



96p



97p



97p



97p



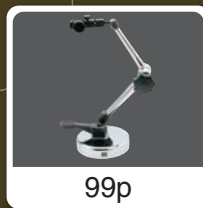
98p



98p



99p



99p



99p



99p



100p

STANDARDS



100p



100p



101p



101p



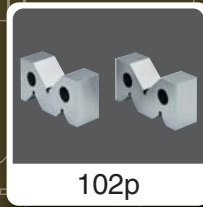
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102p



102p



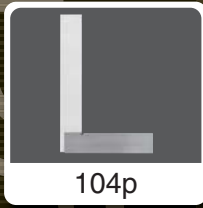
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103p



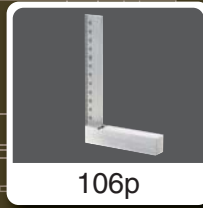
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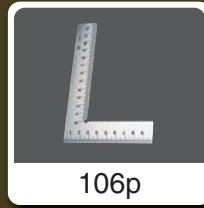
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105p



106p



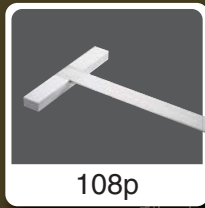
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107p



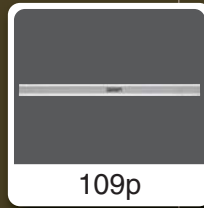
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108p



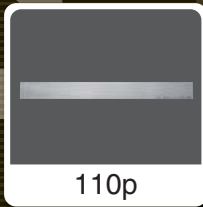
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109p



109p



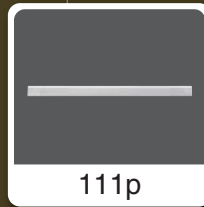
110p



110p



111p



111p



112p

GRANITE

CAST IRON
SURFACE
PLATE

PARALLEL
BLOCK

V BLOCK

SQUARE

STRAIGHT
EDGE

PARALLEL
CLAMPS



GRANITE SURFACE PLATE • STEEL STAND

GRANITE SURFACE PLATE



- USE**
- Measurement of flatness, parallelism and squareness
 - For tooling set up, precision inspection etc.

- MATERIAL**
- Granite

- FEATURES**
- Granite is abrasion resistant and unlike cast iron, granite does not rust or deteriorate with time

Order No.	Model No.	W × D × H (mm)	Flatness (μm)	Weight
151102	G1520	150 × 200 × 50	3	4.5kg
151103	G2020	200 × 200 × 50	3	5.5kg
151104	G2525	250 × 250 × 70	3	12 kg
151001	G3030	300 × 300 × 100	3	30 kg
151002	G3045	300 × 450 × 100	3	38 kg
151007	G5050	500 × 500 × 100	4	65 kg
151003	G4560	450 × 600 × 100	4	70 kg
151008	G5075	500 × 750 × 130	5	136 kg
151004	G6060	600 × 600 × 130	5	130 kg
151005	G75100	750 × 1000 × 150	7	318 kg
151006	G10100	1000 × 1000 × 150	8	425 kg
151000	G10150	1000 × 1500 × 200	9	870 kg
151105	G10200	1000 × 2000 × 200	12	1150 kg

GRANITE SURFACE PLATE STEEL STAND

- USE**
- Steel stand for granite surface plate

- MATERIAL**
- Angle steel

- FEATURES**
- Heavy duty bolted steel construction
 - Leveling bolts for horizontal adjustment
 - Silver painted frame

Order No.	Model No.	Applicable Surface Plate Size (mm)	W × D × H (mm)	Weight
151009	GT-5050	500 × 500	380 × 380 × 775 ~ 800	31kg
151010	GT-4560	450 × 600	350 × 400 × 775 ~ 800	31kg
151019	GT-5075	500 × 750	380 × 515 × 775 ~ 800	45kg
151018	GT-6060	600 × 600	420 × 440 × 775 ~ 800	35kg
151017	GT-75100	750 × 1000	530 × 660 × 775 ~ 800	60kg
151020	GT-10100	1000 × 1000	640 × 700 × 675 ~ 700	76kg
151101	GT-10150	1000 × 1500	700 × 940 × 675 ~ 700	116kg

GRANITE SURFACE PLATE STAND with side stop arms



GT-5050W

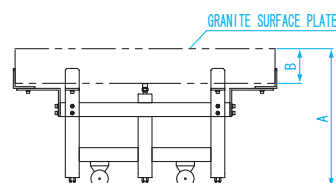
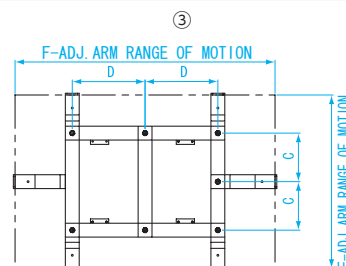
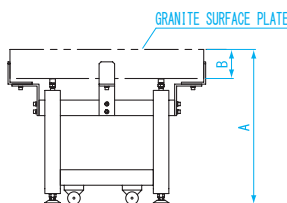
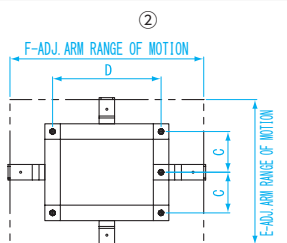
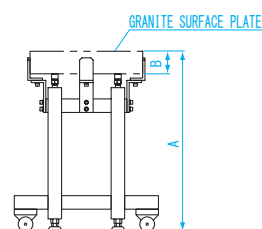
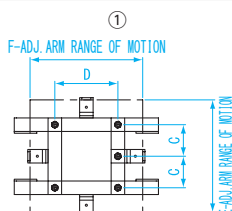


GT-75100W



GT-10150W

DIMENSIONS



Units : mm

DIMENSIONS	Model No.	A	B	C	D	E	F
①	GT-5050W	Approx. 800 ~ 850	100	140	280	485 ~ 515	485 ~ 515
①	GT-4560W	Approx. 800 ~ 850	100	126	336	440 ~ 465	590 ~ 615
①	GT-6060W	Approx. 800 ~ 850	130	168	336	590 ~ 615	590 ~ 615
①	GT-5075W	Approx. 800 ~ 850	130	140	420	485 ~ 515	735 ~ 765
②	GT-75100W	Approx. 800 ~ 850	150	210	560	730 ~ 770	980 ~ 1020
②	GT-10100W	Approx. 800 ~ 850	150	280	560	980 ~ 1040	980 ~ 1040
③	GT-10150W	Approx. 800 ~ 850	200	280	420	980 ~ 1040	1480 ~ 1540
③	GT-10200W	Approx. 800 ~ 850	200	280	560	980 ~ 1040	1980 ~ 2040

USE

- Designed to fit SK granite surface plate

MATERIAL

- Square tubular machine grade steel

FEATURES

- Leveling bolts for horizontal adjustment
- Side stop arms
- Casters for easy movement
- Gray painted finish

Order No.	Model No.	Surface Plate Size (mm)	Weight
151160	GT-5050W	500 × 500 × 100	61kg
151161	GT-4560W	450 × 600 × 100	63kg
151162	GT-6060W	600 × 600 × 130	69kg
151163	GT-5075W	500 × 750 × 130	67kg
151164	GT-75100W	750 × 1000 × 150	84kg
151165	GT-10100W	1000 × 1000 × 150	100kg
151166	GT-10150W	1000 × 1500 × 200	153kg
151167	GT-10200W	1000 × 2000 × 200	160kg



GRANITE SURFACE PLATE T TYPE

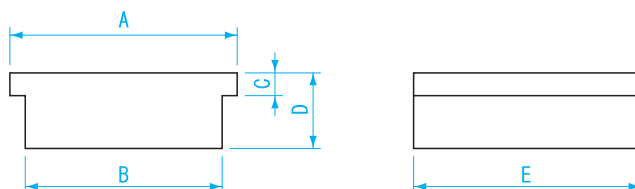


G3030T



T-shape for easy lifting

DIMENSIONS



Units : mm

Model No.	A	B	C	D	E
G3030T	300	260	30	100	300
G3045T	450	410	30	100	300

- USE**
- Measurement of flatness, parallelism and squareness
 - For tooling set up, precision inspection, etc.

