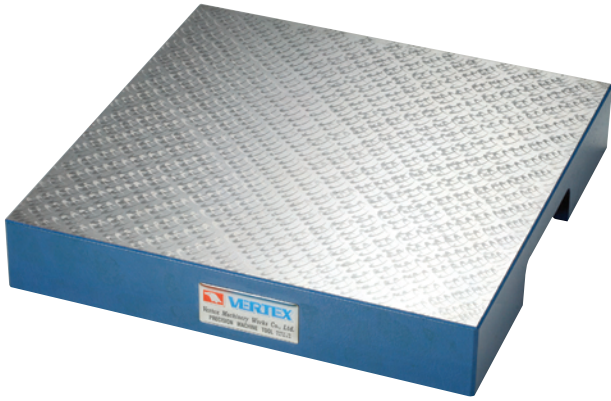




Cast Iron Surface Plates



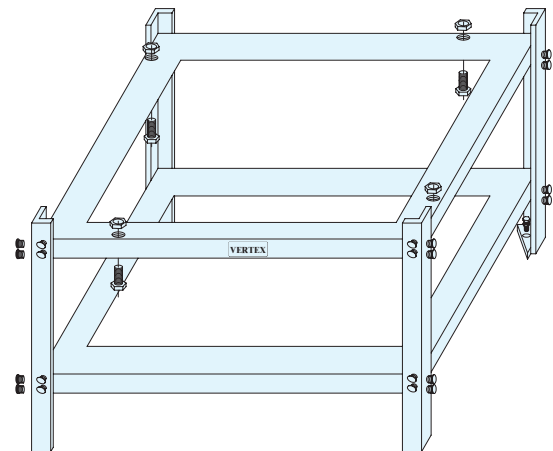
- These surface plates are designed for a diversity of applications where a smooth surface is needed.
- Rigidity and lasting accuracy are ensured by adequate top and side thickness and ribbed construction.
- The surfaces are free from pinholes. Precisely finished by planing and hand scraping, suitable for various kinds of high precision work, inspection and countless other uses.
- NOT FOR LABORATORY
- Thickness may be varied.

Surface Plates

Unit:mm

ORDER NO.	SIZE	SURFACE ACCURACY	APPROX. WEIGHT	CODE NO.
	L x W x H mm			
VS-01	200x200x(50)	0.005/100	7.1	2021-001
VS-02	250x250x(50)		11.1	2021-002
VS-03	250x300x(50)		10.9	2021-003
VS-04	300x300x(50)		12.6	2021-004
VS-05	300x400x(60)	0.006/100	20.1	2021-005
VS-06	300x450x(65)		24	2021-006
VS-07	450x450x(80)		50.5	2021-007
VS-08	500x500x(75)		56	2021-008
VS-09	450x600x(100)		64.5	2021-009
VS-10	600x600x(100)		78	2021-010
VS-11	600x900x(110)	0.007/100	117	2021-011
VS-12	900x900x(130)		220	2021-012
VS-13	900x1200x(155)		305	2021-013

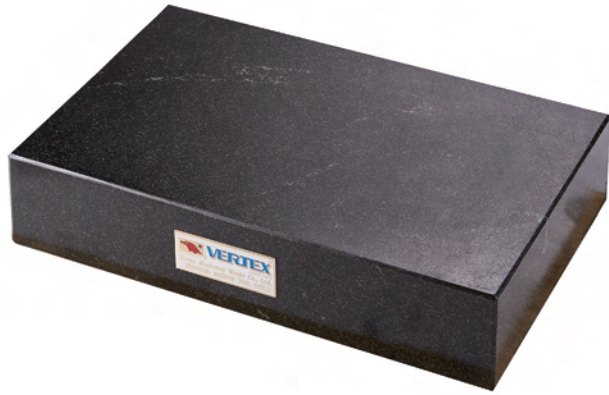
NEW



Separated Modular Design DIY Type.
Low Profile Packing
With Adjustment Screw For Leveling

Cast Iron Surface Plates Stand

ORDER NO.	STAND SIZE	KGS	CODE NO.
	L x W x H mm		
VSD-09N	450x600x700	25.6	2021-009N
VSD-10N	600x600x700	28.2	2021-010N
VSD-11N	600x900x700	47.8	2021-011N
VSD-12N	900x900x700	54.3	2021-012N
VSD-13N	900x1200x600	70.0	2021-013N



