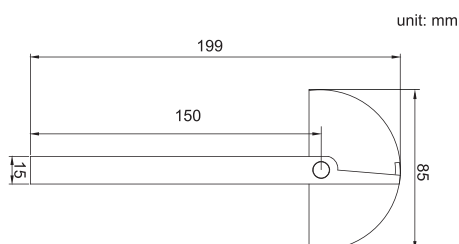


811

PROTRACTOR

- ◆ Graduation : 1°
- ◆ Made of stainless steel
- ◆ Satin chrome plated scale
- ◆ With locking screw



Code	Size	Range	Accuracy
811-180-01	85x150mm	0 - 180°	±0.3°

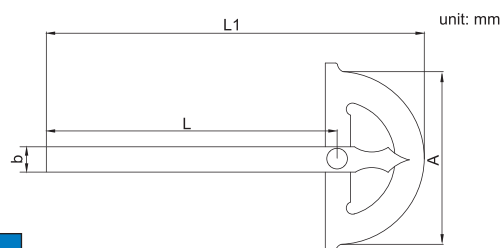
SERIES 812

PROTRACTOR

- ◆ Graduation : 1°
- ◆ Satin chrome plated scale
- ◆ With locking screw



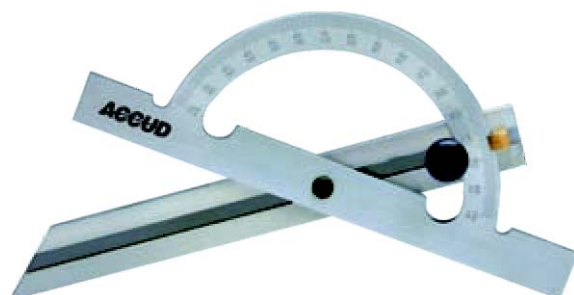
812-003-01



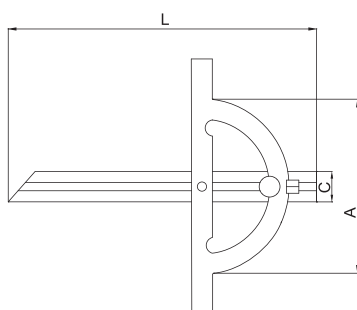
Code	Size(AxL)	Range	Accuracy	b	L1
812-003-01	80x120mm	0 - 180°	±0.3°	11	168
812-005-01	120x150mm	0 - 180°	±0.3°	14	220
812-006-01	150x200mm	0 - 180°	±0.3°	16	285
812-008-01	200x300mm	0 - 180°	±0.3°	20	413
812-012-01	300x500mm	0 - 180°	±0.3°	30	675

PROTRACTOR

SERIES 813



813-006-01

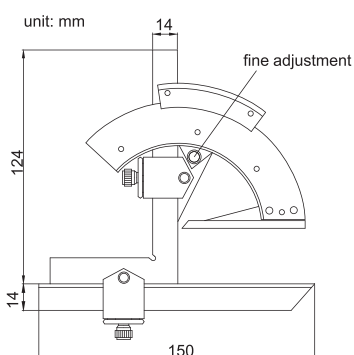
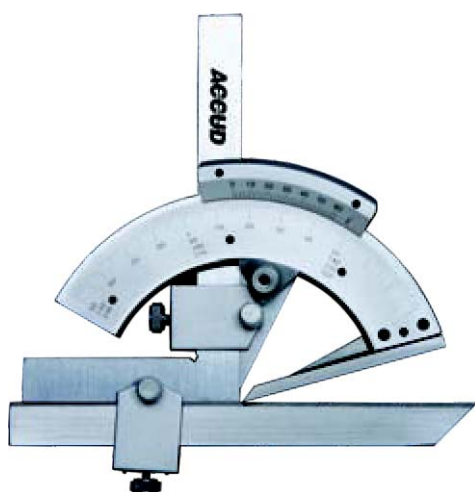


- ◆ Graduation : 1°
- ◆ Made of stainless steel
- ◆ Satin chrome plated scale
- ◆ The blade is moveable

Code	Size (A x L)	Range	Accuracy	C
813-006-01	100x150mm	10 - 170°	±0.3°	18
813-012-01	150x300mm	10 - 170°	±0.3°	18
813-016-01	200x400mm	10 - 170°	±0.3°	20
813-020-01	250x500mm	10 - 170°	±0.3°	20
813-024-01	300x600mm	10 - 170°	±0.3°	20

