Hardened Steel Square

Hardness : HRC50˚

Squares have accurate right angles both inside and outside. Made from a single piece of fully tool steel. Beams and blades are ground and accurately lapped for straightness and parallelism. Blades are beveled on both edges of each side. Beam is grooved at inner comer for clearance of burr and dirt. All squares are fully hardened . Packed in indiviual cartons. Accuracy 0.02mm.

※ Not for LAB

ORDER NO.	L x H x thick	NEW WEIGHT (KGS)	CODE NO.
SS-304	100X75X8MM	0.3	2006-050
SS-306	100X150X8MM	0.6	2006-051
SS-308	130X200X8MM	0.8	2006-052
SS-310	250X160X10MM	1.4	2006-053
SS-312	300X200X12MM	2.2	2006-054

Square

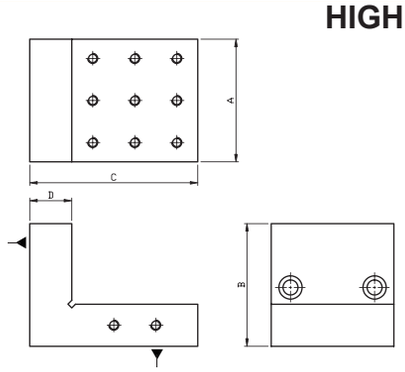
Alloysteel Grounded HRC50˚ ± 2

※ Not for LAB

ORDER NO.	LxHxthick	ACCURACY	WEIGHT(kg)	CODE.NO.
FS-204	100x75x6mm	0.02mm	0.2	2006-055
FS-206	150x100x6mm		0.3	2006-056
FS-208	200x130x6mm		0.5	2006-057

Precision Steel Angle Plate

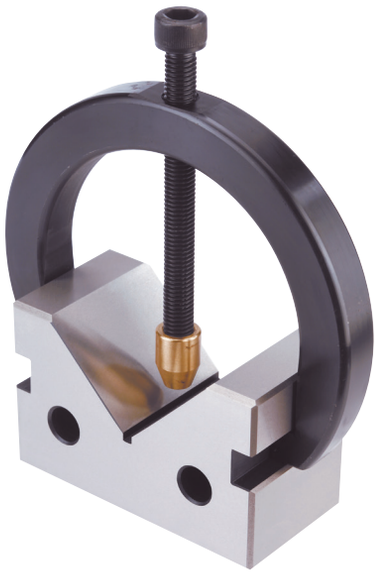
HIGH PRECISION TYPE



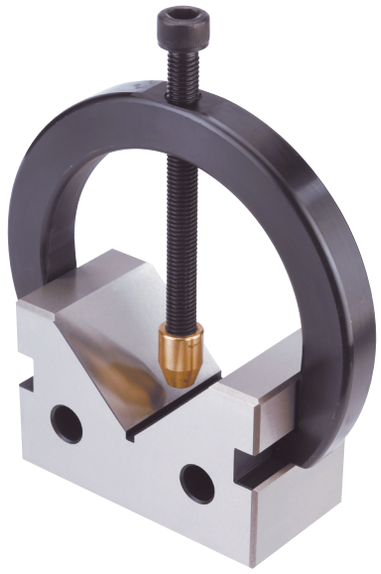
MATERIAL : YK30 ALLOY STEEL
ACCURACY : 0.005/100MM
HARDEN TREATMENT UP TO HRC 58º
※ Not for LAB

ORDER NO.	A	B	C	D	N.W (KGS)	CODE NO.
VRS-33	3″ 75	3″ 75	4″ 100	1″ 25	2.2	2006-060
VRS-44	4″ 100	4″ 100	4″ 100	1″ 25	3.7	2006-061
VRS-46	4″ 100	4″ 100	6″ 150	1″ 25	4.5	2006-062
VRS-85	8″ 200	120	8″ 200	40	14.3	2006-063
VRS-1206	12″ 300	6″ 150	12″ 300	2″ 50	32.3	2006-064

