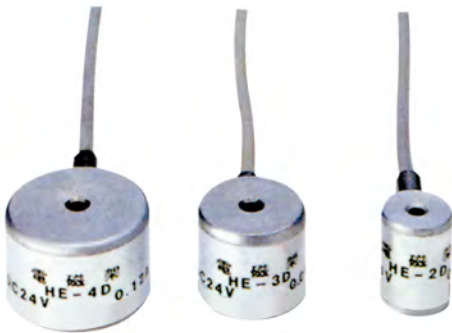
< STANDARD POLE:

UNIT: mm

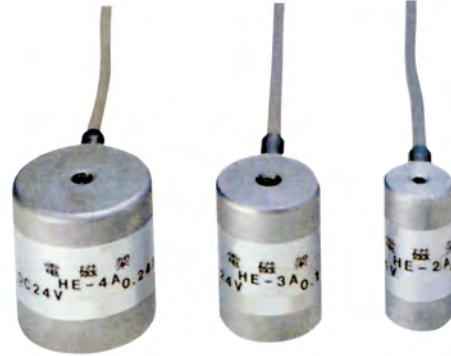
ITEM NO.	POWER SOURCE	CAPACITY	DUTY CYCLE	DIMENSION			RANGE OF DEMAGNETIZATION -GATE		WEIGHT (kgs)
				L	W	H	A	B	
53100641	AC 110V / 220V 1PH	3520 VA	100%	370	370	200	100	150	31 kgs
53100642		4840 VA		470	370	200	150	250	52 kgs
53100643	AC 220V / 380V 3PH	4400 VA		700	500	200	250	450	80 kgs



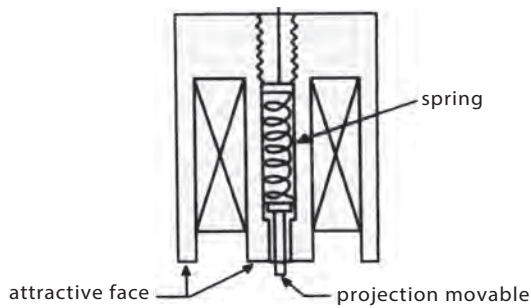
ELECTRO-MAGNETIC HOLDERS



▲ BUTTON TYPE



▲ POT TYPE



APPLICATIONS:

Suitable for material handling of small pieces on automatic press work to prevent workpiece from overlapping. It's also used for various automatic special purpose machines and industrial robots.

◀ ELECTRO-MAGNETIC HOLDER-POT TYPE:

UNIT: mm

ITEM NO.	DIMENSION	MAX' ATTRACTION	REAR CENTER HOLE	VOLTAGE	CURRENT (A)	APPLICABLE RECTIFIER	WEIGHT
53100646	ø20 x 40	28N (2.8 kgf)	M4 x 0.7 x 6	DC24 V	0.09	HES-102 T	50 kgs
53100647	ø30 x 40	200N (20 kgf)	M6 x 1.0 x 12		0.11		150 kgs
53100648	ø40 x 40	300N (30 kgf)			0.25		300 kgs
53100649	ø50 x 50	600N (60 kgf)	M8 x 1.25 x 15	DC90 V	0.21	HES-105 T	560 kgs
53100650	ø60 x 50	1200N (120 kgf)			0.38		1.0 kg
53100651	ø70 x 60	1300N (130 kgf)	M10 x 1.5 x 15		0.45		1.4 kgs
53100652	ø80 x 60	2400N (240 kgf)			0.62		1.7 kgs
53100653	ø90 x 60	3300N (330 kgf)			0.80		2.2 kgs

◀ ELECTRO-MAGNETIC HOLDER-BUTTON TYPE:

UNIT: mm

ITEM NO.	DIMENSION	MAX. ATTRACTION	REAR CENTER HOLE	VOLTAGE	CURRENT (A)	APPLICABLE RECTIFIER	WEIGHT
53100654	ø20 x 25	18N (1.8 kgf)	M4 x 8	DC24 V	0.07	HES-102 T	30 kgs
53100655	ø30 x 25	80N (8 kgf)	M6 x 12		0.44		150 kgs
53100656	ø40 x 25	220N (22 kgf)			0.37		190 kgs

◀ ELECTRO-MAGNETIC HOLDER-WITH AUTOMATIC RELEASE:

UNIT: mm

ITEM NO.	DIMENSION	MAX. ATTRACTION	REAR CENTER HOLE	VOLTAGE	CURRENT (A)	APPLICABLE RECTIFIER	WEIGHT
53100657	ø20 x 25	5N (0.5 kgf)	M4 x 8	DC24 V	0.07	HES-102 T	36 kgs
53100658	ø30 x 25	20N (3 kgf)	M6 x 12		0.44		100 kgs
53100659	ø40 x 25	110N (11 kgf)			0.37		150 kgs



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MAGNETIC DE-BURRING & POLISHING MACHINES



< ITEM NO. 53100744 (234 kgs)

UNIT: mm

ITEM NO.	DIMENSION (L×W×H)	TANK SIZE (L×W)	CONTAINER SIZE (Ø×H)	POWER
53101744	960 x 1000 x 1100	740 x 680	ø650 x 250	AC220V / 380V (50 HZ/60 HZ)

MAX. PROCESSING CAPACITY (REFERENCE VALUE)	CAPACITY	STANDARD ACCESSORIES
Copper \ stainless steel \ aluminum \ zinc (non-magnetic material)	12 kgs	1.Stainless pins/12 kgs(Standard Dimension) 2.Plastic container/2 sets 3.Separating container/1set
Iron \ steel \ stainless steel (magnetic material)	5 kgs	4.Magnetic sleeve/1set 5.Grinding liquid/233A(12,000c.c) 6.Operation manual



- Grinding magnetic field moves horizontally. Grinding without dead corners.
- Suitable for a long or large workpiece. Suitable for magnetic materials.