UNIVERSAL PROTRACTOR

814



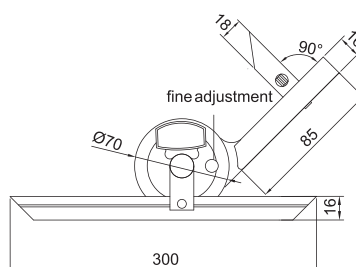
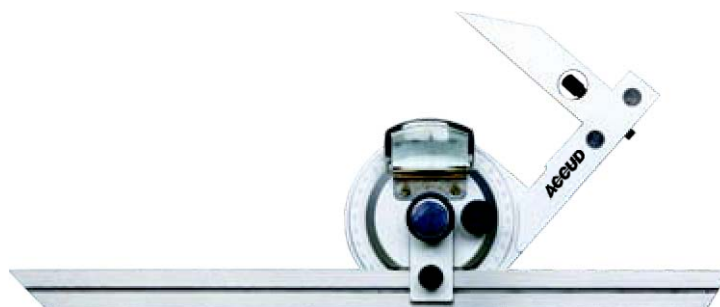
- ◆ Graduation : 2'
- ◆ Made of stainless steel
- ◆ Satin chrome plated scale

Code	Range	Accuracy
814-320-01	0 - 320°	±2'

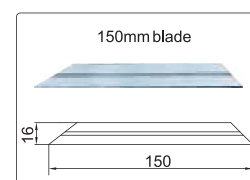
815

UNIVERSAL PROTRACTOR

- ◆ Graduation : 5'
- ◆ Parallax-free reading
- ◆ With one blade: 150mm
- ◆ Made of stainless steel
- ◆ Optional accessory: clamp for height gages



unit: mm

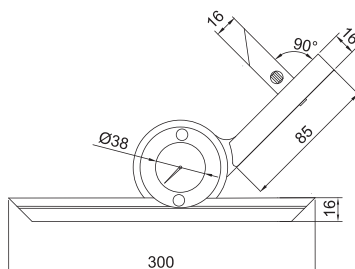


Code	Range	Accuracy
815-360-01	0 - 360°	±5'

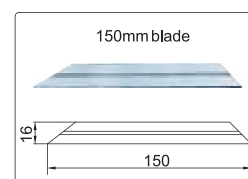
816

UNIVERSAL PROTRACTOR

- ◆ Graduation : 5'
- ◆ With one blade: 150mm
- ◆ Made of carbon steel
- ◆ Optional accessory: clamp for height gages



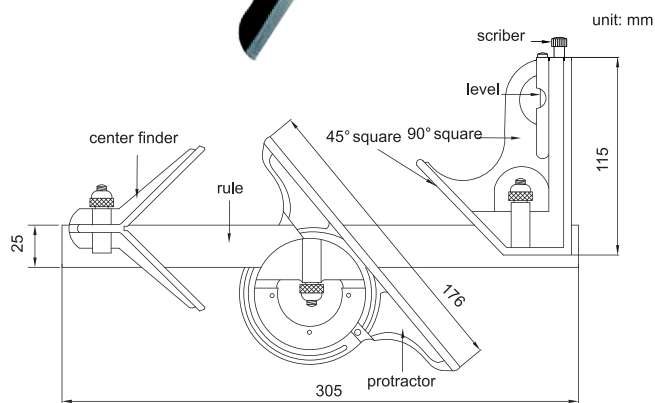
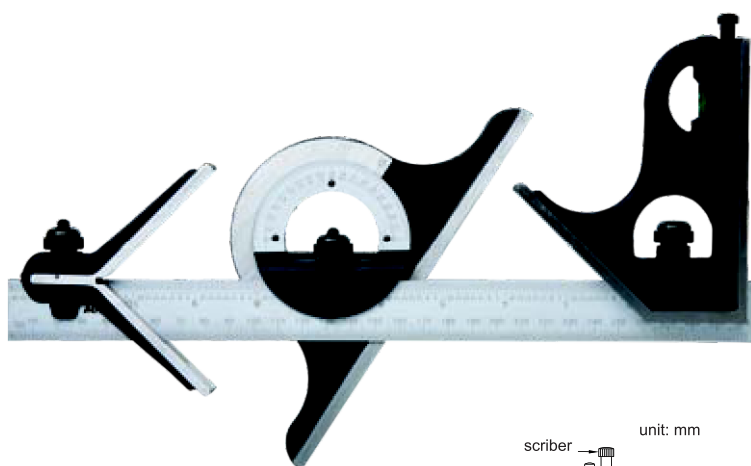
unit: mm