MATERIAL

- Granite

FEATURES

- Convenient to lift and move
- Granite is abrasion resistant and unlike cast iron, granite does not rust or deteriorate with time

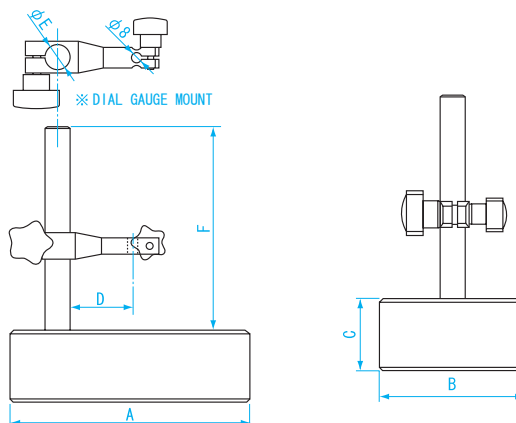
Order No.	Model No.	W × D × H (mm)	Flatness (μm)	Weight
150710	G3030T	300 × 300 × 100	3.5	22kg
150711	G3045T	300 × 450 × 100	4.5	40kg

GRANITE COMPARATOR STAND



GC-150

DIMENSIONS



Units : mm

Model No.	A	B	C	D	E	F
GC-150	150	100	40	45	18	150
GC-200	200	150	50	65	30	300

- USE**
- Provides flat surface for dial indicator measurements

MATERIAL

- Granite

FEATURES

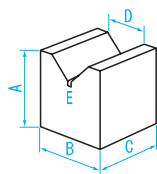
- Granite is abrasion resistant. Unlike cast iron, granite does not rust or deteriorate with time

Order No.	Model No.	Measuring Range (mm)	Flatness(base) (μm)	Dial Indicator Mounting hole (mm)	Weight
150971	GC-150	0 ~ 100	2	φ 8	2.5kg
150972	GC-200	0 ~ 250	2	φ 8	7.5kg

GRANITE V BLOCK



DIMENSIONS



Units : mm

GV-75

Model No.	A	B	C	D	E*
GV-50	50	50	50	40	Approx. 4
GV-75	75	75	75	50	Approx. 4
GV-100	100	100	100	63	Approx. 6
GV-150	150	150	150	110	Approx. 8

* reference value

USE • Tools for precise holding of round parts

MATERIAL

- Granite

FEATURES

- Granite is abrasion resistant. Unlike cast iron, granite does not rust or deteriorate with time
- 2 PCS(matched pair)

Order No.	Model No.	Nominal size (mm)	Squareness Parallelism	Weight
150961	GV-50	50	5 μ m/100mm	430g
150962	GV-75	75	5 μ m/100mm	1.2kg
150963	GV-100	100	5 μ m/100mm	2.5kg
150964	GV-150	150	5 μ m/100mm	8.6kg

GRANITE STRAIGHT EDGE



GS-750

USE • For inspecting flatness of standards

MATERIAL

- Granite

FEATURES

- Granite is abrasion resistant. Unlike cast iron, granite does not rust or deteriorate with time

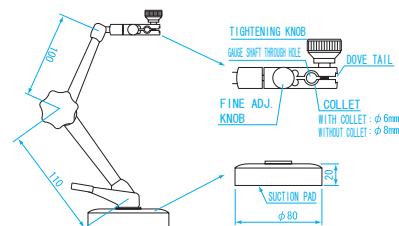
Order No.	Model No.	Nominal Size (mm)	Straightness (μ m)	Parallelism (μ m)	Weight
150951	GS-750	750	3	5	12kg
150952	GS-1000	1000	4	6	25kg

VACUUM CLAMPING BASE



DIMENSIONS

Units : mm



USE • For mounting dial indicator

MATERIAL

- Main body : Aluminum
- Suction cup : Rubber

FEATURES

- Suction cup for fixing to non-magnetic surface such as granite surface plate

SPECIFICATIONS

- Holding force : approx. 200N (45 lb)
- Stem holder : ϕ 6, ϕ 8 (with dovetail groove)
- Shaft diameter : M8

Order No.	Model No.	Base dimension (mm)	Weight
011755	VB-20	ϕ 80 $\times$ 20	550g

GRANITE PARALLEL BLOCK



GP-150

USE • For parallel unit

MATERIAL

- Granite

FEATURES

- Granite is abrasion resistant. Unlike cast iron, granite does not rust or deteriorate with time
- Precision surface on four sides
- 2 PCS(matched pair)

Order No.	Model No.	Nominal Size (mm)	Squareness/Parallelism (μ m)	Weight
150965	GP-150	150	1.5	520g
150966	GP-200	200	2	1kg
150967	GP-300	300	3	3.5kg



STANDARDS

05

STANDARDS

GRANITE

CAST IRON
SURFACE
PLATE

PARALLEL
BLOCK

V BLOCK

SQUARE

STRAIGHT
EDGE

PARALLEL
CLAMPS



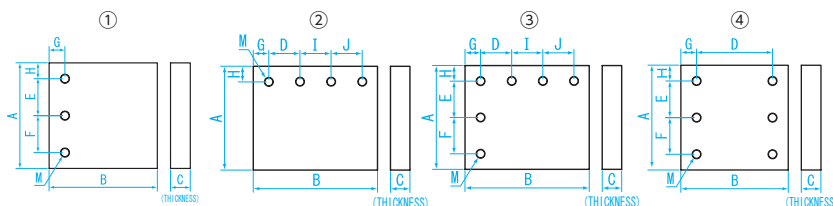
GRANITE MEASURING JIG PLATE



3030I-6



DIMENSIONS



Units : mm

DIMENSIONS	Model No.	A	B	C	D	E	F	G	H	I	J	M
①	2020I-3	200	200	30	—	70	70	30	30	—	—	M6×P1.0 (D)12mm
④	2020I-6	200	200	30	140	70	70	30	30	—	—	M6×P1.0 (D)12mm
②	2025I-4	200	250	40	60	—	—	30	30	60	60	M6×P1.0 (D)12mm
③	2025L-6	200	250	40	60	70	70	30	30	60	60	M6×P1.0 (D)12mm
②	2530I-4	250	300	40	80	—	—	30	30	80	80	M6×P1.0 (D)12mm
③	2530L-6	250	300	40	80	95	95	30	30	80	80	M6×P1.0 (D)12mm
①	3030I-3	300	300	40	—	120	120	30	30	—	—	M6×P1.0 (D)12mm
④	3030I-6	300	300	40	240	120	120	30	30	—	—	M6×P1.0 (D)12mm

- USE**
- Sample can be clamped to surface for inspection
- MATERIAL**
- Granite
- FEATURES**
- Threaded holes in the surface of the plate. High hardness and superior abrasion resistance. Resist water deterioration and corrosion with time