< ITEM NO. 53100745 (200 kgs)
Horizontal-mobile type

UNIT: mm

ITEM NO.	DIMENSION (L×W×H)	TANK SIZE (L×W)	POWER
53101745	910 x 640 x 1080	500 x 400	AC220V (50 HZ / 60 HZ)

MAX. PROCESSING CAPACITY (REFERENCE VALUE)	EFFECTIVE GRINDING AREA	STANDARD ACCESSORIES
Copper \ stainless steel \ aluminum \ zinc (non-magnetic material)	300×500 mm	1.Stainless pins/6 kgs (Standard Dimension) 2.Plastic container/2 sets 3.Separating container/1 set
Iron \ steel \ stainless steel (magnetic material)		4.Magnetic sleeve/1 set 5.Grinding liquid/233A (6,000c.c) 6.Operation manual



MAGNETIC DE-BURRING & POLISHING MACHINES



◀ ITEM NO. 53100746 (150 kgs)

UNIT: mm

ITEM NO.	DIMENSION (L × W × H)	TANK SIZE (L × W)	POWER
53100746	810 × 790 × 1070	600 × 540	AC220V (50 HZ/60 HZ)

MAX. PROCESSING CAPACITY (REFERENCE VALUE)	CAPACITY	STANDARD ACCESSORIES
Copper \ stainless steel \ aluminum \ zinc (non-magnetic material)	8 kgs	1.Stainless pins/6 kgs (Standard Dimension) 2.Plastic container/4 sets 3.Separating container/1set 4.Magnetic sleeve/1set
Iron \ steel \ stainless steel (magnetic material)	3 kgs	5.Grinding liquid/233A (6,000c.c) 6.Operation manual



◀ ITEM NO. 53100747 (100 kgs)

UNIT: mm

ITEM NO.	DIMENSION (L × W × H)	TANK SIZE (L × W)	POWER
53100747	560 × 630 × 1020	420 × 380	AC220V (50 HZ/60 HZ)

MAX. PROCESSING CAPACITY (REFERENCE VALUE)	CAPACITY	STANDARD ACCESSORIES
Copper \ stainless steel \ aluminum \ zinc (non-magnetic material)	3 kgs	1.Stainless pins/4 kgs (Standard Dimension) 2.Plastic container/4 sets 3.Separating container/1set 4.Magnetic sleeve/1set
Iron \ steel \ stainless steel (magnetic material)	1.5 kgs	5.Grinding liquid/233A (4,000c.c) 6.Operation manual



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



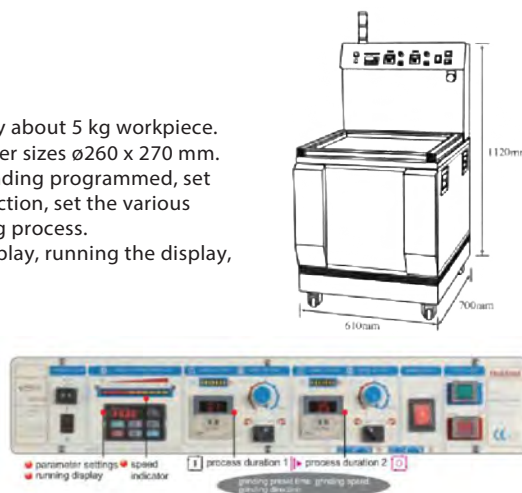
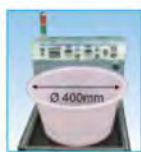
MAGNETIC DE-BURRING & POLISHING MACHINES

V ITEM NO. 53101064 (135 kgs)



FEATURES:

- Grinding capacity about 5 kg workpiece.
- Grinding container sizes $\phi 260 \times 270$ mm.
- Two kinds of grinding programmed, set speed, time, direction, set the various needs of grinding process.
- Grind setting display, running the display, setting.



UNIT: mm

ITEM NO.	DIMENSION (L x W x H)	CONTAINER SIZE (L x H)	POWER	WEIGHT
53101064	610 x 700 x 1120	$\phi 400 \times 300$	IPH AC 220V (50 HZ/60 HZ)	135 kgs
MAX. PROCESSING CAPACITY (REFERENCE VALUE)		CAPACITY	STANDARD ACCESSORIES	
Copper, stainless steel, aluminum, zinc (non-magnetic material)		5 kgs	1. Stainless pins/5 kgs (Standard Dimension) 2. Plastic container/2 set 3. Separating container/1set 4. Magnetic sleeve/1set 5. Grinding liquid/ (5,000c.c) 6. Operation manual	
Iron, steel, stainless steel (magnetic material)		2 kgs		



< ITEM NO. 53100750 (65 kgs)

UNIT: mm

ITEM NO.	DIMENSION (L x W x H)	TANK SIZE (L x W)	POWER
53100750	410 x 530 x 970	280 x 280	AC 220V (50 HZ/60 HZ)
MAX. PROCESSING CAPACITY (REFERENCE VALUE)		CAPACITY	STANDARD ACCESSORIES
Copper, stainless steel, aluminum, zinc (non-magnetic material)		1 kg	1. Stainless pins/2 kgs (Standard Dimension) 2. Plastic container/2 sets 3. Separating container/1set 4. Magnetic sleeve/1set 5. Grinding liquid/233A (2,000 c.c) 6. Operation manual
Iron, steel, stainless steel (magnetic material)		0.5 kg	



MAGNETIC DE-BURRING & POLISHING MACHINE



◀ ITEM NO. 53100748 (16 kgs)

UNIT: mm

ITEM NO.	DIMENSION (L×W×H)	TANK SIZE (L×W)	POWER
53100748	270 × 225 × 295	160 × 160	AC 110V/220V (50 HZ/60 HZ)

MAX. PROCESSING CAPACITY (REFERENCE VALUE)	CAPACITY	STANDARD ACCESSORIES
Copper, stainless steel, aluminum, zinc (non-magnetic material)	0.2 kg	1. Stainless pins/1 kg (Standard Dimension) 2. Plastic container/1 set 3. Separating container/1 set 4. Magnetic sleeve/1 set
Iron, steel, stainless steel (magnetic material)	—	5. Grinding liquid/233A (1,000c.c) 6. Operation manual



- Grinding magnetic field moves horizontally.
Grinding without dead corners.
- Suitable for a long or large workpiece.
Suitable for magnetic materials.