- Black Granite Surface Plates meet or exceed JIS B7513/ISO-8512-2 Federal Specification GGG-P-463c.
- Harder than steel.
- Does not nick or burr.
- Retains accuracy for years.
- Auto-collimator checked for overall accuracy.
- Guaranteed repeat reading. Includes an inspection certificate to show the unilateral accuracy of plate.
- Does not rust or corrode.
- Surface Accuracy : 0.013~0.0065 / 100 mm
- NOT FOR LABORATORY
- Thickness may be varied.

Accuracy and O-Groove Style available only in workshop Grade A

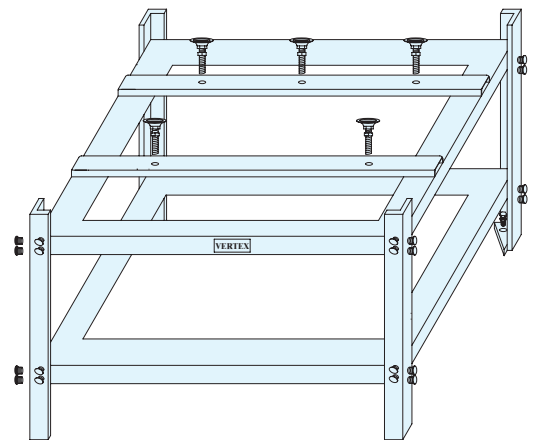
BLACK GRANITE SURFACE PLATES

Surface Plates

Unit:mm

ORDER NO.	SIZE	SURFACE ACCURACY	APPROX. WEIGHT	CODE NO.
	L x W x H mm	mm	kgs	
VSG-04	250x300x(52)	0.0065	12.6	2021-019
VSG-05	300x300x(60)	0.0065	17	2021-020
VSG-06	300x450x(60)	0.0065	25	2021-021
VSG-07	450x450x(75)	0.0065	46	2021-022
VSG-09	450x600x(100)	0.007	82	2021-023
VSG-10	600x600x(100)	0.009	109	2021-024
VSG-11	600x900x(110)	0.009	185	2021-025
VSG-13	900x1200x(135)	0.012	440	2021-027
VSG-14	1000x1000x(135)	0.012	408	2021-028
VSG-15	1000x1500x(200)	0.013	910	2021-029
VSG-21	900x900x(160)	0.013	380	2021-032

NEW



Strong & Rigid

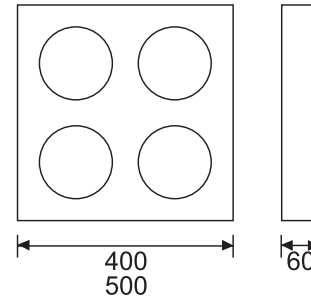
Separated Modular Design DIY Type.
Low Profile Packing
With Adjustment Screw For Leveling
Material : SS41

Black Granite Surface Plates Stand

ORDER NO.	STAND SIZE	KGS	CODE NO.
	L x W x H mm		
VSGD-09N	450x600x700	32.6	2021-023N
VSGD-10N	600x600x700	35.9	2021-024N
VSGD-11N	600x900x700	53.7	2021-025N
VSGD-13N	900x1200x700	72.8	2021-027N
VSGD-14N	1000x1000x700	72.3	2021-028N
VSGD-15N	1000x1500x700	83.7	2021-029N
VSGD-21N	900x900x600	73.0	2021-032N



Granite Square Rulers



- NOT FOR LABORATORY
- Thickness may be varied.

