



# STEEL SQUARE (AA TYPE)



## FIRST GRADE(Hardened)

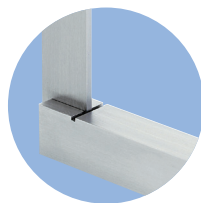
**USE** • Measurement of squareness

### 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

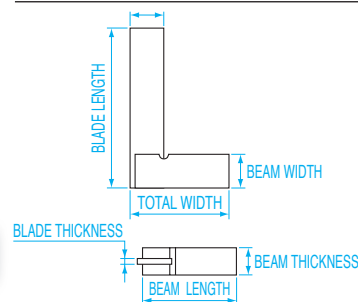


Corner



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
002119	AA-F1500	※ 1500	1500	90	10	600	90	80	0.085	38kg
002121	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
002221	AA-S2000	※2000	2000	100	10	800	105	90	0.22	67kg

## FIRST GRADE(Hardened)

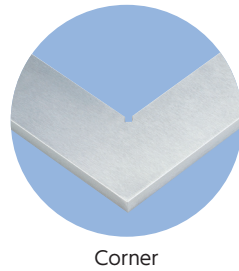
**USE** • Measurement of squareness

**MATERIAL**

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

**FEATURES**

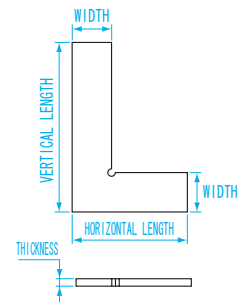
- Dimension/ accuracy accordance to JIS B 7526 (※ exceeds JIS)
- Hardened measuring surface for abrasion resistance
- All hardened, first grade squares are supplied with inspection certificate



Corner



## DIMENSIONS



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

Order No.	Model No.	Nominal Size (mm)	Vertical Length (mm)	Horizontal Length (mm)	Width (mm)	Thickness (mm)	Squareness Accuracy ( $\pm$ 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

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

Order No.	Model No.	Nominal Size (mm)	Vertical Length (mm)	Horizontal Length (mm)	Width (mm)	Thickness (mm)	Squareness Accuracy ( $\pm$ 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

GRANITE

CAST IRON SURFACE PLATE

PARALLEL BLOCK

V BLOCK

SQUARE

STRAIGHT EDGE

PARALLEL CLAMPS

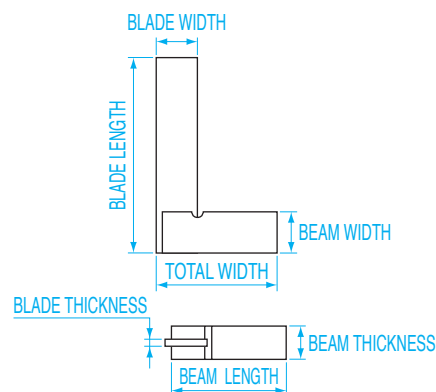


## PRECISION SQUARE WITH METRIC GRADUATED BLADE (C TYPE)



C-150

## DIMENSIONS



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

**USE** • Measurement of squareness

**MATERIAL**

- Machine grade carbon steel

**FEATURES**

- Graduated with 1 mm division
- JIS Grade 2 equivalent

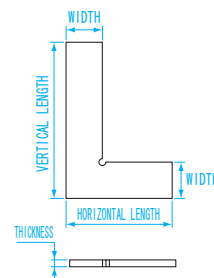
Order No.	Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Base Length (mm)	Base Width (mm)	Base Thickness (mm)	Graduation Accuracy (±mm)	Squareness (±mm)	Weight
002503	C-100	100	100	20	2.5	70	19	12	0.4	0.03	180g
002505	C-150	150	150	24	3	100	22	18	0.4	0.035	410g
002507	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
002511	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
002515	C-600	600	600	50	5	320	55	35	0.4	0.08	6.5kg
002523	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



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

**USE** • Measurement of squareness

**MATERIAL**

- Machine grade carbon steel

**FEATURES**

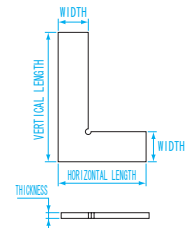
- Graduated with 1 mm division
- JIS Grade 2 equivalent