Code	Range	Accuracy
816-360-01	0 - 360°	±5'

COMBINATION SQUARE SET

817



- ◆ Protractor:
Used to set an angle or angle measurement,
measuring range: 0-180°, accuracy: $\pm 7'$
- ◆ Square:
Used as 90° square or 45° square
accuracy of 90° square: $\pm 8'$,
accuracy of 45° square: $\pm 10'$
- ◆ Rule:
Used as rule, measuring range: 300mm/12"
- ◆ Center finder:
Used to find the cylinder center,
accuracy: $\pm 0.15\text{mm}$

Code

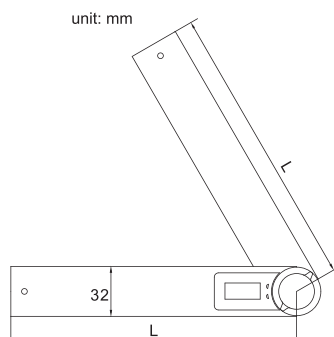
817-180-02

DIGITAL PROTRACTOR

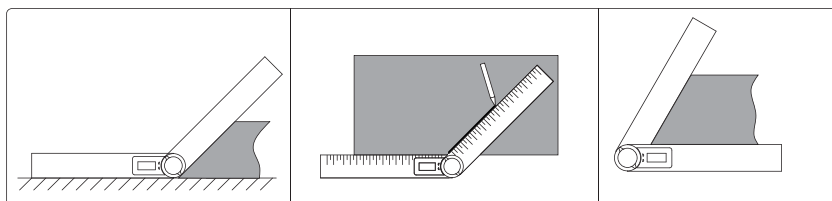
SERIES 821



821-008-01



- ◆ Resolution: 0.1°
- ◆ Buttons: on/off, zero
- ◆ With locking attachment
- ◆ Rule graduation: 1mm and 1/32"
- ◆ Auto power off

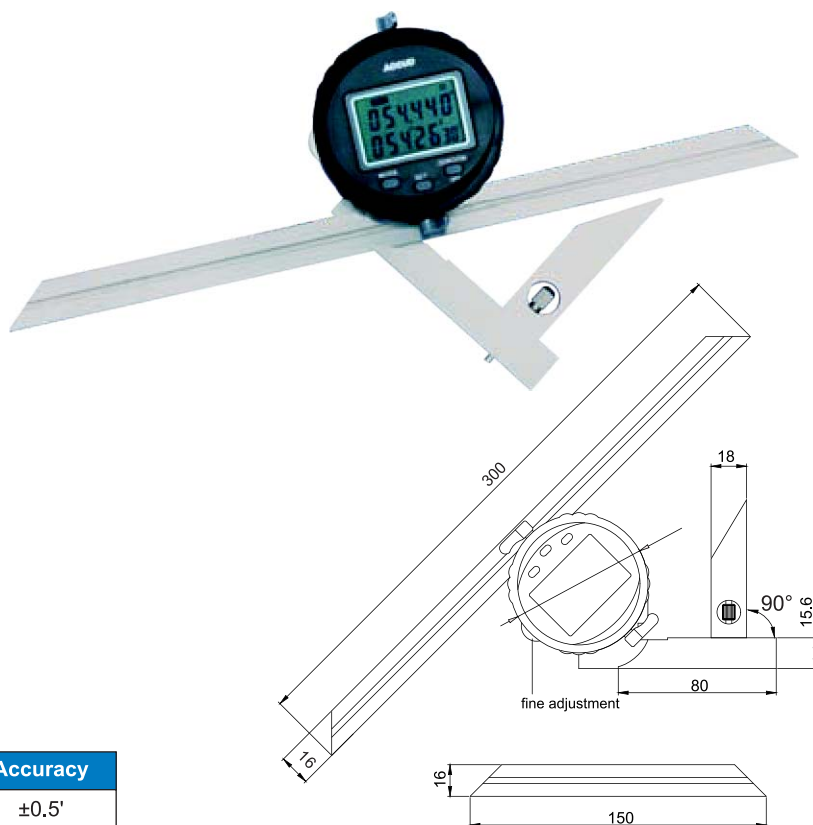


Code	Size(L)	Range	Accuracy
821-008-01	200mm	0 - 360°	$\pm 0.3^\circ$
821-012-01	300mm	0 - 360°	$\pm 0.3^\circ$