Order No.	Model No.	W × D × H (mm)	Flatness (μm)	Weight
151170	2020I-3	200×200×30	5	4kg
151171	2020I-6	200×200×30	5	4kg
151172	2025I-4	200×250×40	5	6kg
151173	2025L-6	200×250×40	5	6kg
151174	2530I-4	250×300×40	5	9kg
151175	2530L-6	250×300×40	5	9kg
151176	3030I-3	300×300×40	5	11kg
151177	3030I-6	300×300×40	5	11kg

SPRAY CLEANER

USE

- For cleaning the surface of granite plate

INGREDIENTS

- Straight-chain sodium alkyl benzene sulfonate, Polyoxyethylene alkylether, Fatty acid alkanolamide, Chelator

FEATURES

- Removes dirt and grease without damaging stone surface
- Oderless, and hand friendly
- Nonflammable

SPECIFICATIONS

- pH : Neutral (ph7.0 ± 1.0)
- Estimated usage : 8 squirts per 1m²
- Dimensions : (H)197 × (W)90 × (T)50mm



GRANITE PLATE CLEANING PASTE

USE

- Cleans and lubricates surface of granite plate

INGREDIENTS

- Flux calcined diatomaceous earth, Surfactants: 4% (Fatty acid salt), Silicone oil

FEATURES

- Makes the granite plate shine for improved sliding on surface
- Reduces wear on the granite surface from gauges during measurement

SPECIFICATIONS

- Liquid component : High viscosity silicone oil (ph9.0 ± 1.0)
- Estimated usage : 5g per 1m²
- Dimensions : (H)145 × (W)65 × (T)45mm



Order No.	Model No.	Content
151107	GSC-320	320g

Order No.	Model No.	Content
151106	GW-200	200g



USE • For tooling set up, precision inspection etc.

MATERIAL

- Cast iron

FEATURES

- Planer standard for hand scraping operation



S3030

Order No.	Model No.	W × D × H (mm)	Flatness (μm)	Weight
150996	S2030	300×200× 50	35	10kg
151011	S3030	300×300× 60	38	18kg
150997	S3040	300×400× 60	43	23kg
151012	S3045	300×450× 60	46	30kg
151013	S5050	500×500× 75	57	55kg
151014	S4560	600×450×100	60	75kg
151015	S6060	600×600×100	66	82kg
151016	S6090	900×600×100	82	120kg

STEEL PARALLEL BLOCKS

USE • Parallels are used to maintain parallelism and straightness as well as machine set-up.

- Indispensable for inspection and layout work or for miscellaneous setup work in grinding, marking, drilling and milling, in addition to protecting machinery from blade damage

MATERIAL

- Machine grade carbon steel

FEATURES

- Completely heat treated and accurately ground on all faces
- 2 PCS(matched pair)
- Parallelism/ Straightness accuracy : 5 μm
- Hardness:HV510~590



Model No.	Dimension (mm)	Weight
P-1	6 × 10 × 150	140g
P-2	6 × 15 × 150	200g
P-3	6 × 20 × 150	300g
P-4	10 × 15 × 150	400g
P-5	10 × 20 × 150	500g
P-6	15 × 20 × 150	720g
P-7	15 × 25 × 150	900g
P-8	15 × 20 × 230	550g
P-9	15 × 25 × 230	700g
P-10	20 × 25 × 230	900g
P-11	20 × 35 × 230	1.3kg
P-12	20 × 25 × 300	1.2kg
P-13	20 × 30 × 300	1.4kg
P-14	25 × 30 × 300	1.8kg
P-15	25 × 40 × 300	2.4kg
P-16	25 × 50 × 300	3kg
P-17	30 × 40 × 300	2.9kg
P-18	30 × 50 × 300	3.6kg
P-19	40 × 50 × 300	4.8kg
P-20	40 × 75 × 300	7.1kg

STANDARDS

GRANITE

CAST IRON
SURFACE
PLATE

PARALLEL
BLOCK

V BLOCK

SQUARE

STRAIGHT
EDGE

PARALLEL
CLAMPS



CAST IRON V BLOCK - A type • B type



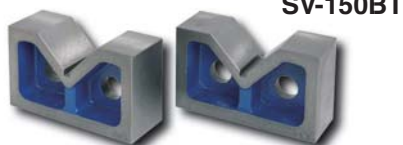
2 piece set. Tool for precise holding of round parts during measurement and production.



SV-100AT

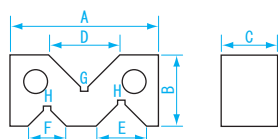


SV-125AT

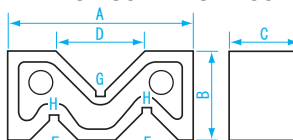


SV-150BT

DIMENSIONS



SV-50AT ~ SV-100AT



SV-125AT ~ SV-200AT

SV-75BT ~ SV-200BT

Units : mm

Model No.	A	B	C	D	E	F	G*	H*
SV-50AT	50	24	20	23	17	13	4	2
SV-75AT	75	35	24	37	24	16	4	2
SV-100AT	100	52	33	52	32	22	4	4
SV-125AT	125	69	44	63	37	26	5	3
SV-150AT	150	80	50	74	45	30	5	4
SV-200AT	200	110	70	100	60	40	5	4
SV-75BT	75	53	30	34	—	—	2	—
SV-100BT	100	60	38	48	—	—	5	—
SV-125BT	125	79	46	58	—	—	5	—
SV-150BT	150	88	57	80	—	—	5	—
SV-200BT	200	140	85	114	—	—	5	—

※ Reference value

USE • Tool for precise holding of round parts

MATERIAL • Cast iron

FEATURES • Machine finish
• 2 pcs (matched pair)

Order No.	Model No.	Type	Nominal Size (mm)	Pair groove height tolerance (mm)	Weight
NEW 150975	SV-50AT	A type	50	0.05	300g
NEW 150976	SV-75AT	A type	75	0.05	600g
NEW 150977	SV-100AT	A type	100	0.05	1.8kg
NEW 150978	SV-125AT	A type	125	0.06	3.4kg
NEW 150979	SV-150AT	A type	150	0.06	5.4kg
NEW 150980	SV-200AT	A type	200	0.07	12.5kg
NEW 150956	SV-75BT	B type	75	0.05	1.1kg
NEW 150957	SV-100BT	B type	100	0.05	1.8kg
NEW 150958	SV-125BT	B type	125	0.06	3.6kg
NEW 150959	SV-150BT	B type	150	0.06	5.8kg
NEW 150960	SV-200BT	B type	200	0.07	16.2kg

CAST IRON V BLOCK -Ground Finish-



USE • Tool for precise holding of round parts

MATERIAL • Cast iron

FEATURES • Ground finish
• 2 pcs (matched pair)
• Compliant with JIS grade 2

SPECIFICATIONS

- V groove squareness : 20 μ m (SVG-50, 75)
30 μ m (SVG-100 ~ 200)
- Squareness of parallel sides: 20 μ m (SVG-50, 75)
30 μ m (SVG-100 ~ 200)

Refer to Cast Iron V Block A type (SV-**AT) for dimensions

Order No.	Model No.	Type	Nominal Size (mm)	Weight
NEW 150681	SVG-50	A type	50	300g
NEW 150682	SVG-75	A type	75	600g
NEW 150683	SVG-100	A type	100	1.8kg
NEW 150684	SVG-125	A type	125	3.4kg
NEW 150685	SVG-150	A type	150	5.4kg
NEW 150686	SVG-200	A type	200	12.5kg