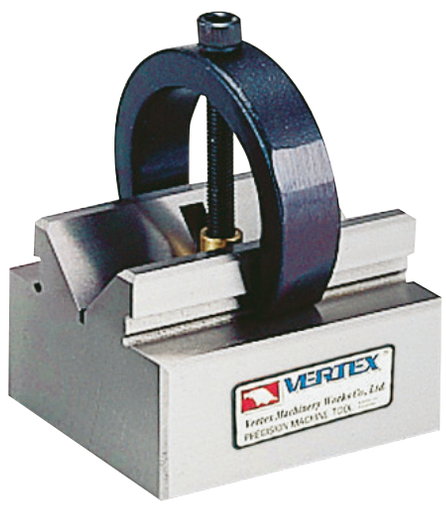
V-Block With Clamp



PAIRS
VBC-196
VBC-197



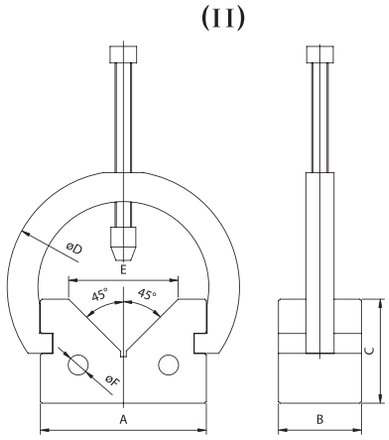
PAIRS
VBC-195



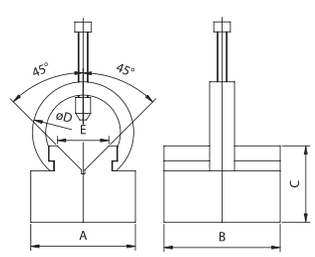
- Two V blocks and two clamps are include in the set.
- Made of hardened tool steel machined & ground in pairs close tolerances.
- A precision set for toolmakers & machinists.

※ Not for LAB

(II)



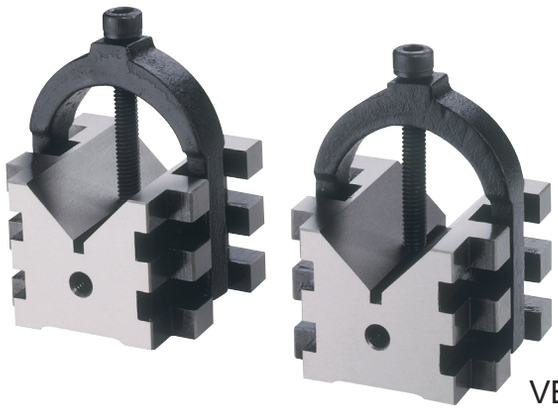
(I)



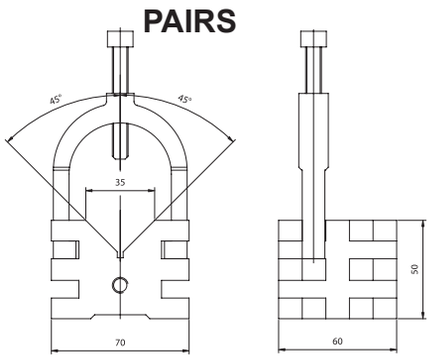
ORDER NO.		A	B	C	D	E	F	N.W. (kgs)	CODE.NO.
VBC-195	Ⅰ	63	70	46	61	31		3.1	2007-001
VBC-196	Ⅱ	100	50	63	140	66	12	5.9	2007-002
VBC-197	Ⅲ	150	64	100	193	110	12	14.7	2007-003