◀ ITEM NO. 53100749 (500 kgs)
Horizontal-mobile type

UNIT: mm

ITEM NO.	DIMENSION (L×W×H)	TANK SIZE (L×W)	CONTAINER SIZE (L×W)	POWER
53100749	1480 x 670 x 800	425 x 325	1000 x 430	AC 220 V (50 HZ/60 HZ)

MAX. PROCESSING CAPACITY (REFERENCE VALUE)	CAPACITY	STANDARD ACCESSORIES
Copper, stainless steel, aluminum, zinc (non-magnetic material)	300 x 900 mm	1. Stainless pins/12 kgs (Standard Dimension) 2. Plastic container/2 sets 3. Separating container/1set 4. Magnetic sleeve/1set
Iron, steel, stainless steel (magnetic material)		5. Grinding liquid/233A (12,000c.c) 6. Operation manual

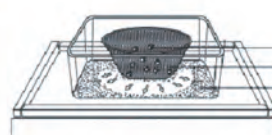
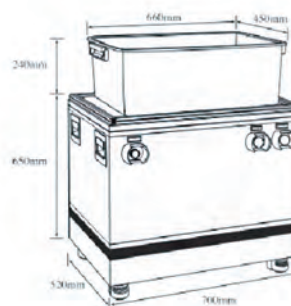


C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MAGNETIC PINS SEPARATOR

ITEM NO. 53101065 (74 kgs)



Workpiece separating
Container stainless
Steel pins

- After grinding machine, easily and quickly separate the stainless steel pins and workpiece. Further have the effect of cleaning the workpiece residues.
- Patented design, use of magnetic force to attract the needle down and quickly disengage the workpiece.

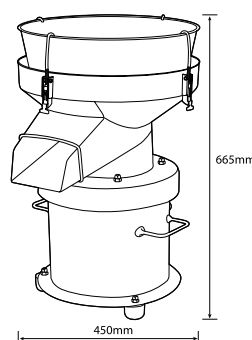
UNIT: mm

ITEM NO.	DIMENSION (L x W x H)	CONTAINER SIZE (L x H)	POWER	WEIGHT
53101065	700 x 520 x 650	600 x 450 x 240	Single phase AC 110V/200V 5A	74 kgs



VIBRATION SERARATOR

ITEM NO. 53100751 (44 kgs)



- Separating magnetic pins and workpiece.
- By vibrations and the different screen sizes, the pins can be quickly and easily separated from the workpiece.

UNIT: mm

ITEM NO.	SIZE	EFFECTIVE DIA. OF SIEVE	POWER
53100751	450 x 450 x 665	380	AC110V/220V



WITH SUFFICIENT CHOICE FOR OPTIONAL ACCESSORY- GRINDING MATERIAL: STAINLESS STEEL PINS (SUS304 MAGNETIC TREATMENT)

< STANDARD DIMENSION

UNIT: mm

NO	S1	S2	S3	S4	S5
SIZE (Ø × length)	Ø0.3 × 5	Ø0.4 × 5	Ø0.5 × 5	Ø0.7 × 5	Ø0.8 × 5

NO	S6	S7	S8	S9	S10
SIZE (Ø × length)	Ø1.0 × 5	Ø1.2 × 5	Ø1.5 × 5	Ø2.0 × 5	Ø2.5 × 5

< STANDARD DIMENSION

UNIT: mm

NO	P1	P2	P3	P4	P5
SIZE (Ø × length)	Ø0.2 × 5	Ø0.3 × 3	Ø0.4 × 3	Ø0.5 × 1	Ø0.5 × 3

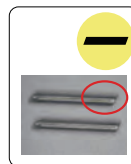
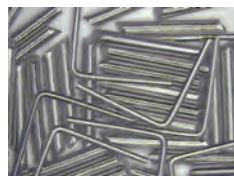
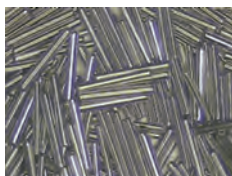
NO	P6	P7	P8	P9	P10
SIZE (Ø × length)	Ø0.7 × 3	Ø0.8 × 3	Ø1.0 × 1	Ø1.0 × 3	Ø1.2 × 3

< A SPECIAL CORNER ANGLE, L-STANDARD DIMENSION

UNIT: mm

NO 	A1	A2	A3	A4
SIZE (Ø × length)	Ø1.0 × 7 (45°)	Ø1.0 × 10 (45°)	Ø1.5 × 7 (45°)	Ø1.5 × 10 (45°)

NO 	L1	L2	L3	L4
SIZE (Ø × length)	Ø0.5 × 5 × 5	Ø0.5 × 7 × 7	Ø0.7 × 5 × 5	Ø0.7 × 7 × 7



STRONG ENVIRONMENTAL PROTECTION, POLISHED, CLEANED, ANTI-DISCOLORATION SLURRY (GRINDING LIQUID)



- The function of liquid 233A: Prevent rust, polishing, cooling and cleaning.
- The slurry is applied continuously for grinding about 90 minutes, and then the temperature will reach 70°C, please notice to replace in turn.
- If the surface contains too much oil, add an additional detergent for cleaning effect.
- The slurry is attached with composition and safety data sheets, ROHS certification, and is compliance with environmental emission standards.

ITEM NO.	MODEL	THE MAIN WORKPIECE MATERIALS FOR APPLICATION
53100752	233A	Stainless steel, copper, aluminum, titanium category of non-magnetic materials (please dilute in 50 times of the water).
53100753	903	Iron, carbon-steel, etc. category of carbon-type magnetic material (The rusted material.)
53100754	KEROSENE LIGHT OIL DIESEL	Iron, carbon-steel, etc. category of carbon-type magnetic material (The rusted material.) • Please buy water-based oil by yourself.



C “ TOOLS FOR GRINDING MACHINES / WIRE EDM

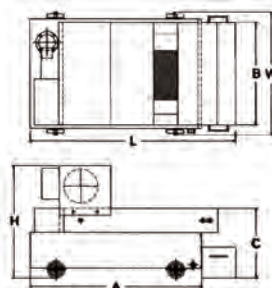


PAPER FILTERS



FEATURES:

- Applicable to both ferrous and non-ferrous metals.
- Filtration effect depends on paper accuracy.
Use 50 μ , 30 μ , or 15 μ .
- Not suitable for heavy machining for the sake of paper consumption.
- To save filtration material, use magnetic filter for rough filtration.
- Standard accessory : one roll of paper.