822

DIGITAL PROTRACTOR

- ◆ Button function:
SET: preset the reading and change the measuring direction
MODE: choose range 90°, 180°, 360°
ZERO/ON/OFF: set zero and power on/off
- ◆ Data output
- ◆ With a 150mm blade and a 90° square
- ◆ Made of stainless steel



Code	Range	Resolution	Accuracy
822-360-01	0 - 360°	0.1°	±0.5'

SERIES 832

90° BEVELED EDGE SQUARE

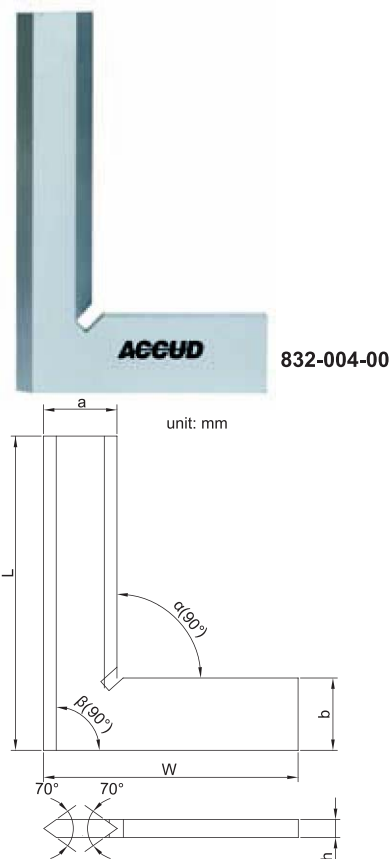
- ◆ Two beveled measuring faces
- ◆ Made of hardened stainless steel
- ◆ Satin chrome plating

Grade 0

Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	h
832-002-10	50x40mm	6 μ m	6 μ m	13	13	4
832-003-10	75x50mm	6 μ m	7 μ m	15	15	4
832-004-10	100x70mm	7 μ m	7 μ m	20	20	5
832-006-10	150x100mm	7 μ m	8 μ m	30	30	6
832-008-10	200x130mm	8 μ m	9 μ m	34	34	7
832-010-10	250x165mm	9 μ m	10 μ m	35	35	7
832-012-10	300x200mm	10 μ m	11 μ m	40	40	8

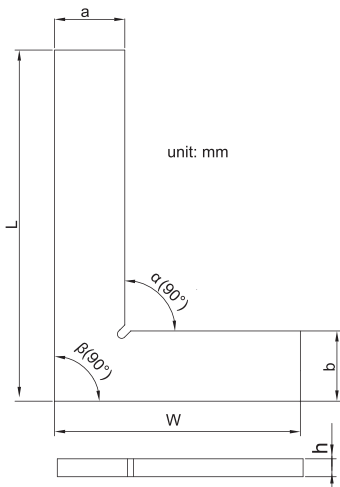
Grade 00

Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	h
832-002-00	50x40mm	2.4 μ m	2.5 μ m	13	13	4
832-003-00	75x50mm	2.6 μ m	2.8 μ m	15	15	4
832-004-00	100x70mm	2.8 μ m	3.0 μ m	20	20	5
832-006-00	150x100mm	3.2 μ m	3.5 μ m	30	30	6
832-008-00	200x130mm	3.7 μ m	4.0 μ m	34	34	7
832-010-00	250x165mm	4.2 μ m	4.5 μ m	35	35	7
832-012-00	300x200mm	4.6 μ m	5.0 μ m	40	40	8