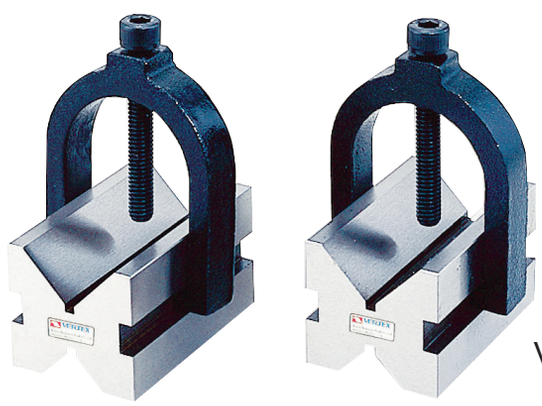
V-Block With Clamp

Alloysteel Grounded HRC50°

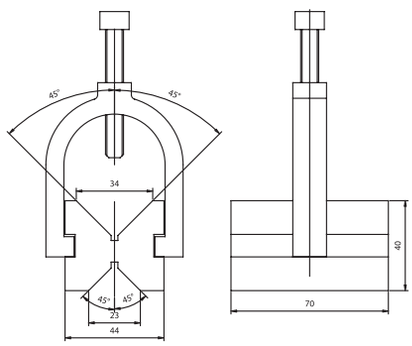


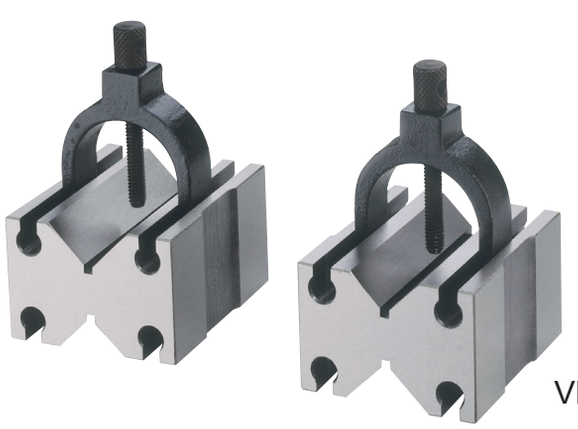
PAIRS
VBC-003



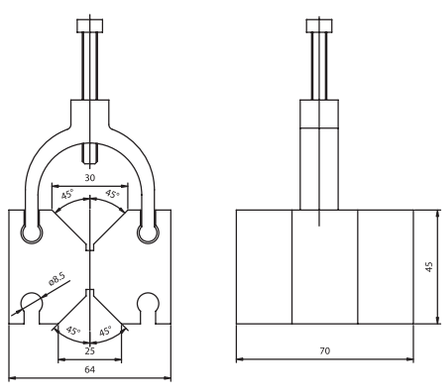


PAIRS
VBC-243

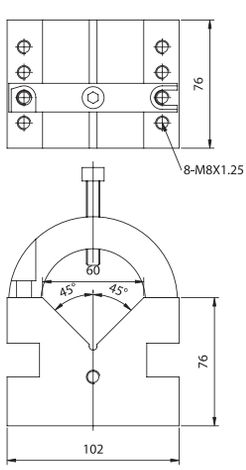




PAIRS
VBC-006



SINGLE
VBC-009



ORDER NO.	W	H	L	W.OF SMALL VEE	W.OF LARGER VEE	PACKING	G.W. (kgs)	CODE NO.
VBC-003	2.36 60mm	1.86 50mm	2.75 70mm	NON	V35 X V5.5	110x80x110mm	2.4	2007-010
VBC-243	2 3/4 70mm	1 3/4 45mm	1 5/8 42mm	NON	V32 X V3.5	75x80x100mm	1.9	2007-020
VBC-006	2 1/2 64mm	1 3/4 45mm	2 3/4 70mm	V25 X V3.5	V30 X V3.5	110x80x110mm	2.6	2007-030
VBC-009	4 102mm	3 76mm	3 76mm	NON	V59 X V4.5	70x50x110mm	3.9	2007-040