▲ ITEM NO. 53100759

UNIT: mm

ITEM NO.	DISPOSAL CAPACITY (L/min)	WATER TANK CAPACITY	L	A	B	C	W	H	PUMP (HP)	OUTLET	PAPER MOTOR	PAPER	REMARK
53100755	20	100	1050	850	600	400	720	660	1/8	PF1/2"	25W		
53100756	40	120	1200	1000	600	400	720	660	1/8	PF1/2"	25W	W : 500 mm L : 90 M	
53100757	60	140	1350	1150	600	400	720	660	1/8	PF1/2"	25W		W/ WHEEL
53100758	80	160	1500	1300	600	400	720	660	1/4	PF3/4"	25W		
53100759	120	210	1500	1300	800	400	920	740	1/2	PF3/4"	40W	W : 700 mm L : 90 M	
53100760	160	260	1800	1600	800	400	920	740	1/2	PF3/4"	40W		
53100761	240	440	1550	1350	1060	430	1330	740	1	PF1"	60W		
53100762	360	640	2150	1950	1060	430	1330	740	1	PF1"	60W	W : 1000 mm L : 90 M	W/O WHEEL
53100763	500	980	3240	2950	1060	430	1330	740	1X2	PF1"X2	60W		



MAGNETIC SEPARATORS

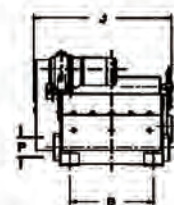
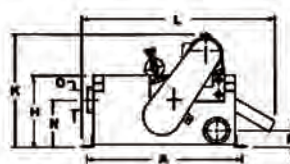
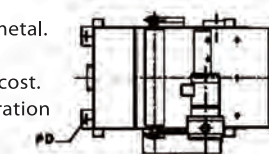


FEATURES:

- Suitable in heavy machining for ferrous metal.
- No filtration-material consumption.
- Most economic in purchase & utilization cost.
- Able to serve rough filtration in other filtration process.

Standard accessories :

- Chip collector 1PC
- Plugs 2PCS
- Elbow 1PC
- Steel tubes 3PCS



▲ ITEM NO. 53100772

UNIT: mm

ITEM NO.	DISPOSAL CAPACITY (L/min)	L	W	H	M	N	A	B	D	J	K	INLET O	OUTLET P	MOTOR
53100764	20	464	130	205	65	145	398	100	11	230	300	PF1/2"	PF1/2"	220V 3Ø,25W
53100765	40	464	150	205	65	145	398	120	11	250	300	PF2"	PF2"	220V 3Ø,25W
53100766	60	464	206	205	60	150	398	176	11	306	300	PF2"	PF2"	220V 3Ø,25W
53100767	80	464	242	205	60	150	398	212	11	342	300	PF2"	PF2-1/2"	220V 3Ø,25W
53100768	120	530	270	245	68	185	456	230	11	380	345	PF3"	PF3"	220V 3Ø,40W
53100769	160	530	354	245	68	185	456	314	11	464	345	PF3"	PF3"	220V 3Ø,40W
53100770	240	820	420	305	70	200	660	340	17	585	480	PF3"	PF3"	220V 3Ø,100W
53100771	360	820	620	305	80	200	660	540	17	785	480	PF4"	PF4"	220V 3Ø,100W
53100772	500	820	820	305	90	200	660	740	17	985	480	PF5"	PF5"	220V 3Ø,100W
53100773	800	820	1220	305	90	200	660	1140	17	1385	480	PF5"	PF5"	220V 3Ø,200W
53100774	1000	970	1520	405	110	285	810	1440	17	1685	580	PF6"	PF6"	220V 3Ø,200W



MAGNETIC SEPARATION & PAPER FILTERS

FEATURES:

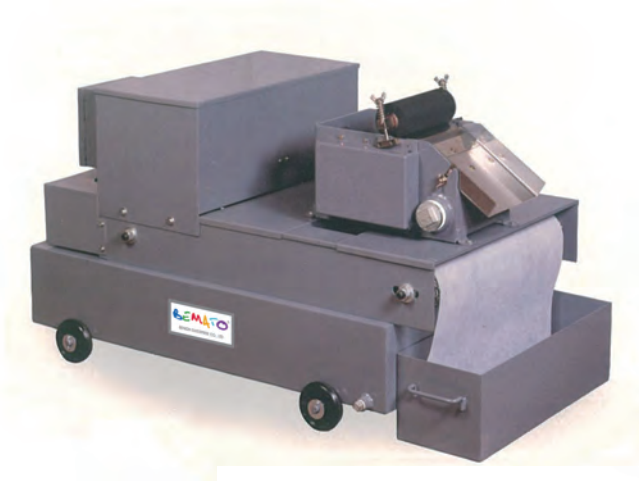
- Applicable to both ferrous and non-ferrous metals.
- Filtration effect depends on paper accuracy.
Use 50μ, 30μ, or 15μ.
- Rough filtration for chip in coolant with magnet and then fine filtration for impurities with paper will save the paper and upgrade filtration accuracy.

DIMENSION DIAGRAM:

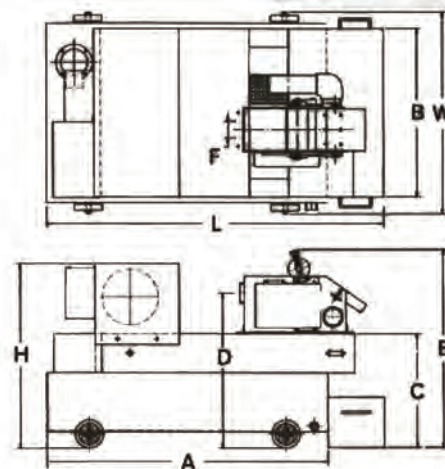
- Standard accessory: one roll paper 30μ.

APPLICABLE TO THE FOLLOWING WORKING MACHINES:

- Plane grinding machine. various
- Fine-grinding machine.
- Honing machine.
- Deep-hole drill.
- Internal/external cylinder grinder.
- Centerless grinder.
- Please specify the power voltage in your order list.
- Specifications are subject to change without notice.



< ITEM NO. 53100777



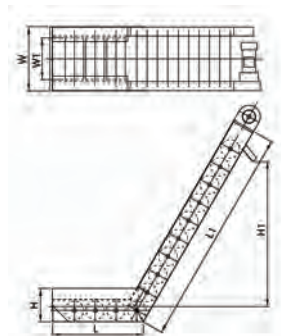
UNIT: mm

ITEM NO.	DISPOSAL CAPACITY (L/min)	WATER TANK CAPACITY	L	A	B	C	D	E	F	H	W	PUMP (HP)	PAPER MOTOR	PAPER	REMARK
53100775	20	100	1050	850	600	400	550	705	PF1-1/2"	660	720	1/8	PF1/2"	25W	
53100776	40	120	1200	1000	600	400	550	705	PF2"	660	720	1/8	PF1/2"	25W	W : 500 mm
53100777	60	140	1350	1150	600	400	555	705	PF2"	660	720	1/8	PF1/2"	25W	L : 90 M
53100778	80	160	1500	1300	600	400	555	705	PF2"	660	720	1/4	PF3/4"	25W	W/ WHEEL
53100779	120	210	1500	1300	800	400	590	750	PF3"	740	920	1/2	PF3/4"	40W	W : 700 mm
53100780	160	260	1800	1600	800	400	605	750	PF3"	740	920	1/2	PF3/4"	40W	L : 90 M
53100781	240	440	1550	1350	1060	430	640	915	PF3"	740	1330	1	PF1"	60W	
53100782	360	640	2150	1950	1060	430	640	915	PF4"	740	1330	1	PF1"	60W	W : 1000 mm
53100783	500	980	3240	2950	1060	430	640	915	PF5"	740	1330	1X2	PF1"X2	60W	L : 90 M
															W/O WHEEL