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
002611	E-400	400	400	200	40	8	0.4	0.06	1.8kg
002613	E-500	500	500	300	40	8	0.4	0.07	3kg
002615	E-600	600	600	325	50	10	0.4	0.08	4kg
002623	E-1000	1000	1000	550	60	12	0.4	0.12	12kg

# HEAVY DUTY STEEL SQUARE (DD TYPE)



## DIMENSIONS

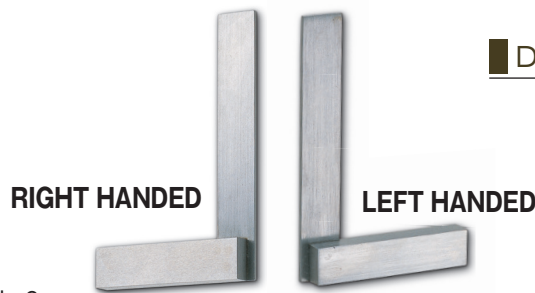


Squareness  $\pm (10 + \frac{L}{20}) \mu\text{m}$  (L: Nominal Size)

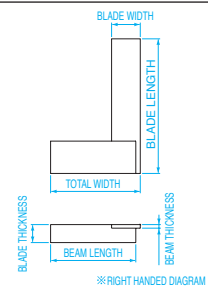
- USE** • Measurement of squareness
- MATERIAL**
  - Machine grade carbon steel
- FEATURES**
  - The heavy duty 'DD' type is engineered for ultimate stability

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



## DIMENSIONS



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

- 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 (Squareness  $\pm (10 + \frac{L}{20}) \mu\text{m}$ ) is made to order

### RIGHT HANDED

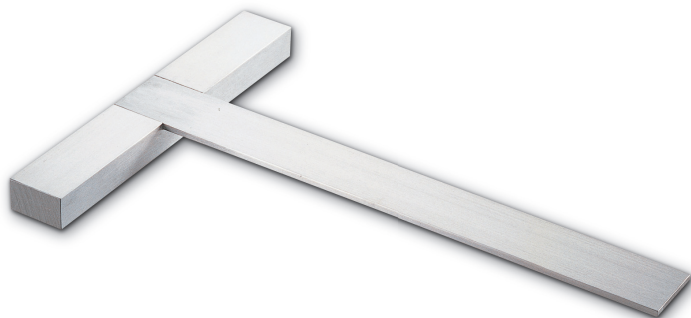
Order No.	Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Beam Length (mm)	Beam Thickness (mm)	Squareness ( $\pm$ mm)	Weight
003002	TRS-R75	75	75	16	2	50	10	0.027	90g
003003	TRS-R100	100	100	20	2.5	70	12	0.03	230g
003005	TRS-R150	150	150	24	3	100	18	0.035	420g
003007	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
003015	TRS-R600	600	600	50	5	320	35	0.08	6.5kg
003018	TRS-R750	750	750	58	6	400	50	0.095	16kg
003023	TRS-R1000	1000	1000	65	10	550	65	0.12	35kg
003025	TRS-R1500	1500	1500	90	10	600	80	0.17	38kg
003027	TRS-R2000	2000	2000	100	10	800	90	0.22	67kg

### LEFT HANDED

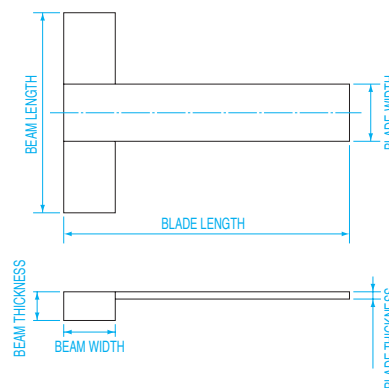
Order No.	Model No.	Nominal Size (mm)	Blade Length (mm)	Blade Width (mm)	Blade Thickness (mm)	Beam Length (mm)	Beam Thickness (mm)	Straightness ( $\pm$ mm)	Weight
003102	TRS-L75	75	75	16	2	50	10	0.027	90g
003103	TRS-L100	100	100	20	2.5	70	12	0.03	230g
003105	TRS-L150	150	150	24	3	100	18	0.035	420g
003107	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
003115	TRS-L600	600	600	50	5	320	35	0.08	6.5kg
003118	TRS-L750	750	750	58	6	400	50	0.095	16kg
003123	TRS-L1000	1000	1000	65	10	550	65	0.12	35kg
003125	TRS-L1500	1500	1500	90	10	600	80	0.17	38kg
003127	TRS-L2000	2000	2000	100	10	800	90	0.22	67kg