GRANITE

CAST IRON
SURFACE
PLATE

PARALLEL
BLOCK

V BLOCK

SQUARE

STRAIGHT
EDGE

PARALLEL
CLAMPS

CAST IRON BLOCK WITH V GROOVE

Allows clamping of workpiece for processing or measurement



SBV-150T

- USE**
 - Allows clamping of workpiece for marking, processing or measurement
- MATERIAL**
 - Cast iron
- FEATURES**
 - Machine finish
 - with clamp
- SPECIFICATIONS**
 - V groove(dovetail) angle : 90°

Order No.	Model No.	Nominal Size (mm)	Groove height squareness / parallelism / perpendicularity (mm)	Length (mm)	Width (mm)	Height (mm)	Thickness (mm)	Weight
NEW 150987	SBV-100T	100	0.05	100	100	100	13	3.7kg
NEW 150988	SBV-125T	125	0.06	125	125	125	16	6.7kg
NEW 150989	SBV-150T	150	0.06	150	150	150	18	12.2kg
NEW 150990	SBV-200T	200	0.07	200	200	200	25	28.1kg

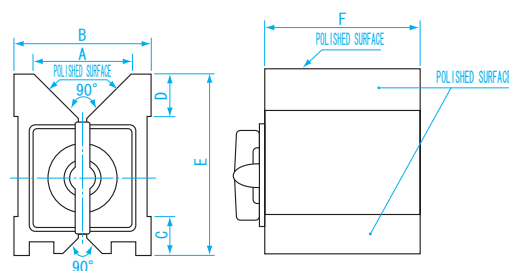
※ accuracy specified above is not guaranteed for open side

V BLOCK WITH MAGNET



MV-80

DIMENSIONS



- USE**
 - Use as a jig to hold cylindrical workpieces for measuring or marking
- MATERIALS**
 - Cast iron/ Ground finish
- FEATURES**
 - Right angle/ Parallelism: 0.025mm/100mm
 - The magnet can be turned ON/OFF by lever operation

Units : mm

Model No.	A	B	C	D	E	F
MV-80	50	70	20	22	95	80
MV-100	50	70	20	22	95	100
MV-120	50	70	20	22	95	120

Order No.	Model No.	H × W × D (mm)	Magnetic Power** N / (lb)	Weight
151191	MV-80	95×70× 80	140 (30)	3.3kg
151192	MV-100	95×70×100	180 (40)	4.1kg
151193	MV-120	95×70×120	200 (45)	4.9kg

※ Magnetic power when used with ϕ 20mm cylindrical workpiece

STANDARDS

GRANITE

CAST IRON
SURFACE
PLATE

PARALLEL
BLOCK

V BLOCK

SQUARE

STRAIGHT
EDGE

PARALLEL
CLAMPS



STEEL SQUARE (AA TYPE)

FIRST GRADE(Hardened)

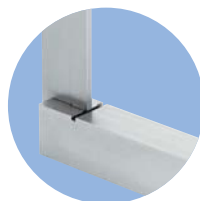
USE • Measurement of squareness

MATERIAL

- Machine grade carbon steel
- Hardness: Over HV450

FEATURES

- Dimension/ accuracy accordance to JIS B 7526 (※ exceeds JIS)
- Hardened measuring surface for abrasion resistance
- All Hardened, first grade squares are supplied with inspection certificate

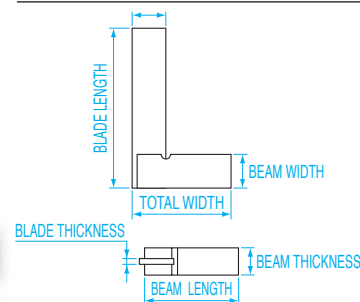


Corner



AA-F150

DIMENSIONS



$$\text{Squareness} \pm (10 + \frac{L}{20}) \mu\text{m} \text{ (L: Nominal Size)}$$

Order No.	Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Beam Length (mm)	Beam Width (mm)	Beam Thickness (mm)	Squareness Accuracy (±mm)	Weight
002101	AA-F50	※ 50	50	16	2	37	16	10	0.013	100g
002102	AA-F75	75	75	16	2	50	16	10	0.014	100g
002103	AA-F100	100	100	20	2.5	70	18	12	0.015	230g
002104	AA-F125	※ 125	125	20	2.5	80	18	12	0.016	250g
002105	AA-F150	150	150	24	3	100	22	18	0.018	550g
002107	AA-F200	200	200	29	3.5	130	26	22	0.02	880g
002108	AA-F250	※ 250	250	29	3.5	165	26	22	0.022	1.25kg
002109	AA-F300	300	300	35	4	200	32	27	0.025	1.95kg
002111	AA-F400	※ 400	400	40	5	200	40	27	0.03	3kg
002113	AA-F500	500	500	46	5	300	45	35	0.035	6kg
002114	AA-F600	※ 600	600	50	5	320	55	35	0.04	7kg
002115	AA-F750	750	750	58	6	400	63	50	0.048	16kg
002117	AA-F1000	1000	1000	65	10	550	80	65	0.06	35kg
—	AA-F1500	※ 1500	1500	90	10	600	90	80	0.085	38kg
—	AA-F2000	※ 2000	2000	100	10	800	105	90	0.11	67kg

SECOND GRADE (Non-hardened)

FEATURES

- Dimension and accuracy accordance to JIS B 7526 (※ exceeds JIS)
- Non-hardened • Ground finish

$$\text{Squareness} \pm (20 + \frac{L}{10}) \mu\text{m} \text{ (L: Nominal Size)}$$

Order No.	Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Beam Length (mm)	Beam Width (mm)	Beam Thickness (mm)	Squareness Accuracy (±mm)	Weight
002201	AA-S50	※50	50	16	2	37	16	10	0.025	60g
002202	AA-S75	75	75	16	2	50	16	10	0.027	90g
002203	AA-S100	100	100	20	2.5	70	18	12	0.03	180g
002204	AA-S125	※125	125	20	2.5	80	18	12	0.032	200g
002205	AA-S150	150	150	24	3	100	22	18	0.035	420g
002207	AA-S200	200	200	29	3.5	130	26	22	0.04	780g
002208	AA-S250	※250	250	29	3.5	165	26	22	0.045	1.02kg
002209	AA-S300	300	300	35	4	200	32	27	0.05	1.8kg
002211	AA-S400	※400	400	40	5	200	40	27	0.06	2.4kg
002213	AA-S500	500	500	46	5	300	45	35	0.07	5kg
002214	AA-S600	※600	600	50	5	320	55	35	0.08	6.5kg
002215	AA-S750	750	750	58	6	400	63	50	0.095	16kg
002217	AA-S1000	1000	1000	65	10	550	80	65	0.12	35kg
002219	AA-S1500	※1500	1500	90	10	600	90	80	0.17	38kg
—	AA-S2000	※2000	2000	100	10	800	105	90	0.22	67kg

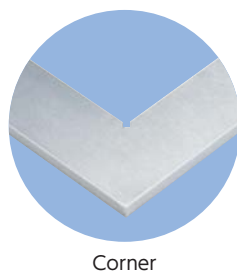
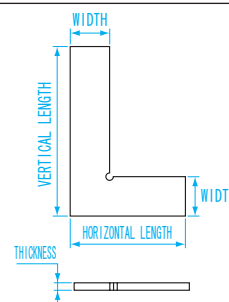
FIRST GRADE(Hardened)