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



L-TYPE MAGNETIC ROLLING CONVEYORS



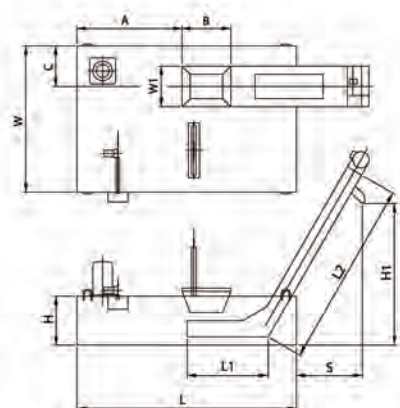
< SPECIFICATIONS:

UNIT: mm

ITEM NO.	SIZE	CAPACITY (L/min)	DIMENSION						WEIGHT (kgs)
			L	W	H	L1	W1	H1	
53100784	100	100	500	250	185	1150	900	200	110
53100785	200	200	735	250	185	1150	900	200	150
53100786	300	300	735	300	185	1150	900	250	195
53100787	400	400	980	350	185	1150	900	300	210



COOLANT SYSTEM WITH L-TYPE MAGNETIC ROLLER CONVEYORS



APPLICATION:

- Suitable for the removal of iron scraps on big size broaching machine, BTA deep hole drilling machine, machine centers and all kinds of machine tool, ect.
- Used for conveying the punch workpiece.
- Designed for removing and conveying the iron scraps of FC material workpiece.
- Models with different specifications and sizes can be custom-made.

< SPECIFICATIONS:

UNIT: mm

ITEM NO.	SIZE	CAPACITY (L/min)	BODY DIMENSION								TANK DIMENSION			TANK (L)	WEIGHT (kgs)
			W1	L1	L2	H1	A	B	C	S	W	L	H		
53100788	A1	100	250	499	1149	870	196	300	250	340	1350	900	300	290	350
53100789	A2	100	250	499	1149	870	646	300	250	340	900	1350	300	290	350
53100790	B1	200	250	735	1149	870	210	300	250	340	1525	1150	300	420	500
53100791	B2	200	250	735	1149	870	585	300	250	340	1150	1525	300	420	500
53100792	C1	300	300	735	1149	870	410	300	300	340	1800	1350	350	700	650
53100793	C2	300	300	735	1149	870	860	300	300	340	1350	1800	350	700	650
53100794	D1	400	350	971	1149	870	324	300	350	340	2150	1500	350	900	750
53100795	D2	400	350	971	1149	870	974	300	350	340	1500	2150	350	900	700



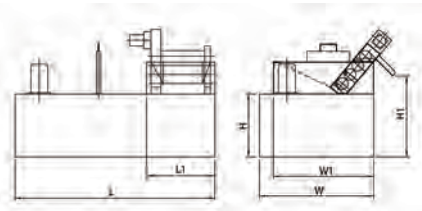
COOLANT TANK WITH MAGNETIC ROLLER CONVEYOR

ITEM NO. 53100798



APPLICATION:

- Suitable for machine centers, deep-hole drilling machine, etc.
- Designed for conveying the iron scraps of FC material workpieces.
- Capacity: Water-based lubrication coolant 120 L/min, Cutting oil 60 L/min.
- Models with different specifications and sizes can be custom-made.



SPECIFICATIONS:

UNIT: mm

ITEM NO.	CAPACITY (L/min)	DIMENSION						WEIGHT (kgs)
		L	W	H	L1	W1	H1	
53100798	120	1400	800	530	470	650	430	225



C8 - FILTERS



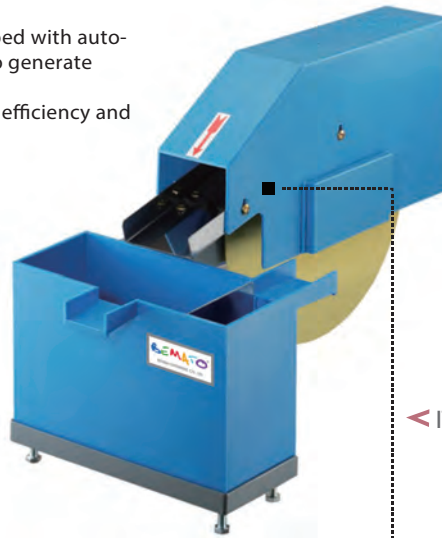
DISK TYPE OIL SKIMMERS

FEATURES:

- Prevent coolant corruption - machining center equipped with auto-lubrication system without recycling function tends to generate tramp oil and deteriorate coolant quality.
- Minimum maintenance cost for increasing processing efficiency and surface fineness of workpiece.

UNIT: mm

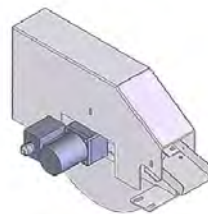
ITEM NO.	DISC DIA	DISC PROTRUDE
57104922	200	70
57104923	250	95
57104924	300	120
57104925	300	120
57104926	400	170
57104927	500	270