## T- SQUARE



## DIMENSIONS



## FEATURES

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

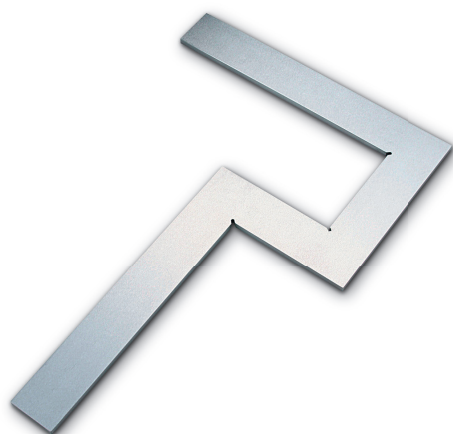
## MATERIAL

- Machine grade carbon steel

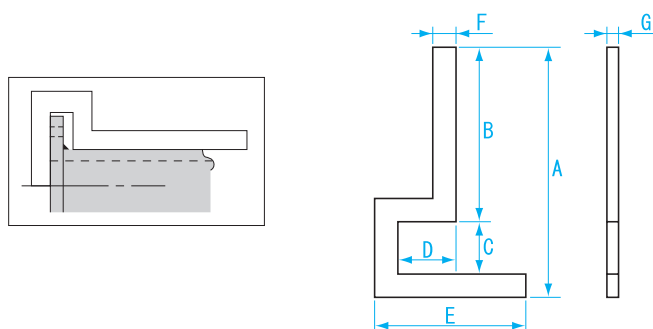
Straightness  $\pm (20 + \frac{L}{10}) \mu\text{m}$  (L: Nominal Size)

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



## STEEL STANDARD STRAIGHT EDGE



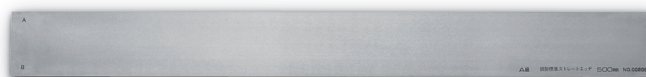
**USE** • Measurement of flatness, parallelism, straightness

**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
004913	ST-A500H	500	500	50	10	2kg
004915	ST-A750H	750	750	50	10	3kg
004917	ST-A1000H	1000	1000	60	12	5.7kg
004919	ST-A1500H	1500	1500	70	15	12.5kg
004921	ST-A2000H	2000	2000	80	18	23kg
004922	ST-A2500H	2500	2500	100	18	35kg
004923	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
004813	ST-A500	500	500	50	10	2kg
004815	ST-A750	750	750	50	10	3kg
004817	ST-A1000	1000	1000	60	12	5.7kg
004819	ST-A1500	1500	1500	70	15	12.5kg
004821	ST-A2000	2000	2000	80	18	23kg
004822	ST-A2500	2500	2500	100	18	35kg
004823	ST-A3000	3000	3000	140	25	82kg

## STEEL STANDARD STRAIGHT EDGE WITH GRADUATIONS



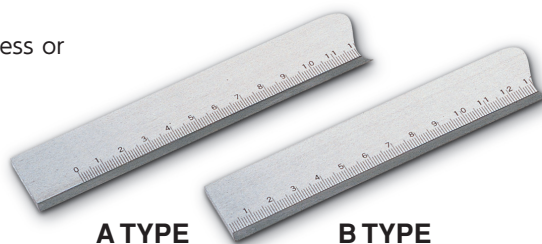
**USE** • Measurement of flatness, parallelism, straightness or use for precision marking

**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	0.6kg
005015	STG-A750	750	750	30	6	1.1kg
005017	STG-A1000	1000	1000	30	6	1.4kg
005019	STG-A1500	1500	1500	32	6	2.3kg
005021	STG-A2000	2000	2000	40	8	5kg
005023	STG-A3000	3000	3000	50	10	11.7kg

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	0.6kg
005115	STG-B750	750	750	25	6	1.1kg
005117	STG-B1000	1000	1000	30	6	1.4kg
005119	STG-B1500	1500	1500	32	6	2.3kg
005121	STG-B2000	2000	2000	40	8	5kg
005123	STG-B3000	3000	3000	50	10	11.7kg