■ **USE** • Measurement of squareness■ **MATERIAL**

- Machine grade carbon steel (hardened measuring face)
- Hardness : Over HV450

■ **FEATURES**

- Dimension/ accuracy accordance to JIS B 7526 (※ exceeds JIS)
- Hardened measuring surface for abrasion resistance
- All hardened, first grade squares are supplied with inspection certificate

■ **DIMENSIONS**

$$\text{Squareness} \pm \left(10 + \frac{L}{20}\right) \mu\text{m} \text{ (L: Nominal Size)}$$

Order No.	Model No.	Nominal Size (mm)	Vertical Length (mm)	Horizontal Length (mm)	Width (mm)	Thickness (mm)	Squareness Accuracy (±mm)	Weight
002301	DD-F50	※50	50	38	16	3	0.013	70g
002302	DD-F75	75	75	50	18	3	0.014	90g
002303	DD-F100	100	100	70	20	4	0.015	180g
002304	DD-F125	※125	125	80	20	4	0.016	200g
002305	DD-F150	150	150	100	25	5	0.018	400g
002307	DD-F200	200	200	130	25	6	0.02	550g
002308	DD-F250	※250	250	165	30	6	0.022	880g
002309	DD-F300	300	300	200	30	6	0.025	1kg
002311	DD-F400	※400	400	200	40	8	0.03	1.9kg
002313	DD-F500	500	500	300	40	8	0.035	2.5kg
002314	DD-F600	※600	600	325	50	10	0.04	4.3kg
002315	DD-F750	750	750	400	50	10	0.048	7kg
002317	DD-F1000	1000	1000	550	60	12	0.06	12kg
002319	DD-F1500	※1500	1500	750	80	12	0.085	19kg

SECOND GRADE (Non-Hardened)

■ **FEATURES**

- Dimensions/accuracy accordance to JIS B 7526 (※ exceeds JIS)
- Non-hardened • Ground finish

$$\text{Squareness} \pm \left(20 + \frac{L}{10}\right) \mu\text{m} \text{ (L: Nominal Size)}$$

Order No.	Model No.	Nominal Size (mm)	Vertical Length (mm)	Horizontal Length (mm)	Width (mm)	Thickness (mm)	Squareness Accuracy (±mm)	Weight
002401	DD-S50	※50	50	38	16	3	0.025	40g
002402	DD-S75	75	75	50	18	3	0.027	60g
002403	DD-S100	100	100	70	20	4	0.03	120g
002404	DD-S125	※125	125	80	20	4	0.032	150g
002405	DD-S150	150	150	100	25	5	0.035	220g
002407	DD-S200	200	200	130	25	6	0.04	380g
002408	DD-S250	※250	250	165	30	6	0.045	600g
002409	DD-S300	300	300	200	30	6	0.05	900g
002411	DD-S400	※400	400	200	40	8	0.06	1.8kg
002413	DD-S500	500	500	300	40	8	0.07	3kg
002414	DD-S600	※600	600	325	50	10	0.08	4kg
002415	DD-S750	750	750	400	50	10	0.095	7kg
002417	DD-S1000	1000	1000	550	60	12	0.12	12kg
002419	DD-S1500	※1500	1500	750	80	12	0.17	19kg

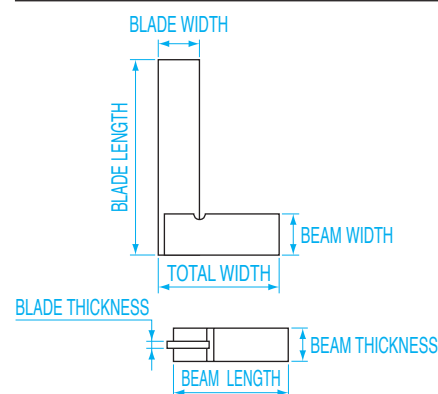


PRECISION SQUARE WITH METRIC GRADUATED BLADE (C TYPE)



C-150

DIMENSIONS



$$\text{Squareness} \pm (20 + \frac{L}{10}) \mu\text{m} \quad (L: \text{Nominal Size})$$

USE • Measurement of squareness

MATERIAL

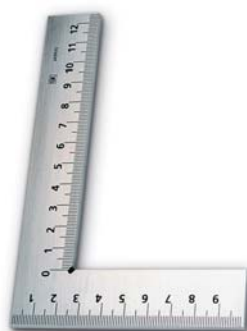
- Machine grade carbon steel

FEATURES

- Graduated with 1mm division
- JIS Grade 2 equivalent

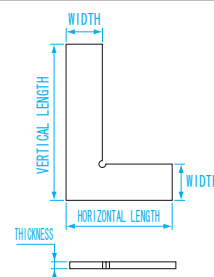
Order No.	Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Base Length (mm)	Base Width (mm)	Base Thickness (mm)	Graduation Accuracy (±mm)	Squareness (±mm)	Weight
002503	C-100	100	100	20	2.5	70	19	12	0.4	0.03	180g
002505	C-150	150	150	24	3	100	22	18	0.4	0.035	410g
002507	C-200	200	200	29	3.5	130	26	22	0.4	0.04	780g
002508	C-250	250	250	29	3.5	165	26	22	0.4	0.045	1.2kg
002509	C-300	300	300	35	4	200	32	27	0.4	0.05	1.9kg
—	C-400	400	400	40	5	200	40	27	0.4	0.06	2.4kg
002513	C-500	500	500	46	5	300	45	35	0.4	0.07	6kg
—	C-600	600	600	50	5	320	55	35	0.4	0.08	6.5kg
—	C-1000	1000	1000	65	10	550	80	65	0.4	0.12	35kg

PRECISION SQUARE WITH METRIC GRADUATED BLADE (E TYPE)



E-150

DIMENSIONS



$$\text{Squareness} \pm (20 + \frac{L}{10}) \mu\text{m} \quad (L: \text{Nominal Size})$$

Order No.	Model No.	Nominal Size (mm)	Vertical Length (mm)	Horizontal Length (mm)	Width (mm)	Thickness (mm)	Graduation Accuracy (±mm)	Squareness (±mm)	Weight
002603	E-100	100	100	70	20	4	0.4	0.03	120g
002605	E-150	150	150	100	25	5	0.4	0.035	280g
002607	E-200	200	200	130	25	6	0.4	0.04	430g
002608	E-250	250	250	165	30	6	0.4	0.045	600g
002609	E-300	300	300	200	40	8	0.4	0.05	750g
—	E-400	400	400	200	40	8	0.4	0.06	1.8kg
—	E-500	500	500	300	40	8	0.4	0.07	3kg
—	E-600	600	600	325	50	10	0.4	0.08	4kg
—	E-1000	1000	1000	550	60	12	0.4	0.12	12kg

USE • Measurement of squareness

MATERIAL

- Machine grade carbon steel

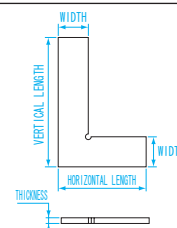
FEATURES

- The heavy duty 'DD' type is engineered for ultimate stability



HDD-150

DIMENSIONS



$$\text{Squareness} \pm \left(10 + \frac{L}{20}\right) \mu\text{m} \quad (L: \text{Nominal Size})$$

Order No.	Model No.	Nominal Size (mm)	Vertical Length (mm)	Base Length (mm)	Width (mm)	Thickness (mm)	Squareness ($\pm$ mm)	Weight
003501	HDD-50	50	50	35	15	10	0.013	170g
003502	HDD-75	75	75	50	18	12	0.014	320g
003503	HDD-100	100	100	70	20	15	0.015	530g
003505	HDD-150	150	150	100	25	20	0.018	1.34kg
003507	HDD-200	200	200	130	30	20	0.02	2kg
003508	HDD-250	250	250	165	30	25	0.022	3kg
003509	HDD-300	300	300	200	35	25	0.025	4kg