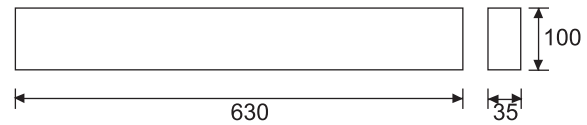
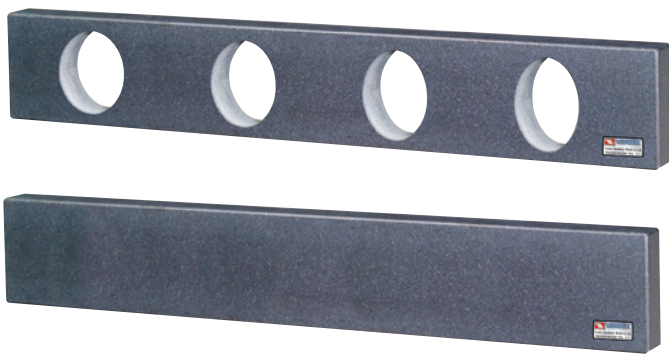
Unit: mm

Accuracy:
SQUARENESS 0.002 / 100 mm

ORDER NO.	SIZE	G.W.(kgs)	CODE NO.
VQR-400	400x400x(60)	24.8	2021-050
VQR-500	500x500x(60)	40.2	2021-051



Granite Straight Rulers



- NOT FOR LABORATORY

Accuracy:
PARALLELISM 0.002 / 100 mm

Unit: mm

ORDER NO.	SIZE	G.W.(kgs)	CODE NO.
VSR-630	630x100x(35)	8.7	2021-060
VSR-1000	1000x80x(50)	13.7	2021-061



Granite Triangle Ruler



Accuracy:
SQUARENESS 0.002 / 100 mm

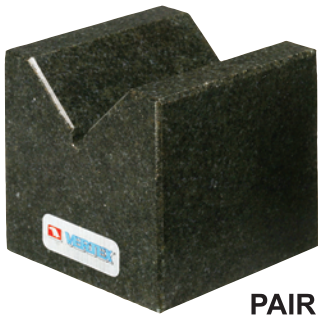
mm

ORDER NO.	Size	Thickness	Weight (kgs)	CODE NO.
VGT-300	300x200	30	5.7	2022-020
VGT-400	400x250	30	8.4	2022-021
VGT-600	600x400	63	27.5	2022-022

- NOT FOR LABORATORY
- Thickness may be varied.

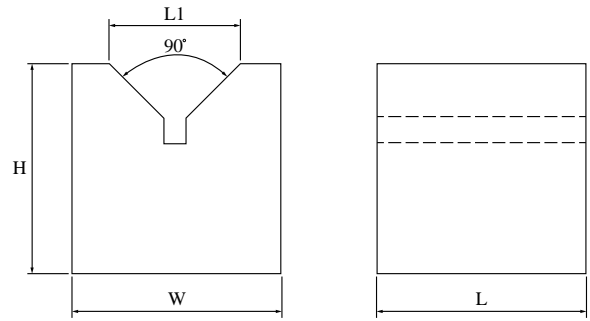


Granite V-Block



PAIR

- NOT FOR LABORATORY
- Thickness may be varied.



Accuracy:

PARALLELISM 0.005 / 100 mm

ORDER NO.	CAPACITY Ø		DIMENSION				KGS	CODE NO.
	MIN.	MAX.	H	W	L	L1		
VG-63	Ø 4	Ø 65	65	65	65	38	1.7	2022-030
VG-100	Ø 10	Ø 100	100	100	100	62	6.3	2022-031

GRANITE V-BLOCK



Horizontal Leveling Instrument



0.02 / 100 mm

- When the bubble is in the center & touch and with in 2 red line, then the surface is leveled.
- NOT FOR LABORATORY

ORDER NO.	DIMENSION	Weight (kgs)	CODE NO.
VLI-200A	200x46x46	1.96	2022-043
VLI-300A	300x46x45.90	2.78	2022-044



Precision Square Level



0.02 / 100 mm

- When the bubble is in the center & touch and with in 2 red line, then the surface is leveled.
- NOT FOR LABORATORY

ORDER NO.	DIMENSION	Weight (kgs)	CODE NO.
VSL-200A	200x200x39.5	4.10	2022-053
VSL-300A	300x300x44.6	8.83	2022-054

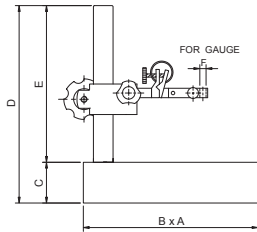


Granite Surface Stand

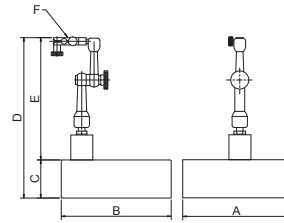
MAX. stroke 60 mm



VH-41,42,43



VH-45,46,47



- THE DIAL GAUGE IS OPTIONAL
- ACCURACY: 0.005/100mm

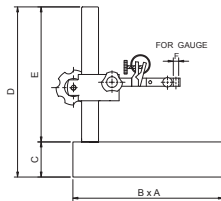
- NOT FOR LABORATORY
- Csize may be varied.

