

Protractor Hard Chrome Finish



31863 ●10 cm compact size
 ●Pocket-sized portable



31861 ●Classic protractor



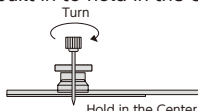
31862



62901 ●Center lock nut has a needle built-in to hold in the center



62928 ●Square protractor board guides outside edge



31864



31865 ●Groove on the protractor board allows the blade to be locked tightly



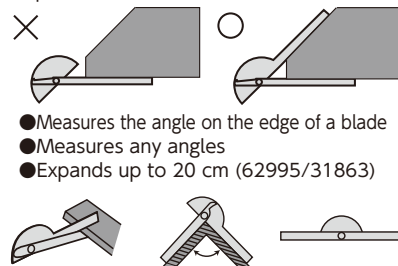
62952 ●Trigonometric function chart on the back

●Parts are listed from p.274

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
62995	Mini $\phi 40$ 10 cm	120×26×5	20	4 960910 629950	10	SP
31863	Mini $\phi 40$ 10 cm En CAL	120×26×5	20	4 960910 318632		
62480	No.19 $\phi 90$ 10 cm	200×52×16	65	4 960910 624801		
31861	No.19 $\phi 90$ 10 cm En CAL	200×52×16	65	4 960910 318618		
62490	No.19 Double-blade $\phi 90$ 10 cm	200×52×15	82	4 960910 624900	1	B
31862	No.19 Double-blade $\phi 90$ 10 cm En CAL	200×52×15	82	4 960910 318625		
62901	No.182 $\phi 90$ 10 cm	200×50×25	80	4 960910 629011		
62928	No.183 Square 10 cm	200×55×15	100	4 960910 629288		
62774	No.30 $\phi 120$	305×68×17	150	4 960910 627741	5	SP
31864	No.30 $\phi 120$ En CAL	305×68×17	150	4 960910 318649		
62868	No.101 $\phi 120$ 15 cm with Groove	305×68×17	150	4 960910 628687		
31865	No.101 $\phi 120$ 15 cm with Groove En CAL	305×68×17	150	4 960910 318656		
62898	No.300 $\phi 210$ 30 cm	450×115×25	500	4 960910 628984	1	B
62839	No.300 Double-blade $\phi 210$ 30 cm	500×115×25	660	4 960910 628397		
62855	No.600 $\phi 320$ 60 cm	825×175×24	1,350	4 960910 628557		
62944	No.600 Double-blade $\phi 320$ 60 cm	825×175×24	1,900	4 960910 629448		
62847	No.1000 $\phi 320$ 1 m	1,220×175×24	1,600	4 960910 628472		
62952	No.1000 Double-blade $\phi 320$ 1 m	1,220×175×24	2,400	4 960910 629523		

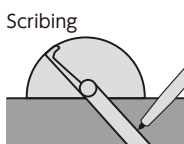
Features

- Etching + black chrome coating on graduations help to last long
- Bold, easy-to-read graduations
- Hard chrome finish (matte processed) prevents its surface with excellent durability and prevents glare on the scale for high readability
- No.300 - No.1000 have a trigonometric function chart on the back
- Double blade model
 - Firmly matches shapes that a regular protractor board can't match
- Measures the angle on the edge of a blade
- Measures any angles
- Expands up to 20 cm (62995/31863)

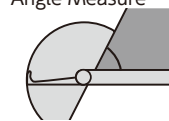


Use

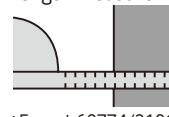
- For measuring angles, scribing, and measuring length
- For metalworking



Angle Measure



Length Measure



*Except 62774/31864

Specifications

Item Code		62995	31863	62480	31861	62490	31862
Angle Plate	Size	40 mm		90 mm			
	Thickness	1.0 mm		1.2 mm			
	Angle incr.	2°		1°			
Blade	1:Single 2:Double	2		1		2	
	Length	100 mm		153 mm			
	Graduation	10 cm					
	Width	10 mm		14 mm			
Material		Main Part: Stainless steel Fixing Pin: Stainless steel		Main Part: Stainless steel Screw: Brass			

Item Code	62901	62928	62774	31864
Angle Plate	Size	90 mm	55 × 94 mm	120 mm
	Thickness	1.2 mm	1.5 mm	
	Angle incr.	1°		
Blade	1:Single 2:Double	1		
	Length	153 mm	245 mm	
	Graduation	10 cm	—	
	Width	14 mm	16 mm	
Material	Main Part: Stainless steel Screw: Brass			

Item Code	62868	31865	62898	62839
Angle Plate	Size	120 mm	210 mm	
	Thickness	1.5 mm	2.0 mm	
	Angle incr.	1°	0.5°	
Blade	1:Single 2:Double	1	2	
	Length	245 mm	385 mm	
	Graduation	15 cm	30 cm	
	Width	16 mm	22 mm	
Material	Main Part: Stainless steel Screw: Brass		Main Part: Stainless steel Screw: Iron	

Item Code		62855	62944	62847	62952
Angle Plate	Size	320 mm			
	Thickness	2.5 mm			
	Angle Incr.	0.5°			
Blade	1:Single 2:Double	1	2	1	2
	Length	650 mm		1,050 mm	
	Graduation	60 cm		100 cm	
	Width	30 mm			
Material		Main Part: Stainless steel Screw: Iron			