STEEL SQUARE WITH FLUSH MOUNTED BEAM

USE

- Measurement of squareness

MATERIAL

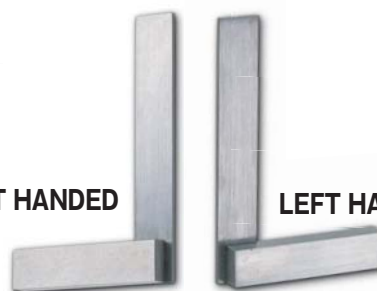
- Machine grade carbon steel

FEATURES

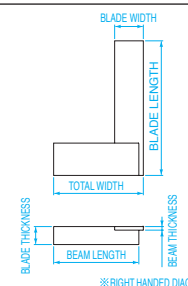
- Available in "right handed" and "left handed" versions
- Dimension/ accuracy accordance to JIS Grade 2
- JIS Grade 1 equivalent ($\text{Squareness} \pm \left(10 + \frac{L}{20}\right) \mu\text{m}$) is made to order

RIGHT HANDED

LEFT HANDED



DIMENSIONS



※ RIGHT HANDED DIAGR

$$\text{Squareness} \pm \left(20 + \frac{L}{10}\right) \mu\text{m} \quad (L: \text{Nominal Size})$$

RIGHT HANDED

Order No.	Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Beam Length (mm)	Beam Thickness (mm)	Squareness ($\pm$ mm)	Weight
—	TRS-R75	75	75	16	2	50	10	0.027	90g
003003	TRS-R100	100	100	20	2.5	70	12	0.03	230g
003005	TRS-R150	150	150	24	3	100	18	0.035	420g
003007	TRS-R200	200	200	29	3.5	130	22	0.04	780g
003009	TRS-R300	300	300	35	4	200	27	0.05	1.8kg
003011	TRS-R400	400	400	40	5	200	27	0.06	2.4kg
003013	TRS-R500	500	500	46	5	300	35	0.07	5kg
—	TRS-R600	600	600	50	5	320	35	0.08	6.5kg
—	TRS-R750	750	750	58	6	400	50	0.095	16kg
—	TRS-R1000	1000	1000	65	10	550	65	0.12	35kg
—	TRS-R1500	1500	1500	90	10	600	80	0.17	38kg
—	TRS-R2000	2000	2000	100	10	800	90	0.22	67kg

LEFT HANDED

Order No.	Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Beam Length (mm)	Beam Thickness (mm)	Straightness ($\pm$ mm)	Weight
—	TRS-L75	75	75	16	2	50	10	0.027	90g
003103	TRS-L100	100	100	20	2.5	70	12	0.03	230g
003105	TRS-L150	150	150	24	3	100	18	0.035	420g
003107	TRS-L200	200	200	29	3.5	130	22	0.04	780g
003109	TRS-L300	300	300	35	4	200	27	0.05	1.8kg
003111	TRS-L400	400	400	40	5	200	27	0.06	2.4kg
003113	TRS-L500	500	500	46	5	300	35	0.07	5kg
—	TRS-L600	600	600	50	5	320	35	0.08	6.5kg
—	TRS-L750	750	750	58	6	400	50	0.095	16kg
—	TRS-L1000	1000	1000	65	10	550	65	0.12	35kg
—	TRS-L1500	1500	1500	90	10	600	80	0.17	38kg
—	TRS-L2000	2000	2000	100	10	800	90	0.22	67kg

STANDARDS

GRANITE

CAST IRON
SURFACE
PLATE

PARALLEL
BLOCK

V BLOCK

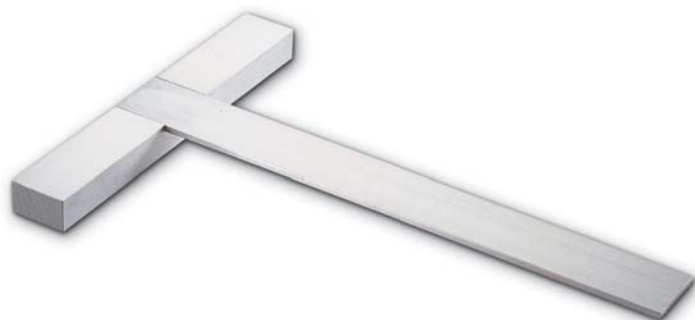
SQUARE

STRAIGHT
EDGE

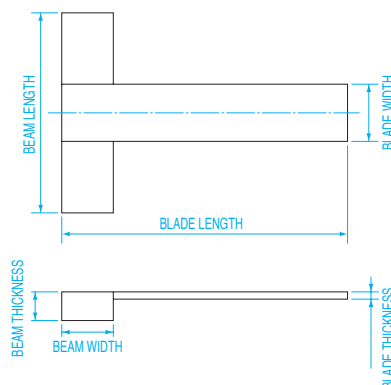
PARALLEL
CLAMPS



T- SQUARE



DIMENSIONS



FEATURES

- The blade and beam are permanently secured by rivets. The T-square is useful for general engineering work.

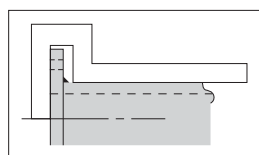
MATERIAL

- Machine grade carbon steel

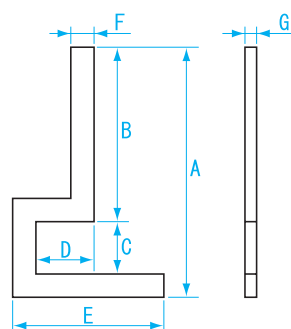
Straightness $\pm (20 + \frac{L}{10}) \mu m$ (L: Nominal Size)

Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Beam Length (mm)	Beam Width (mm)	Beam Thickness (mm)	Straightness ($\pm mm$)	Weight
TS-100	100	100	20	2.5	70	18	10	0.03	150g
TS-150	150	150	24	3	100	20	12	0.035	300g
TS-200	200	200	29	3.5	140	24	14	0.04	500g
TS-250	250	250	29	3.5	175	26	16	0.045	800g
TS-300	300	300	35	4	200	30	18	0.05	1.2kg
TS-400	400	400	40	5	260	34	20	0.06	2kg
TS-500	500	500	46	5	330	36	22	0.07	2.9kg
TS-600	600	600	50	5	360	38	24	0.08	3.7kg
TS-1000	1000	1000	65	8	640	45	30	0.12	11kg

FLANGE SQUARE



DIMENSIONS



Units : mm

Model No.	A	B	C	D	E	F	G
FS-1	300	200	70	80	200	30	4
FS-2	400	280	90	120	300	30	4
FS-3	750	500	200	250	680	50	6

USE

- Inspection of surfaces with flange, and piping connections

MATERIALS

- Rolled steel for general structure

Order No.	Model No.	Nominal Size (mm)	Straightness ($\pm mm$)	Weight
003320	FS-1	200×300	0.037	800g
003330	FS-2	300×400	0.045	1kg
003368	FS-3	680×750	0.071	4kg

I-BEAM TYPE PRECISION STRAIGHT EDGE



STANDARDS

05

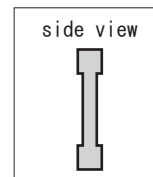
USE • Measurement of flatness, parallelism and straightness