Tangimatic Dresser

ORDER NO.V-TDA CODE NO.2012-001

WEIGHT: 7 kgs

Small

凹 R:0-20
凸 R:0-5
Center:40.02 mm

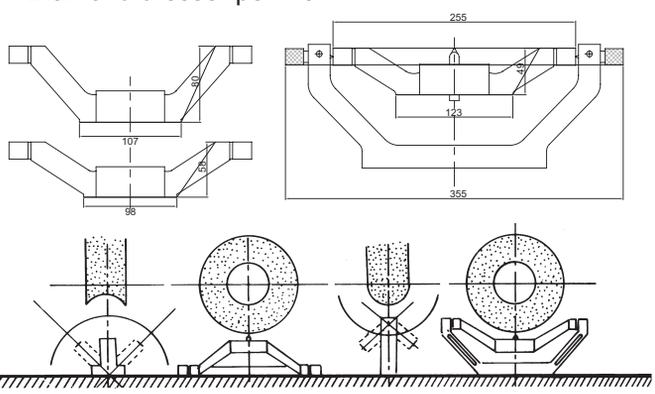
Mid

凹 R:20-45
凸 R:5-20
Center:53.88 mm

Big

凹 R:45-90
凸 R: 20-40
Center: 71.95 mm

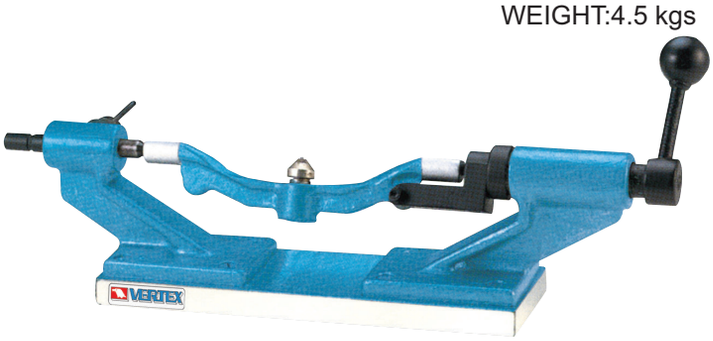
The dresser can be dressing any concave and convex of grinding wheel < Ø205 mm
Concave R: 0-40R (mm)
Convex R: 0-90R (mm)
Max. wheel DIA.: 8″(200 mm)
Diamond dresser pen 10 mm

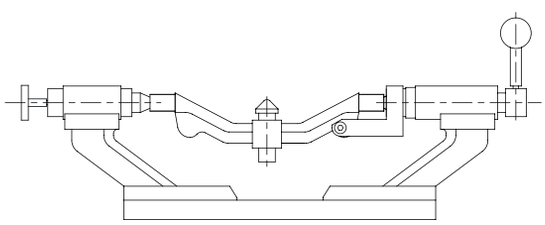


Tangimatic Dresser Handy Type

ORDER NO.V-TDH CODE NO.2012-002

WEIGHT:4.5 kgs



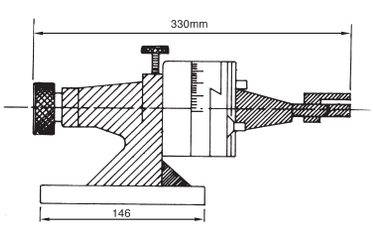


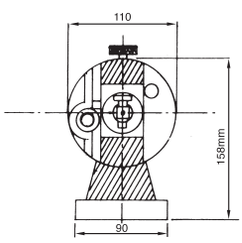
The dresser can be dressing any concave and convex of grinding wheel
Convex R: 0.2-20 (mm)
Concave R: 0.2-25 (mm)
For wheel <Ø205 mm

Radius And Angle Dresser

ORDER NO.V-TDB CODE NO.2012-010

WEIGHT:11.5 kgs





Convex dressing range: 0.8R-40R
Concave dressing range: 0-40R
Max. wheel dressing diameter: 250 mm
Max. wheel extending diameter: 375 mm

- Positive setting of the diamond to absolute center with the special gage included with the dresser.
- Simple, fast, accurate radius setting; no height gage or other set-up aids required. Radius is set on the grinder by measuring over the two pins or by inserting a gage block, as shown, for direct reading. Inside or outside radius is determined simply by sliding the dowel pin to the right for concave and to the left for convex.
- 4x90º gaduation in full 360º circle. 6 Minute vernier reading. Chrome plated.
- One push-pull type knob for radius and angle control and for safer and faster operations.
- ACCURACY. Exteremely close tolerances are held in the manufacture of this tool, assured by hardening and precision grinding of all critical parts. Ways are chrome hardened.
- ECONOMY. Set-up and dressing time reduced to a bare minimum due to simplicity.