✳ Guage not included

ORDER NO.	AxB GRANITE PLATE DIEMENSION	C	D	E	F	WEIGHT (kgs)	CODE NO.
VH-41	6" x 6" 150x150 mm	52	252	200	8 mm	6	2022-001A
VH-42	6" x 9" 150x220 mm	52	252	200	8 mm	9	2022-002A
VH-43	9" x 12" 230x300 mm	90	290	200	8 mm	22	2022-003A
VH-45	6" x 6" 150x150 mm	52	185	133	8 mm	6	2022-005
VH-46	6" x 9" 150x220 mm	52	185	133	8 mm	7.9	2022-006
VH-47	9" x 12" 230x300 mm	90	223	133	8 mm	19.1	2022-007



Granite Surface Stand



ORDER NO.	AxB GRANITE PLATE DIEMENSION	C	D	E	F	WEIGHT (kgs)	CODE NO.
VH-48	6" x 6" 150x150 mm	52	352	300	8mm	9.5	2022-017
VH-49	6" x 9" 150x220 mm	52	352	300	8mm	12.5	2022-018
VH-50	9" x 12" 230x300 mm	90	390	300	8mm	25.5	2022-019



Tester Arm Base



2-STEP ROUND SHAPE BASES IS EASY TO MOVE WITH 1 HAND.

Features:

- Measuring aid, NOT FOR LABORATORY
- Equipped with flexible arm
- For smooth measuring on granite / cast iron surface plate!
- Without dial gauge
- Base fine adjustment
- Bottom high precision finish : 0.02mm tolerance
- Material : Steel
- Single-hand operation
- Great for side measuring
- Reliable 1 knob locking mechanism

✳ WITHOUT DIAL GUAGE mm

ORDER NO.	BASE (Ø)	MAIN ROD O.D x L	SUB ROD O.L x L	WEIGHT (kgs)	CODE NO.
VTB-120	120	Ø25 x 125	Ø25 x 125	2.65	2022-015
VTB-121	260x60x35	Ø14x200	Ø12x160	3.6	2022-014

FOR SURFACE PLATE



ORDER NO. VTB-121

EXAMPLE





Cleaning Paper



ORDER NO. P-1000(PAPER)
CODE NO.2021-200

SIZE: WIDTH: 240 MM (±1CM)
LENGTH: 350 M, G.W. 11 kgs
PACK: 2 ROLL/CARTON
COLOR: WHITE

ORDER NO. S-1000(STAND)
CODE NO.2021-220

450L x 330W x 800H
G.W. 2.7 kgs

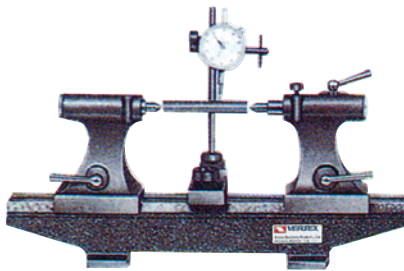


Concentric Test Stand



● For workshop use only

VCI-400



● Example

VCI-200



※ Gauge not included

mm

ORDER NO.	LENGTH	WIDTH	HEIGHT	CENTER DISTANCE	CENTER HEIGHT	WEIGHT (kgs)	CODE NO.
VCI-200	490	90	100	200	145	22	2021-101
VCI-300	530	90	100	300	145	26.8	2021-105
VCI-400	650	90	100	400	145	29.6	2021-102
VCI-600	1000	200	230	600	200	138.5	2021-106