90° FLAT EDGE SQUARE

SERIES 841

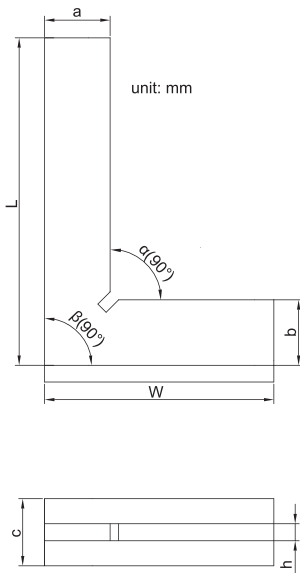


- ◆ DIN875 grade 0
- ◆ Made of hardened stainless steel

Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	h
841-002-10	50x40mm	6 μ m	6 μ m	13	13	4
841-003-10	75x50mm	6 μ m	7 μ m	15	15	4
841-004-10	100x70mm	7 μ m	7 μ m	20	20	5
841-006-10	150x100mm	7 μ m	8 μ m	30	30	6
841-008-10	200x130mm	8 μ m	9 μ m	34	34	7
841-010-10	250x165mm	9 μ m	10 μ m	35	35	7
841-012-10	300x200mm	10 μ m	11 μ m	40	40	8

90° FLAT EDGE SQUARE WITH WIDE BASE

SERIES 842



- ◆ DIN875 grade 0
- ◆ Made of hardened stainless steel

Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	c	h
842-002-10	50x40mm	6 μ m	6 μ m	13	13	13	4
842-003-10	75x50mm	6 μ m	6 μ m	15	15	15	4
842-004-10	100x70mm	7 μ m	7 μ m	20	20	20	5
842-006-10	150x100mm	7 μ m	7 μ m	30	30	30	6
842-008-10	200x130mm	8 μ m	8 μ m	34	34	30	7
842-010-10	250x165mm	9 μ m	9 μ m	35	35	35	7
842-012-10	300x200mm	10 μ m	10 μ m	40	40	40	8

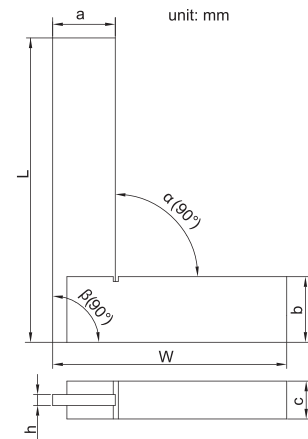
SERIES 843

90° FLAT EDGE SQUARE WITH WIDE BASE

- ◆ DIN875 grade 0
- ◆ Made of hardened stainless steel



843-004-10



unit: mm

Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	c	h
843-002-10	50x40mm	6μm	6μm	12	12	10	3
843-003-10	75x50mm	6μm	6μm	14	14	10	3
843-004-10	100x70mm	7μm	7μm	18	18	10	3
843-006-10	150x100mm	7μm	7μm	22	22	12	4
843-008-10	200x130mm	8μm	8μm	25	25	12	4

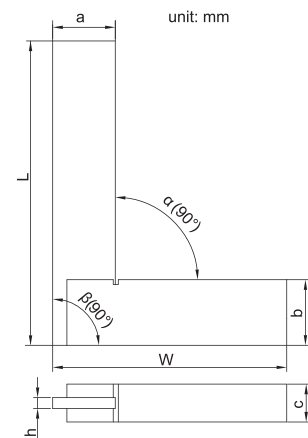
SERIES 845

MACHINIST SQUARE WITH WIDE BASE

- ◆ DIN875 grade 2
- ◆ Made of carbon steel



845-004-02



unit: mm

Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	c	h
845-002-02	50x40mm	24μm	25μm	16	12	9	3
845-003-02	75x50mm	26μm	28μm	16	16	9	3
845-004-02	100x70mm	28μm	30μm	19	19	12	3
845-006-02	150x100mm	33μm	35μm	25	25	16	3
845-008-02	200x130mm	37μm	40μm	30	32	16	4
845-010-02	250x165mm	42μm	45μm	30	32	19	4
845-012-02	300x200mm	47μm	50μm	32	32	19	4
845-016-02	400x250mm	56μm	60μm	38	38	22	5
845-020-02	500x300mm	65μm	70μm	45	50	25	6
845-024-02	600x350mm	75μm	80μm	50	50	30	6
845-030-02	750x400mm	90μm	95μm	55	55	50	6

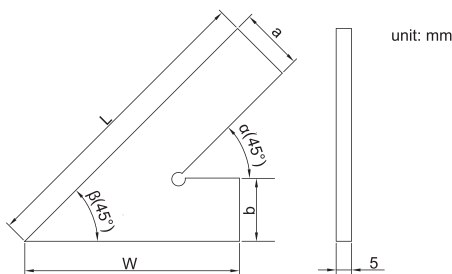
45° SQUARE

SERIES 846

- ◆ Made of hardened stainless steel



846-005-02



Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b
846-004-02	100x70mm	27 μ m	30 μ m	20	20
846-005-02	120x80mm	29 μ m	32 μ m	20	20
846-006-02	150x100mm	32 μ m	35 μ m	20	20
846-008-02	200x130mm	36 μ m	40 μ m	25	25