MATERIAL

- Machine grade carbon steel

FEATURES

- Inspection certificate attached



Grade A / Hardened ● Hardness:HV490 ~ 620

Order No.	Model No.	Nominal Size (mm)	Straightness (μm)	Length (mm)	Height (mm)	Width (mm)	Weight
004113	IBM-A500H	500	7	500	50	10	1.5kg
004115	IBM-A750H	750	9.5	750	50	10	3.2kg
004117	IBM-A1000H	1000	12	1000	60	12	5kg
004119	IBM-A1500H	1500	17	1500	70	15	8.5kg
004121	IBM-A2000H	2000	22	2000	90	20	19kg
	IBM-A2500H	2500	27	2500	100	20	27kg
004123	IBM-A3000H	3000	32	3000	120	20	44kg

Grade A / Non-hardened

Straightness $(2 + \frac{L}{100}) \mu m$ (L: Nominal Size)

Order No.	Model No.	Nominal Size (mm)	Straightness (μm)	Length (mm)	Height (mm)	Width (mm)	Weight
004013	IBM-A500	500	7	500	50	10	1.5kg
004015	IBM-A750	750	9.5	750	50	10	3.2kg
004017	IBM-A1000	1000	12	1000	60	12	5kg
004019	IBM-A1500	1500	17	1500	70	15	8.5kg
004021	IBM-A2000	2000	22	2000	90	20	19kg
	IBM-A2500	2500	27	2500	90	20	27kg
004023	IBM-A3000	3000	32	3000	120	20	44kg

RAIL TYPE PRECISION STRAIGHT EDGE



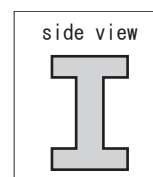
USE • Measurement of flatness, parallelism and straightness

MATERIAL

- Machine grade carbon steel

FEATURES

- Usable for precision machine installation, flatness inspection of surface plate etc
- Ground finish
- Inspection certificate attached



Grade A / Hardened ● Hardness: HV490 ~ 620

Straightness $(2 + \frac{L}{250}) \mu m$ (L: Nominal Size)

Order No.	Model No.	Nominal Size (mm)	Straightness (μm)	Length (mm)	Height (mm)	Width (mm)	Weight
004417	R-A1000H	1000	6	1000	75	50	18.5kg
004419	R-A1500H	1500	8	1500	90	50	33kg
004421	R-A2000H	2000	10	2000	120	50	56kg
004422	R-A2500H	2500	12	2500	140	50	76.5kg
004423	R-A3000H	3000	14	3000	150	50	103kg

Grade A / Non-hardened

Straightness $(2 + \frac{L}{250}) \mu m$ (L: Nominal Size)

Order No.	Model No.	Nominal Size (mm)	Straightness (μm)	Length (mm)	Height (mm)	Width (mm)	Weight
004317	R-A1000	1000	6	1000	75	50	18.5kg
004319	R-A1500	1500	8	1500	90	50	33kg
004321	R-A2000	2000	10	2000	120	50	56kg
004322	R-A2500	2500	12	2500	140	50	76.5kg
004323	R-A3000	3000	14	3000	150	50	103kg

Grade B / Hardened ● Hardness: HV490 ~ 620

Straightness $(4 + \frac{L}{50}) \mu m$ (L: Nominal Size)

Order No.	Model No.	Nominal Size (mm)	Straightness (μm)	Length (mm)	Height (mm)	Width (mm)	Weight
004617	R-B1000H	1000	22	1000	75	50	18.5kg
004619	R-B1500H	1500	34	1500	90	50	33kg
004621	R-B2000H	2000	44	2000	120	50	56kg
004622	R-B2500H	2500	54	2500	140	50	76.5kg
004623	R-B3000H	3000	64	3000	150	50	103kg

Grade B / Non-hardened

Straightness $(4 + \frac{L}{50}) \mu m$ (L: Nominal Size)

Order No.	Model No.	Nominal Size (mm)	Straightness (μm)	Length (mm)	Height (mm)	Width (mm)	Weight
004517	R-B1000	1000	24	1000	75	50	18.5kg
004519	R-B1500	1500	34	1500	90	50	33kg
004521	R-B2000	2000	44	2000	120	50	56kg
004522	R-B2500	2500	54	2500	140	50	76.5kg
004523	R-B3000	3000	64	3000	150	50	103kg

STANDARDS

GRANITE

CAST IRON
SURFACE
PLATE

PARALLEL
BLOCK

V BLOCK

SQUARE

STRAIGHT
EDGE

PARALLEL
CLAMPS



STEEL STANDARD STRAIGHT EDGE



USE • Measurement of flatness, parallelism, straightness

FEATURES

- Measuring surface : Ground finish
- Inspection certificate attached

MATERIAL

- Machine grade carbon steel



side view



Grade A/ Hardened (Hardness: HV490-620)

Straightness: $(2 + \frac{L}{100}) \mu\text{m}$ (L : Nominal Size)

Order No.	Model No.	Nominal Size (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight
—	ST-A500H	500	500	50	10	2kg
—	ST-A750H	750	750	50	10	3kg
004917	ST-A1000H	1000	1000	60	12	5.7kg
—	ST-A1500H	1500	1500	70	15	12.5kg
004921	ST-A2000H	2000	2000	80	18	23kg
—	ST-A2500H	2500	2500	100	18	35kg
—	ST-A3000H	3000	3000	140	25	82kg

Grade A/ Non-hardened

Order No.	Model No.	Nominal Size (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight
—	ST-A500	500	500	50	10	2kg
—	ST-A750	750	750	50	10	3kg
004817	ST-A1000	1000	1000	60	12	5.7kg
—	ST-A1500	1500	1500	70	15	12.5kg
004821	ST-A2000	2000	2000	80	18	23kg
—	ST-A2500	2500	2500	100	18	35kg
—	ST-A3000	3000	3000	140	25	82kg

STEEL STANDARD STRAIGHT EDGE WITH GRADUATIONS



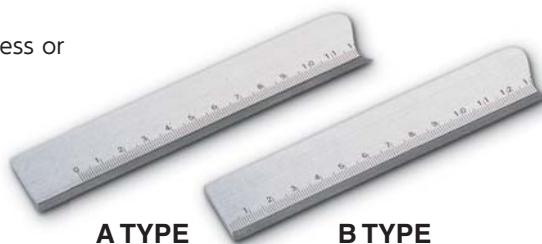
USE • Measurement of flatness, parallelism, straightness or use for precision marking

FEATURES

- Measuring face: Ground finish
- A type: Scale interval of 1 mm, graduated on single side (20mm blank space on both edges)
- B type: 0 point graduated start from left edge

MATERIAL

- Machine grade carbon steel



A TYPE

B TYPE

side view



A type

A type: Straightness $(10 + \frac{L}{50}) \mu\text{m}$ (L : Nominal Size)

Order No	Model No.	Nominal Size (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight
005013	STG-A500	500	500	25	6	2kg
005015	STG-A750	750	750	30	6	3kg
005017	STG-A1000	1000	1000	30	6	5.7kg
005019	STG-A1500	1500	1500	32	6	12.6kg
005021	STG-A2000	2000	2000	40	8	23kg
005023	STG-A3000	3000	3000	50	10	36kg

B type

B type : Straightness $(10 + \frac{L}{25}) \mu\text{m}$ (L : Nominal Size)