Pin Gauge



EACH 0.01mm FOR ONE STEP SIZE

ORDER NO.	NOMINAL DIMENSION EACH 0.01mm FOR 1 PCS	PCS/SET	WEIGHT (kgs)	CODE NO.
VPG-0B	0.50, 0.51, 0.52~1.00	51	1	2022-060
VPG-1A	1.00, 1.01, 1.02~1.50	51	1	2022-061
VPG-1B	1.50, 1.51, 1.52~2.00	51	1	2022-062
VPG-2A	2.00, 2.01, 2.02~2.50	51	1	2022-063
VPG-2B	2.50, 2.51, 2.52~3.00	51	1	2022-064
VPG-3A	3.00, 3.01, 3.02~3.50	51	1	2022-065
VPG-3B	3.50, 3.51, 3.52~4.00	51	1	2022-066
VPG-4A	4.00, 4.01, 4.02~4.50	51	1.5	2022-067
VPG-4B	4.50, 4.51, 4.52~5.00	51	1.5	2022-068
VPG-5A	5.00, 5.01, 5.02~5.50	51	1.5	2022-069
VPG-5B	5.50, 5.51, 5.52~6.00	51	1.5	2022-070
VPG-6A	6.00, 6.01, 6.02~6.50	51	3.1	2022-071
VPG-6B	6.50, 6.51, 6.52~7.00	51	3.2	2022-072
VPG-7A	7.00, 7.01, 7.02~7.50	51	3.5	2022-073
VPG-7B	7.50, 7.51, 7.52~8.00	51	3.5	2022-074
VPG-8A	8.00, 8.01, 8.02~8.50	51	3.8	2022-075
VPG-8B	8.50, 8.51, 8.52~9.00	51	3.8	2022-076
VPG-9A	9.00, 9.01, 9.02~9.50	51	4	2022-077
VPG-9B	9.50, 9.51, 9.52~10.00	51	4	2022-078
VPG-10A	10.00, 10.01, 10.02~10.50	51	5	2022-079
VPG-10B	10.50, 10.51, 10.52~11.00	51	5	2022-080

FEATURES:

DIAMETER	EACH STEP SIZE	LENGTH	ACCURACY IN DIAMETER	ROUNDNESS TOLERANCE	HARDNESS
0.05~0.09	0.01	5~10	±0.5um	0.5um	HV480
0.10~0.19	0.01	20	±0.5um	0.5um	HV480
0.20~0.99	0.01	40	±1um	0.8um	HV650
1.00~10.00	0.01	50	±1um	0.8um	HV650
10.01~20.00	0.01	50	±1.5um	1.6um	HV650
20.00~30.00	0.01	50	±1.5um	1.6um	HV650



PRECISION VERNIER CALIPER



L: 150, 200, 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VVC-6"	0.02 mm 1/1000"	0.4	2023-001
VVC-8"		0.5	2023-002
VVC-12"		0.8	2023-003

DIGITAL ELECTRONIC CALIPER



L: 150, 200, 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VEC-6"	0.01 mm	0.4	2023-010
VEC-8"		0.5	2023-011
VEC-12"		0.8	2023-012

DIAL CALIPER



L: 150, 200, 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDC-6	0.02 mm	0.4	2023-050
VDC-8		0.5	2023-051
VDC-12		0.9	2023-052

OUTSIDE MICROMETER



0 - 25 mm
25 - 50 mm
50 - 75 mm
75 - 100 mm
100-125 mm

INSIDE MICROMETER



5 - 30 mm
25 - 50 mm
50 - 75 mm
75 - 100 mm
100-125 mm

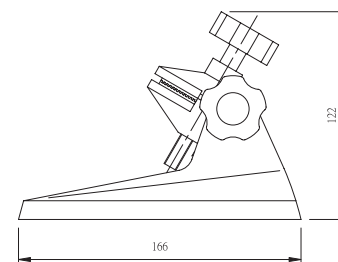
ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VOM-0025	0.01 mm	0.3	2023-060
VOM-2550		0.4	2023-061
VOM-5075		0.5	2023-062
VOM-75100		0.6	2023-063

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VIM-0530	0.01 mm	0.3	2023-065
VIM-2550		0.4	2023-066
VIM-5075		0.4	2023-067
VIM-75100		0.4	2023-068
VIM-100125		0.42	2023-069