Universal Wheel Dresser

ORDER NO.V-TDC CODE NO.2012-020

WEIGHT:7.8kgs

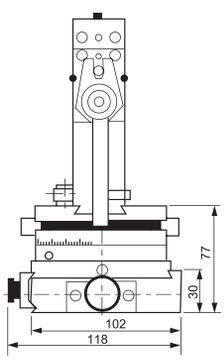
The wheel dresser that dresses two angles tangent to a radius in one continuous motion with .0001~0.0002mm accuracy.
The wheel dresser with a micrometer feed-0.98″(25mm) travel.

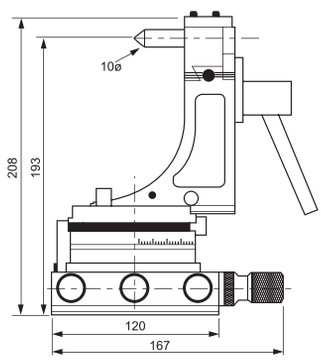
SIMPLE-ELIMINATES HEIGHLY SKILLED OPERATORS

Fluidmotion means YOU CAN dress two angles tangent to a radius in one continuous motion-with only one setting. The diamond automatically returns to center position after dressing angles. Thus even a beginner can dress complex froms quickly and accurately. (center height 195mm)

ELIMINATES ELABORATE SETUPS

No need to pre-set diamond, or use any other tool except a micrometer and a simple hex wrench.
No Gage block-Master Gage setting or Block-Parallel Bar-Surface Plate-Height Gage-Dial Indicator.
No movement of dovetails necssary to form angles. The angle is dressed by continuing to push handle in both directions after radius is formed.
No need to use Gibs & V-Ways other than positioning surfaces.

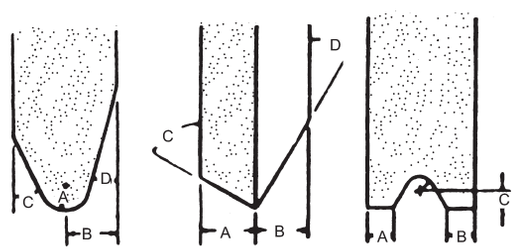




ACCURATE-RAPID, REPAT FORM-DRESSING

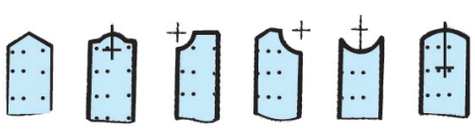
Fluidmotion generates clean, precise wheel profiles entirely free of chatter marks. Without fluidmotion a perfect blend of angles and radius is improbable.

PRECISE SHARP CONTOURS-concave or convex, at a full 180 degrees, are obtained consistently with (GUARANTEED) 0.001″ accuracy.



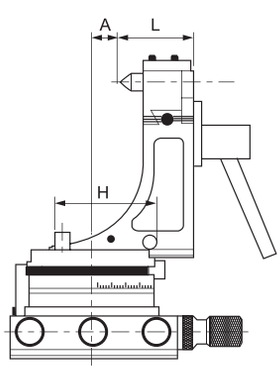
CONVEX RANGE-0R-76.2R
CONCAVE RANGE-0.8R-88.9R
ACCURATE...FLUIDMOTION...PRECISE...

HOLD INTERSECTING ANGLES 12 to 15 seconds. This is accomplished by operating upright and handle.
Setting up two angles requires 10 seconds. Setting two angles and radius requires less than 3 minutes.



THE MOST DURABLE DRESSER AVAILABLE

Manufactured from hardened, ground and lapped alloy steels.
No wearing surfaces. Swivels on sealed bearings.
This form tangent in one setting-two angles-two radius-one flat.
MAX. Swing distance of diamond cutter.....±14mm
Measuring guasi-pin dia.....ø10
MAX. Wheel dia.....ø200mm
Reading accuracy of turret index.....5′
Feed per division of handle scale.....0.01mm



Calculation Methond

To dress convex arc surface: H=L + R
To dress concave arc surface: H=L +(-R)
H: Distance between outer generating lines of two locating pins.
R: Radius of the arc surface to be dressed
L: Distance from tip of diamond cutter to base plate