Order No.	Model No.	Nominal Size (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight
005113	STG-B500	500	500	25	6	2kg
005115	STG-B750	750	750	25	6	3kg
005117	STG-B1000	1000	1000	30	6	5.7kg
005119	STG-B1500	1500	1500	32	6	12.6kg
005121	STG-B2000	2000	2000	40	8	23kg
005123	STG-B3000	3000	3000	50	10	36kg

STRAIGHT EDGE STANDARD TYPE



STANDARDS

05



side view



- FEATURES**
- Standard type straight edges are popular for executing more accurate lines
 - Measuring face: Ground finish

- MATERIAL** • Carbon tool steel for machine use

Grade A / Hardened

- Hardness: HV490 ~ 620 • Grade A: Straightness $(10 + \frac{L}{50}) \mu\text{m}$ • Grade B: Straightness $(20 + \frac{L}{25}) \mu\text{m}$ ※ Grade B is made to order
※ L : Nominal Size

Order No.	Model No.	Nominal Size (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight
005305	S-A150H	150	150	24	3	80g
005307	S-A200H	200	200	24	3	110g
005308	S-A250H	250	250	30	4	340g
005309	S-A300H	300	300	35	5	410g
005312	S-A450H	450	450	40	5	710g
005313	S-A500H	500	500	40	5	800g
005314	S-A600H	600	600	40	5	900g
005315	S-A750H	750	750	50	6	2kg
005317	S-A1000H	1000	1000	50	6	2.6kg
005319	S-A1500H	1500	1500	75	6	5.7kg
005321	S-A2000H	2000	2000	85	8	10.7kg
005322	S-A2500H	2500	2500	95	10	19kg
005323	S-A3000H	3000	3000	100	10	24kg

- Grade A / Non-hardened • Grade A: Straightness $(10 + \frac{L}{50}) \mu\text{m}$ • Grade B: Straightness $(20 + \frac{L}{25}) \mu\text{m}$ ※ Grade B is made to order
※ L : Nominal Size

Order No.	Model No.	Nominal Size (mm)	Length (mm)	Width (mm)	Thickness (mm)	Weight
005205	S-A150	150	150	24	3	80g
005207	S-A200	200	200	24	3	110g
005208	S-A250	250	250	30	4	340g
005209	S-A300	300	300	35	5	410g
005212	S-A450	450	450	40	5	710g
005213	S-A500	500	500	40	5	800g
005214	S-A600	600	600	40	5	900g
005215	S-A750	750	750	50	6	2kg
005217	S-A1000	1000	1000	50	6	2.6kg
005219	S-A1500	1500	1500	75	6	5.7kg
005221	S-A2000	2000	2000	85	8	10.7kg
005222	S-A2500	2500	2500	95	10	19kg
005223	S-A3000	3000	3000	100	10	24kg

STRAIGHT EDGE BEVELED TYPE



STANDARDS



side view



- FEATURES**
- Beveled type straight edges are popular for executing more accurate lines
 - Measuring face: Ground finish

- MATERIAL** • Machine grade carbon steel

Grade A / Non-hardened

- Hardness: HV490 ~ 620 • Grade A: Straightness: $(10 + \frac{L}{50}) \mu\text{m}$ • Grade B: Straightness $(20 + \frac{L}{25}) \mu\text{m}$ ※ Grade B is made to order
※ L : Nominal Size

Order No.	Model No.	Nominal Size (mm)	Length (mm)	Width (mm)	Thickness (mm)	Taper (mm)	Blade Thickness (mm)	Weight
005505	B-A150H	150	150	24	3	5.5	0.5	80g
005507	B-A200H	200	200	24	3	5.5	0.5	100g
005508	B-A250H	250	250	30	4	8.0	0.5	300g
005509	B-A300H	300	300	35	5	10.0	0.5	400g
005512	B-A450H	450	450	40	5	10.0	0.5	650g
005513	B-A500H	500	500	40	5	10.0	0.5	700g
005514	B-A600H	600	600	40	5	12.0	0.5	850g
005515	B-A750H	750	750	50	6	12.6	0.8	1.75kg
005517	B-A1000H	1000	1000	50	6	12.6	0.8	2.3kg
005519	B-A1500H	1500	1500	75	6	12.6	0.8	5.2kg
005521	B-A2000H	2000	2000	85	8	14.6	1.5	10kg
—	B-A2500H	2500	2500	95	10	19.0	1.5	17kg
—	B-A3000H	3000	3000	100	10	19.0	2.0	21kg

- Grade A / Non-hardened • Grade A: Straightness $(10 + \frac{L}{50}) \mu\text{m}$ • Grade B: Straightness $(20 + \frac{L}{25}) \mu\text{m}$ ※ Grade B is made to order
※ L : Nominal Size

Order No.	Model No.	Nominal Size (mm)	Length (mm)	Width (mm)	Thickness (mm)	Taper (mm)	Blade Thickness (mm)	Weight
005405	B-A150	150	150	24	3	5.5	0.5	80g
005407	B-A200	200	200	24	3	5.5	0.5	100g
005408	B-A250	250	250	30	4	8.0	0.5	300g
005409	B-A300	300	300	35	5	10.0	0.5	400g
005412	B-A450	450	450	40	5	10.0	0.5	650g
005413	B-A500	500	500	40	5	10.0	0.5	700g
005414	B-A600	600	600	40	5	12.0	0.5	850g
005415	B-A750	750	750	50	6	12.6	0.8	1.75kg
005417	B-A1000	1000	1000	50	6	12.6	0.8	2.3kg
005419	B-A1500	1500	1500	75	6	12.6	0.8	5.2kg
005421	B-A2000	2000	2000	85	8	14.6	1.5	10kg
005422	B-A2500	2500	2500	95	10	19.0	1.5	17kg
005423	B-A3000	3000	3000	100	10	19.0	2.0	21kg

GRANITE

CAST IRON
SURFACE
PLATE

PARALLEL
BLOCK

V BLOCK

SQUARE

STRAIGHT
EDGE

PARALLEL
CLAMPS

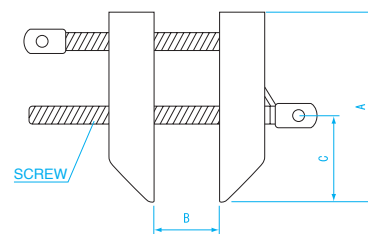


HARDENED PARALLEL CLAMP



PC-100

DIMENSIONS



FEATURES

- These parallel clamps are designed to maximize clamping leverage. All major parts are made of hardened steel with a smart black finish
- 2 piece body and screws are hardened
- 2 pcs / set

MATERIAL

- Carbon steel for machine use
- Hardness : HV390 ~ 450

Order No.	Model No.	Nominal Size (mm)	A (mm)	B(Max) (mm)	C (mm)	Thread size	Weight
006501	PC-38	38	40	20	18	M5×P0.9	150g
006502	PC-50	50	50	30	20	M5×P0.9	200g
006503	PC-65	65	65	40	25	M6×P1.0	350g
006504	PC-75	75	75	60	30	M6×P1.0	400g
006505	PC-100	100	100	60	38	M7×P1.0	700g
006506	PC-125	125	125	80	50	M8×P1.25	1.2kg
006507	PC-150	150	150	100	58	M10×P1.5	2kg
006508	PC-200	200	200	120	65	W1/2-12	4.6kg
006509	PC-250	250	250	180	100	M16×P2.0	9kg
006510	PC-300	300	300	230	120	M20×P2.5	15kg

STANDARDS

GRANITE

CAST IRON
SURFACE
PLATEPARALLEL
BLOCK

V BLOCK

SQUARE

STRAIGHT
EDGEPARALLEL
CLAMPS