MICROMETER STAND

MAX. OPENED
17mm

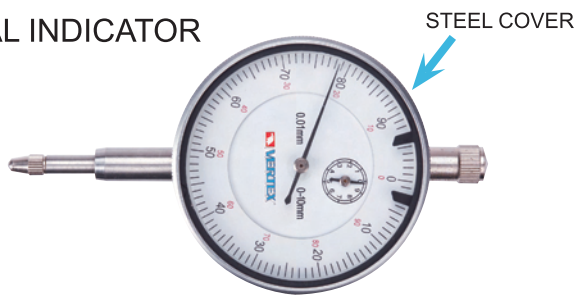


166x110x122 mm

ORDER NO.	WEIGHT(kg)	CODE NO.
VH-19	1.3	2023-090



DIAL INDICATOR

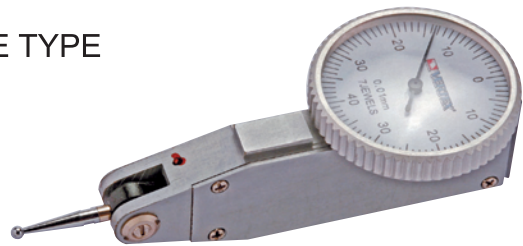


0.01~10 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDI-1	0.01 mm	0.3	2023-020

DIAL TEST INDICATOR

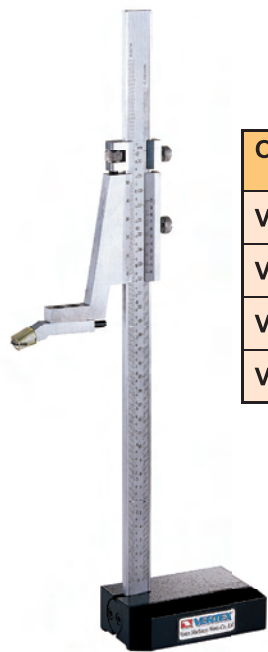
NIDDLE TYPE



0.01~0.8 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDI-0.8A	0.01 mm	0.2	2023-070

HEIGHT VERNIER CALIPER



H: 300, 450, 500, 600

ORDER NO	1 SCALE	WEIGHT (kgs)	CODE NO.
VHG-12	0.02 mm	4	2023-034
VHG-18		11.9	2023-035
VHG-20		10.7	2023-036
VHG-24		11.8	2023-037

HEIGHT DIAL CALIPER



H: 300, 600 mm

ORDER NO.	1 SCALE	WEIGHT (kgs)	CODE NO.
VHD-12	0.01 mm	4	2023-080
VHD-24		9.4	2023-081

MEASURING INSTRUMENT



MICROMETER HEAD



ORDER NO.	SCALE x L	WEIGHT(kg)	CODE NO.
VMH-25	0.01x25 mm	0.2	2023-040



Angle Level



Oil Type Protractor With Magnets



VAL-60



VAL-50



VAL-30



VAL-10



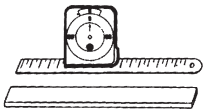
VAL-20

ORDER NO.	LxWxH	BASE	ACU	WEIGHT (kg)	CODE NO.
VAL-10	78x62x14mm	ABS	0.2°	0.2	2033-100
VAL-30	93x79x15mm	ABS	0.1°	0.2	2033-101
VAL-50	93x79x16mm	METAL	0.083°	0.4	2033-102
VAL-60	140x130x20mm	METAL	0.05°	1	2033-103
VAL-20	70x65x30mm	ABS	0.2°	0.2	2033-104
	13mm/1/2"x3M/10'				

- The pointer is rotating in a hydraulic oil for stable, precise and error-eliminating reading, even to a differential subgraduation less than one degree. The two pointers or the vernier versus the annular graduations are read super imposedly with minimum reading error.
- Double annular graduations are provided for preventing visual reading error.
- The transparent temperature-resistant oil may visually amplify the pointer for a better optical reading.
- The double-rail magnet may attract this angle level on a round pipe or a surface of ferrous material.
- An extension rule could be inserted into the bottom slot for measurement and drawing line for wider area.

1. RESET: For setting a pseudo-horizon, upon which a new angle on the pseudo-horizon can be directly measured.
2. DOUBLE CHECK: Double annular graduations provided for calibrating either positive or negative degrees.