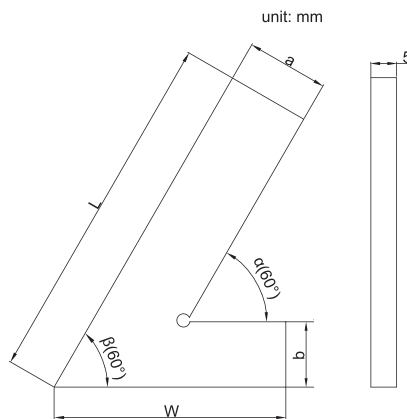
60° SQUARE

SERIES 847

- ◆ Made of hardened stainless steel



847-004-02

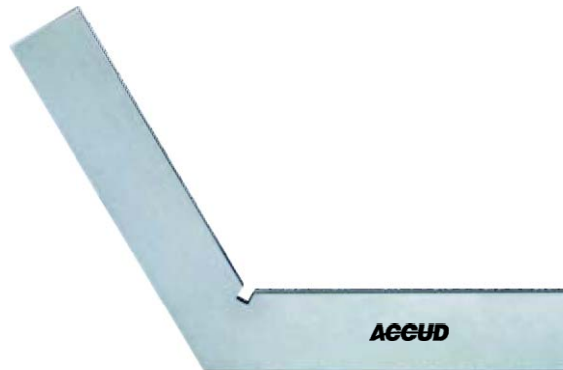


Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b
847-004-02	100x70mm	28 μ m	30 μ m	20	20
847-005-02	120x80mm	30 μ m	32 μ m	20	20
847-006-02	150x100mm	32 μ m	35 μ m	20	20
847-008-02	200x130mm	37 μ m	40 μ m	25	25

SERIES 848

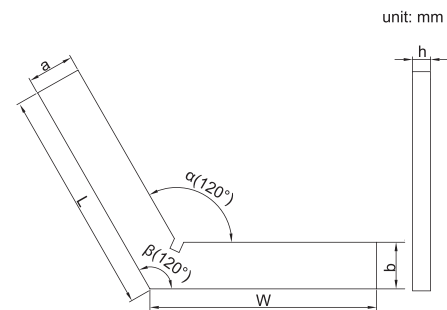
120° SQUARE

◆ Made of hardened stainless steel



848-004-02

Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	h
848-002-02	50x50mm	24 μ m	25 μ m	15	15	13
848-003-02	75x75mm	26 μ m	28 μ m	20	20	15
848-004-02	100x100mm	29 μ m	30 μ m	20	20	20
848-006-02	150x150mm	34 μ m	35 μ m	25	25	30
848-008-02	200x200mm	38 μ m	40 μ m	30	30	30



unit: mm

SERIES 849

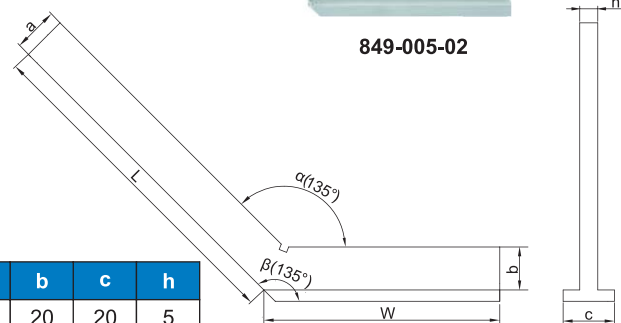
135° SQUARE WITH WIDE BASE

◆ Made of hardened stainless steel



849-005-02

Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	c	h
849-004-02	100x70mm	29 μ m	31 μ m	20	20	20	5
849-005-02	120x80mm	31 μ m	33 μ m	20	20	20	5
849-006-02	150x100mm	34 μ m	36 μ m	20	20	20	5
849-008-02	200x130mm	39 μ m	41 μ m	30	30	30	7
849-010-02	250x165mm	44 μ m	46 μ m	30	30	30	7
849-012-02	300x175mm	49 μ m	51 μ m	35	35	35	7



unit: mm