

## ANGLE PROTRACTORS

### Angle Protractor with Digital Display

Measuring ranges 1x 360°, 2x 180°, 4x 90°

Large decimal or sexagesimal display

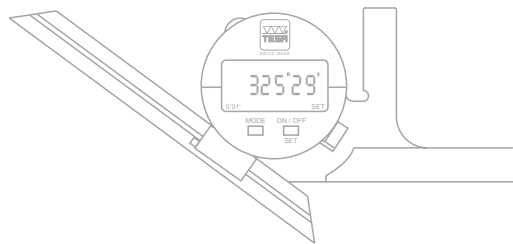
2 measuring directions

Fine setting with adjustment screw

Locking system

Scale L = 200 mm (300 or 500 mm available as options)

RS232 data output



**00630010** Angle protractor with digital display. Supplied with a scale of L = 200 mm

**OPTIONAL ACCESSORIES:**

**00660004** Scale 200 mm

**00660005** Scale 300 mm

**00660006** Scale 500 mm

**00660007** Supporting base with 1 flat measuring face and 1 prismatic measuring face

**00660008** Square for measuring sharp angles

**01961000** Lithium battery, 3V, CR 2032

**04761062** Opto-USB cable, duplex, bidirectional communication



Measuring ranges:  
1 x 360°, 2 x 180°,  
4 x 90°



LCD, 5 digits + sign



0,01° / 1 minute  
of arc



8,5 mm



Max. perm. error.: 4  
minutes of arc



Stainless steel body,  
hardened



Maximum rotation  
speed.: 1080°/s



Preset to 0° or 180°



RS232 opto-coupled



1x CR2032 3,0 V



5000 hours



+5°C to + 40°C



IP51 (CEI 529)



410 g



Wooden case (ISPM  
15 andt NIPM 15)



Identification  
number



Declaration of  
conformity





2 circular scales



Main scale: 5'.  
Double numbering in opposite directions.  
Auxiliary scale: 10°



Max. perm. error: 5' (without accessory)



Hardened stainless steel



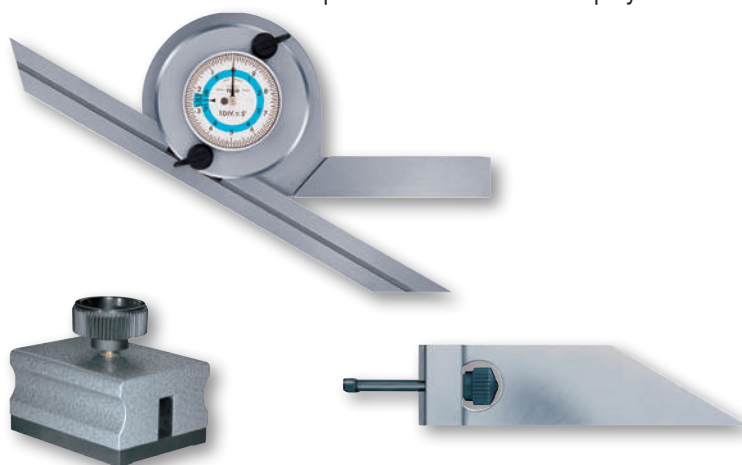
Plastic case



Declaration of conformity

### EAC Angle Protractor with Dial

Circular scale with needle pointer  
Easy reading on main and auxiliary scales  
Very low hysteresis  
Precision movement with compensation for mechanical play.



00610102

00610101

No	=	Icon: 4 x 90°	Icon: mm
00630001	EAC angle protractor with dial	4 x 90°	200
00630002	EAC angle protractor with dial	4 x 90°	300
<b>OPTIONAL ACCESSORIES:</b>			
00660002	Scale		200
00660003	Scale		300
00610102	Cast iron base with steel bottom surface, hardened		



5'



Max. perm. error: 5' (without accessory)