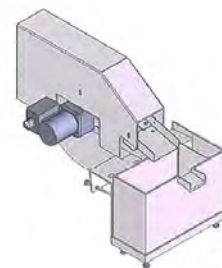
ITEM NO. 57104924



ITEM NO. 57104925



ITEM NO. 557104924A
LOCK TYPE



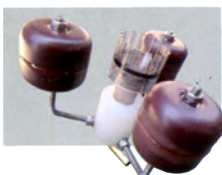
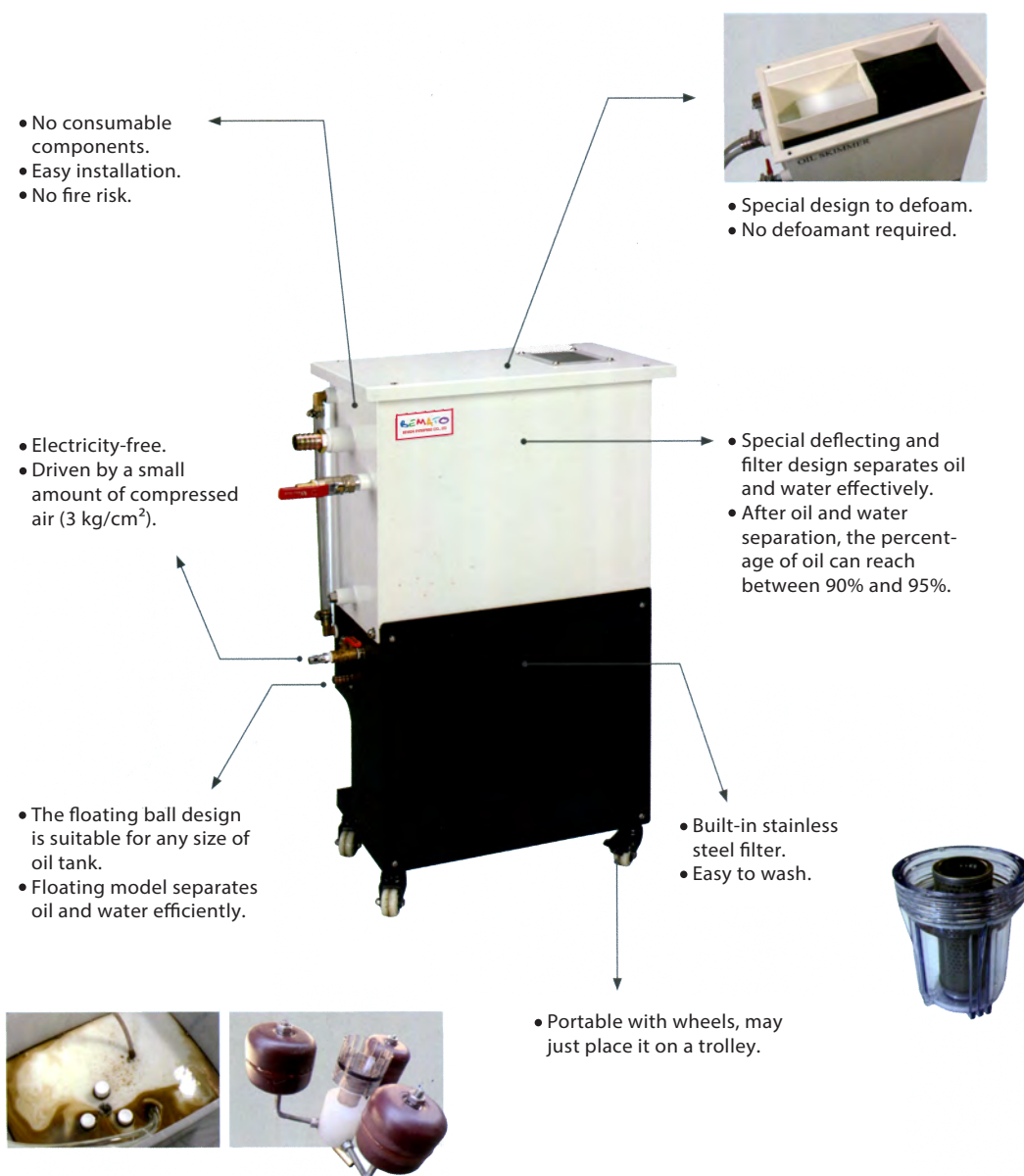
ITEM NO. 557104924
CLAMP TYPE

TOOLS FOR GRINDING MACHINES / WIRE EDM

C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



OIL SKIMMER-ELECTRICITY-FREE & PNEUMATICALLY OPERATED



ADVANTAGES OF 57105750

- Electricity free; power cost-saving; no public safety issue.
- No extra cost for any consumables.
- Efficiently removes impurities like carbon powder, aluminum powder, and etc.
- Significantly improves oil-water separation effectiveness.
- Effectively lowers germ growth within the cutting fluid.
- Saves you considerable costs for both waste oil treatment and cutting fluid replacement.

UNIT: mm

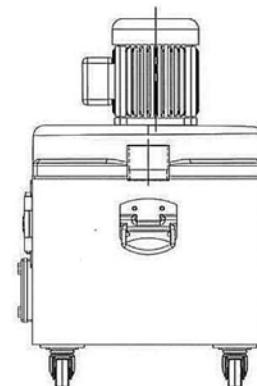
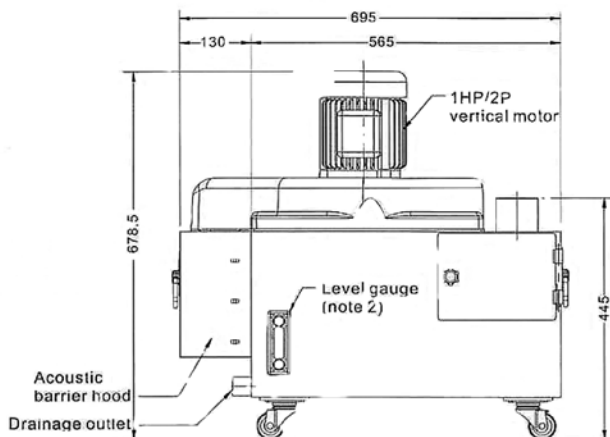
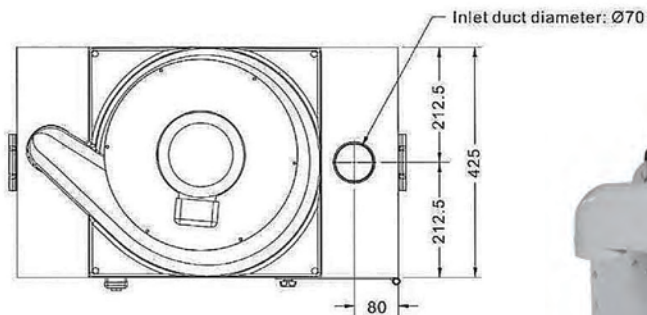
ITEM NO.	PROCESS FLOW RATE (L/Min)	CAPACITY (L)	N.W.	G.W.	DIMENSIONS (W x D x H)	PACKING DIMENSIONS (W x D x H)
57105750	18	33	31 kg / 68.2 lb	38 kg / 83.6 lb	510 x 260 x 780	875 x 520 x 300



DRY GRINDING DUST COLLECTORS

ITEM NO. 53101067 (MOTOR: 1HP)

DIMENSION (mm):



- Air-inlet speed: 29m/s(1HP)
Noise level: 68dB
Processing capacity: 5.6m³/min

- Standard equipment
 1. Inlet duct (2M) x1
 2. Inlet duct connector x1
 3. Inlet duct binder x2

- Note: The water level inside water tank shall not exceed the level gauge. If exceeding, drain out water from the drainage outlet.