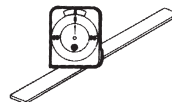
MULTI-FUNCTION ANGLE LEVEL



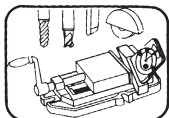
A Thin iron plate (The magnet power the thicker the weaker) may be attracted under the angle level for wider measurement.



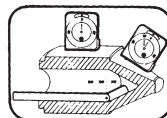
Inserting a straight extension rule into a bottom slot if the angle level.



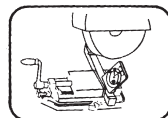
Attracting the angle level on an iron plate for measuring an angle inside a tank.



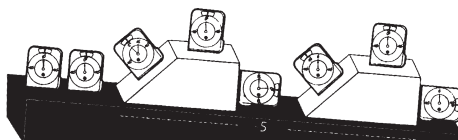
1. Suitable for working machines



2. Grinding machine



3. Out & inner cone angle



A standard angle block laid on a Non-horizontal Plane showing several measured positions by this angle level.

Finding an angle

Align the movable degree scale 0° reading, in line with the fixed vernier, 0° mark. Set your instrument's bottom surface on the object to be measured. Your reading off the pointer is your angle of inclination from 0°

Setting Specific angles

Align the desired angle on the movable scale to the vernier 0° mark. Tilt the instrument until the pointer is aligned with the 0° mark.

OVERLAP

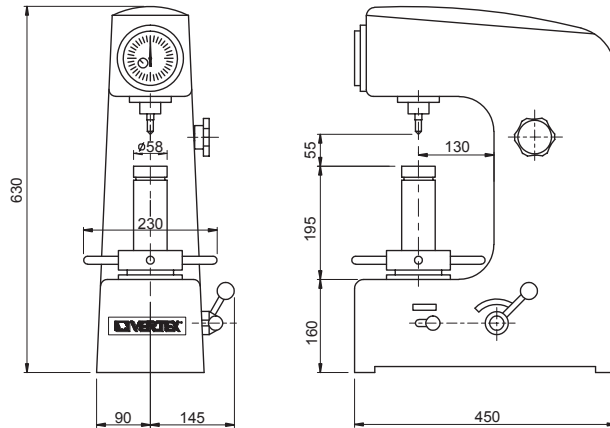
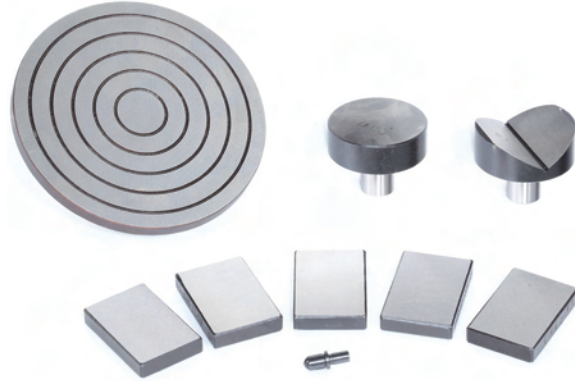


Hardness Tester

ORDER NO.VHT-260 CODE NO.2033-201



NEW



- Swing 260mm
- Workpiece max. height : 170mm
- L x W x H : 466 x 238 x 630 mm
- Weight : 86.2 kgs
- 3 pressure degree : 60, 100, 150 kgs
- Rockwell scale : HRA>70
HRB 30 - 100
HRC 20 - 67

ACCESSORIES :

- Diamond tester x 1
- Steel ball tester x 1
- Flat testing table x 2
- Prisma testing table x 1
- Rockwell standard manual x 1 (5PCS/SET)

HARDNESS TESTER



Stainless Steel Ruler

NEW



- Scale : acid - etched,engraved
- Surface treatment : polished finishing.

ORDER NO.	SIZE	DIMENSION(mm)	N.W.(kg)	CODE NO.
VSR-150	6"/15 cm	170x14.7x0.6	0.015	2033-321
VSR-200	8"/20 cm	226x20.0x0.6	0.03	2033-322
VSR-300	12"/30 cm	334x23.7x1.0	0.06	2033-323