Stainless steel, hardened



Plastic case



Declaration of conformity

### ETALON Angle Protractor with Vernier Scale

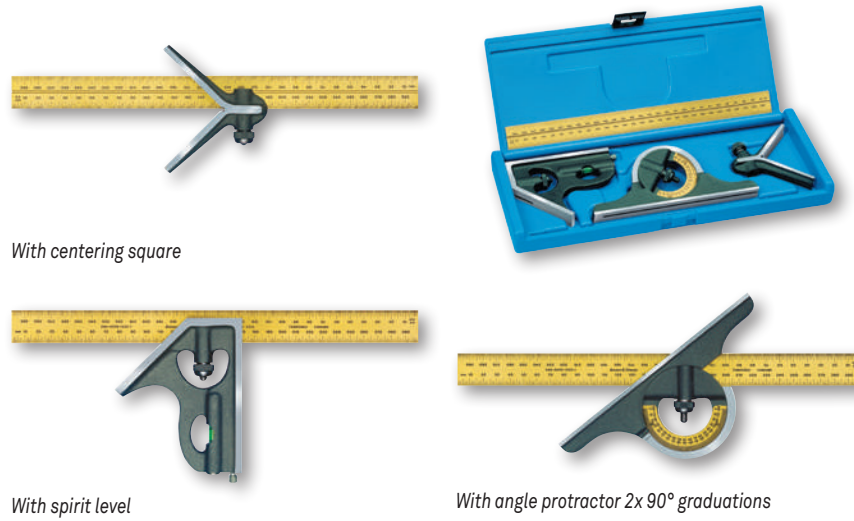


No	=	Icon: 4 x 90°	Icon: Auxiliary scale	Icon: mm
076115566	ETALON angle protractor with vernier 200 mm	4 x 90°	No	200
076115567	ETALON angle protractor with vernier 300 mm	4 x 90°	No	300
<b>OPTIONAL ACCESSORIES:</b>				
00660002	Scale			200
00660003	Scale			300
00610102	Cast iron base with steel bottom surface, hardened			



### Brown & Sharpe Angle Protractor - Multiple Combinations

This angle protractor combination set can be used as a scale, depth gauge, try square, centering tool, marker or even as a spirit level.

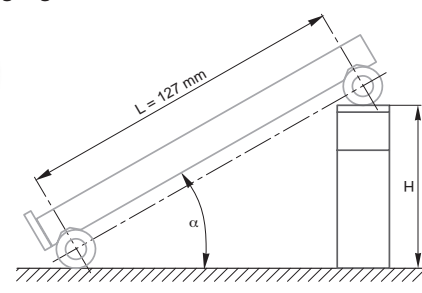
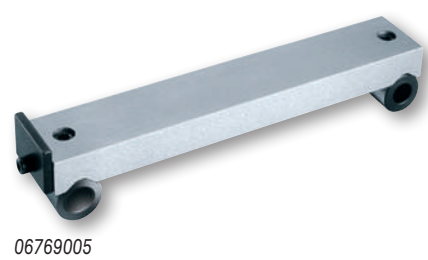


- Hardened steel. Measuring faces specially treated against scratches
- Pastic case

			Consisting of:
06719000	B&S angle protractor set with multiple combinations		<ul style="list-style-type: none"> <li>- 1 Ruler graduated in millimetres, length 300 mm</li> <li>- 1 Angle protractor with 2 x 90° graduations</li> <li>- 1 Centering square</li> <li>- 1 Square head with scribe</li> </ul>

### Brown & Sharpe Sine Bar

Suited for setting ranges from 0 to 60°  
Sine function for establishing the angle that needs to be set on the basis of the length dimensions obtained from parallel gauge blocks.



Example for the calculation of an angle  
 Given: H = height of combination gauge blocks in mm  
 L = length of B&S sine bar in mm  
 Formula:  $H = L \cdot \sin(\alpha)$   
 $\sin(\alpha) = H/L$   
 angle = arcsin (H/L)  
 Calculation for determining angle knowing H et L values:  
 angle = arcsin ( 89,803 / 127 ) = arcsin ( 0,70711 ) = 45°

- 5 µm
- Hardened alloy steel
- Removable front stop
- Cardboard box
- Declaration of conformity

06769005	B&S Sine bar	L (centre distance), mm 127 ± 0,004	mm 123 x 25