- ITEM NO. 53101066 (MOTOR: 1/2HP)

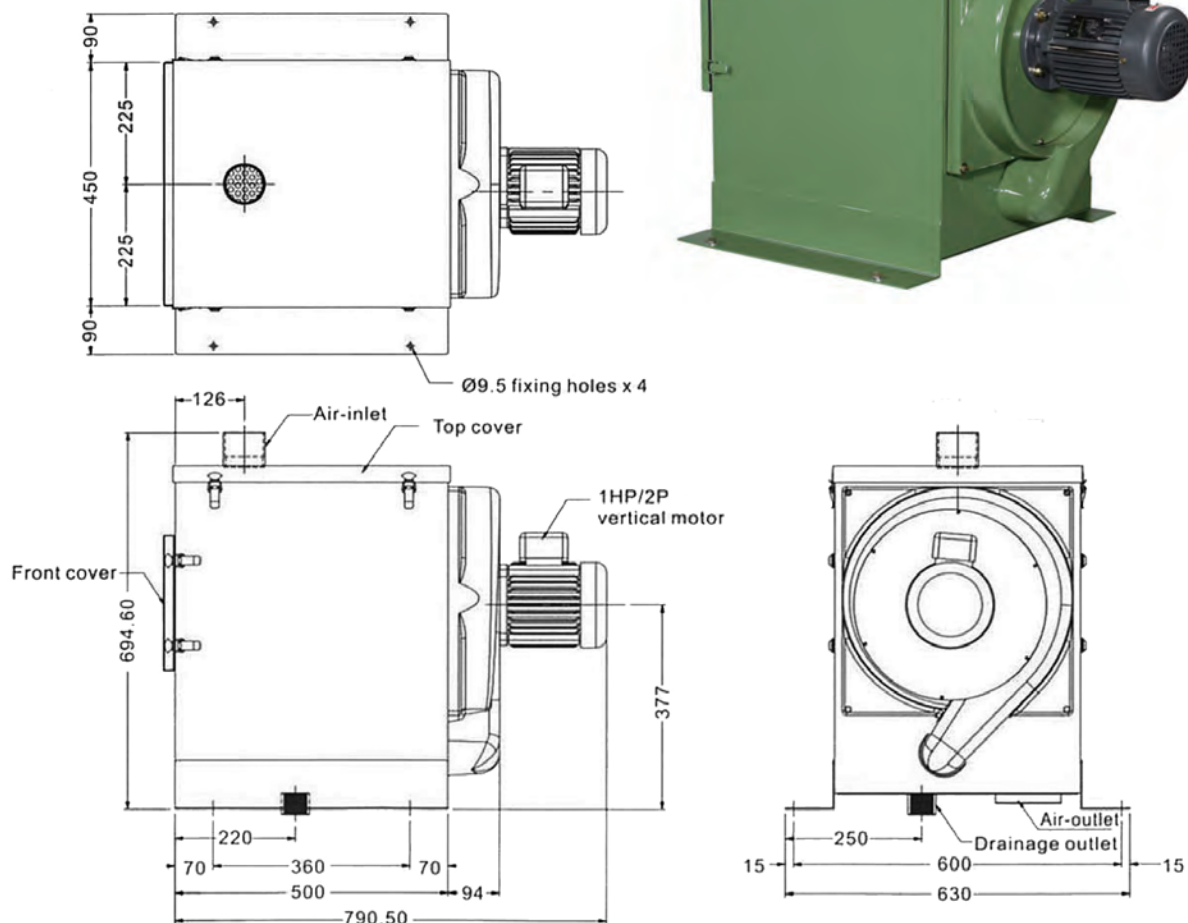
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



MIST COLLECTOR (TO COLLECT MASSIVE COOLANT)

✓ ITEM NO. 53101069 (MOTOR: 1HP)

DIMENSION (mm):



- Air-inlet speed: 22m/s (1HP)
Noise level: 69dB
Processing capacity: 5M³ /min

- Standard equipment:
 1. Inlet duct (2M) x1
 2. Inlet duct connector x1
 3. Inlet duct binder x2
 4. Standard footing x1
 5. Drainage outlet x1

- Note 1:
Footing can be customize (special part).
Note 2:
Drainage pipe assembly
1-1 /4" x 4" nipples
Drainage outlet thread x1

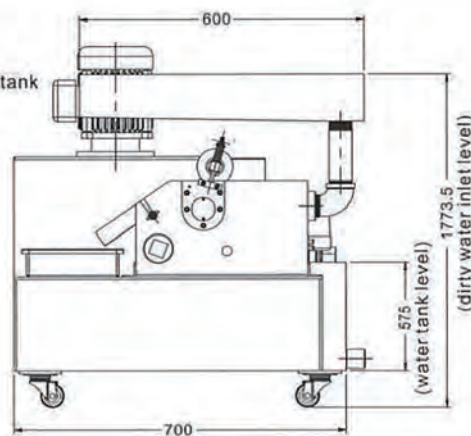
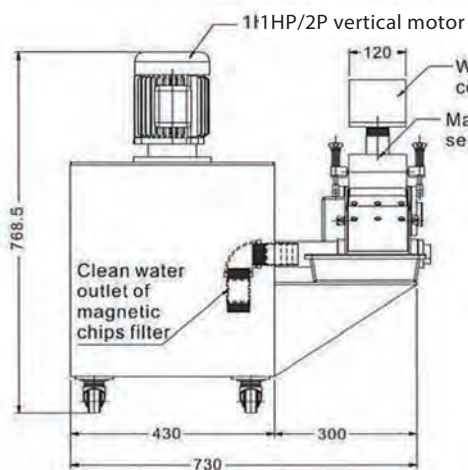
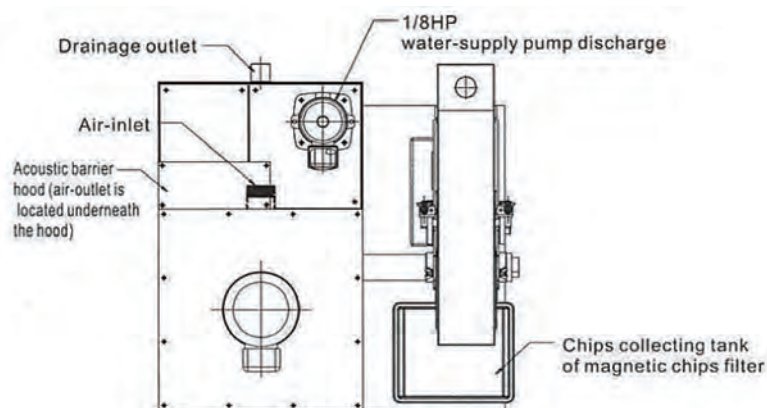
- ITEM NO. 53101068 (MOTOR: 1/2HP)



MIST COLLECTORS (53101069) + MAG. SEPARATORS & PAPER FILTERS (53100775~83)

DIMENSION (mm):

ITEM NO. 53101072
(53101069+53100777)



- Inlet air speed: 22m/s(1HP)
Noise level: 69dB
Processing capacity: 5M³/min
Water-storing capacity: 65L
- Water-supply pump: Power: 1/8HP
Flow rate: 20L/min
- Magnetic separator:
Processing capacity: 60L/min
Motor: 25W
- Standard equipment:
1. Inlet duct (2M) x1
2. Inlet duct connector x1
3. Inlet duct binder x2

• Note: Water-collecting tank can be customized (special part).

- ITEM NO.
53101070= 53101069+ 53100775
53101071= 53101069+ 53100776
53101072= 53101069+ 53100777
53101073= 53101069+ 53100778
53101074= 53101069+ 53100779
53101075= 53101069+ 53100780
53101076= 53101069+ 53100781
53101077= 53101069+ 53100782
53101078= 53101069+ 53100783



C8 - FILTERS

TOOLS FOR GRINDING MACHINES / WIRE EDM

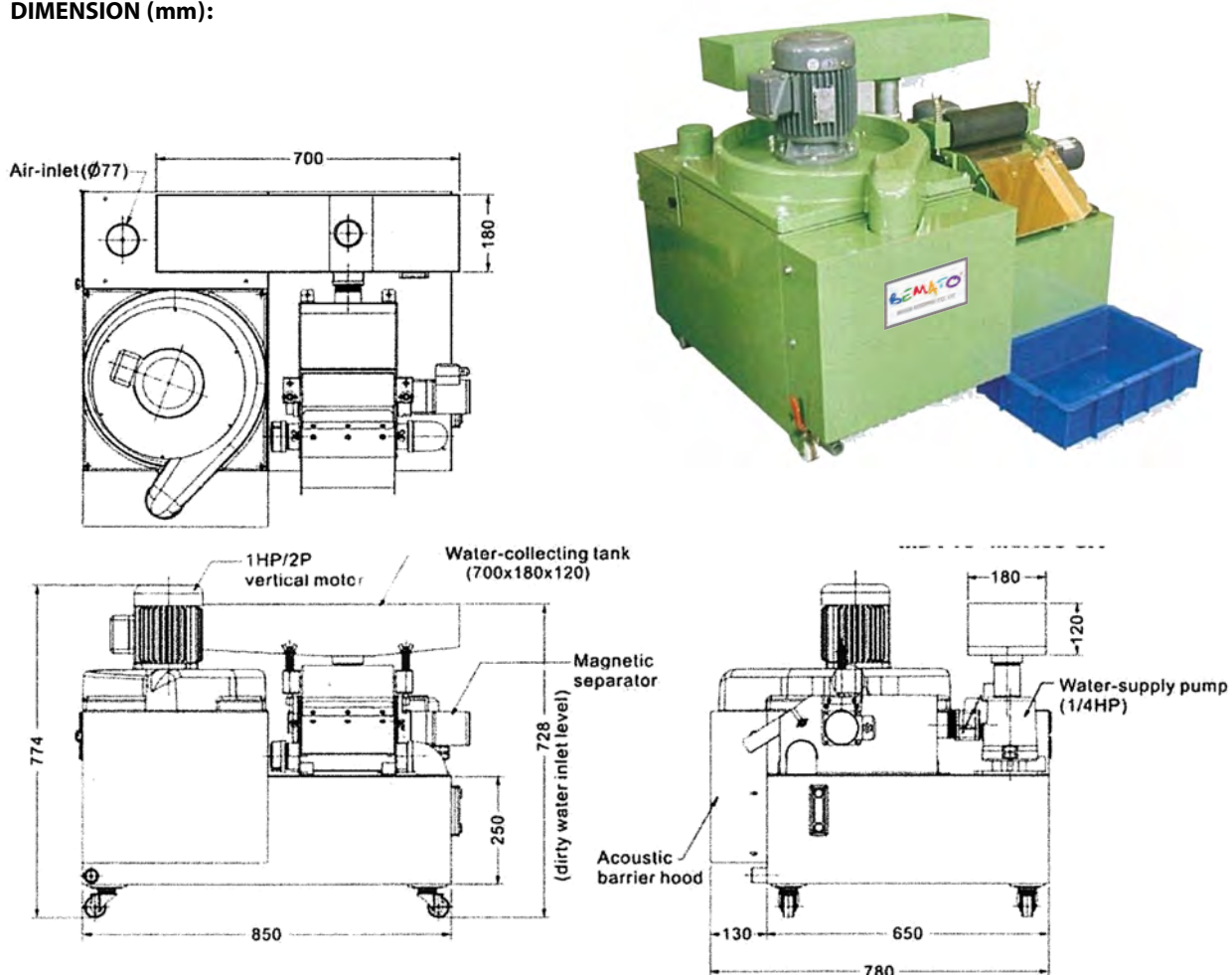
C “ TOOLS FOR GRINDING MACHINES / WIRE EDM



DUST & MIST COLLECTOR + SUPER MAGNETIC SEPARATORS

ITEM NO. 53101081

DIMENSION (mm):



- Inlet air speed: 29m/s (1HP)
Noise level: 68dB
Processing capacity: 5.6M³/min
Water-storing capacity: 120 L

- Standard equipment:
1. Inlet duct (2M) x1
2. Inlet duct connector x1
3. Inlet duct binder x2
4. Pump discharge pipe (2M) x1
5. Chip collecting tank x1

- ITEM NO.
53101079 (W/ 53100764)
53101080 (W/ 53100765)
53101081 (W/ 53100766)
53101082 (W/ 53100767)
53101083 (W/ 53100768)
53101084 (W/ 53100769)
53101085 (W/ 53100770)
53101086 (W/ 53100771)
53101087 (W/ 53100772)
53101088 (W/ 53100773)