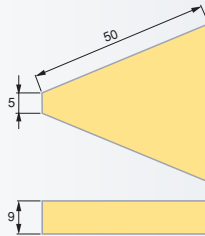


## TESA Angle Gauge Blocks

These gauge blocks are used to set and calibrate angles, tapers, clinometers, rotary scales, dividing heads, rotary tables etc.

### Angle Gauge Blocks with a 9 x 50 mm Measuring Face

Each set of 15, 16 or 27 angle gauges allows a number of up to 32400 combinations, ranging from 0° to 90° in steps of 10”.



<b>0651570102</b>	TESA angle gauge block A27, 27-piece set
<b>0651570103</b>	TESA angle gauge block A16, 16-piece set
<b>0651570104</b>	TESA angle gauge block A15, 15-piece set
<b>0651570105</b>	TESA angle gauge block A13, 13-piece set
<b>0651570106</b>	TESA angle gauge block A06, 6-piece set



Highly alloyed steel, stable and wear resistant.  
Hardness to  $\geq 800$  HV.



$(11,5 \pm 1,0) \times 10^{-6} K^{-1}$



$\pm 2''$



Grade 2:  
ISO 3650



Available in sets or individually



Wooden case



Identification number



UKAS calibration certificate

#### Each set of TESA angle gauge blocks includes

No.	=	Angle	A27	A16	A15	A13	A06
0651570145	Angle gauge block	10”	•	•	•		
0651570146	Angle gauge block	30”	•	•	•		
0651570147	Angle gauge block	1’	•		•		
0651570148	Angle gauge block	2’	•	•	•		
0651570149	Angle gauge block	3’	•	•	•		
0651570150	Angle gauge block	4’	•				
0651570151	Angle gauge block	5’	•	•			
0651570152	Angle gauge block	10’	•	•	•		
0651570153	Angle gauge block	20’	•	•			
0651570154	Angle gauge block	30’	•	•	•		
0651570155	Angle gauge block	40’	•				
0651570156	Angle gauge block	50’	•				
0651570157	Angle gauge block	1°	•	•	•	•	•
0651570158	Angle gauge block	2°	•		•	•	
0651570159	Angle gauge block	3°	•	•	•	•	•
0651570160	Angle gauge block	4°	•			•	
0651570161	Angle gauge block	5°	•	•		•	•
0651570162	Angle gauge block	10°	•		•	•	
0651570163	Angle gauge block	15°		•			•
0651570164	Angle gauge block	20°	•			•	
0651570165	Angle gauge block	30°	•	•	•	•	•
0651570166	Angle gauge block	40°	•			•	
0651570167	Angle gauge block	45°		•			•
0651570168	Angle gauge block	50°	•			•	
0651570169	Angle gauge block	60°	•		•	•	
0651570170	Angle gauge block	70°	•			•	
0651570171	Angle gauge block	80°	•			•	
0651570172	Jaws with 2 parallel measuring faces Section 9 x 20 mm, length 125 mm		•	•	•		
0651570173	Straight edge, L = 50 mm		•	•	•		



Highly alloyed steel, stable and wear resistant.  
Hardness to  $\geq 800$  HV.

$(11,5 \pm 1,0) \times 10^{-6} \text{ K}^{-1}$

$\pm 2''$

0,2  $\mu\text{m}$

Lateral measuring face:  
2  $\mu\text{m}$

Available in sets or individually

Wooden case

Identification number

UKAS calibration certificate

## Angle Gauge Blocks as per NPL MOY/SMI/18

Used for combinations from  $0^\circ$  to  $81^\circ$  in steps of  $3''$  (Set A) or  $6''$  (Set B).

For any combination from  $81^\circ$  to  $90^\circ$ , the use of an additional  $9^\circ$  angle gauge (No. 0651570140) is required. For angles over  $90^\circ$ , the precision square No. 0651570143 is used.



**No**

=

**0651570100** TESA angle gauge block A, 15-piece set

**0651570101** TESA angle gauge block B, 14-piece set

Each set of TESA angle gauges includes:

**No**

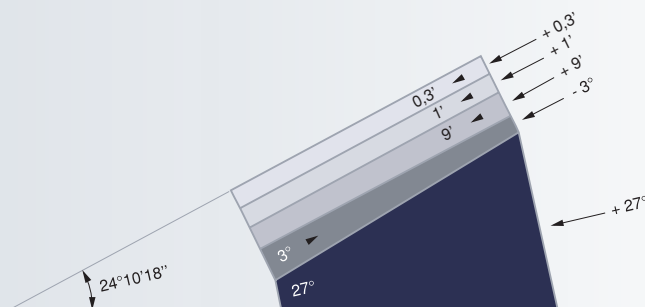
=



A

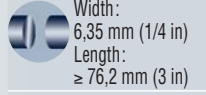
B

<b>0651570130</b>	Angle gauge block	0,05'	●	
<b>0651570131</b>	Angle gauge block	0,1'	●	●
<b>0651570132</b>	Angle gauge block	0,3'	●	●
<b>0651570133</b>	Angle gauge block	0,5'	●	●
<b>0651570134</b>	Angle gauge block	1'	●	●
<b>0651570135</b>	Angle gauge block	3'	●	●
<b>0651570136</b>	Angle gauge block	9'	●	●
<b>0651570137</b>	Angle gauge block	27'	●	●
<b>0651570138</b>	Angle gauge block	1°	●	●
<b>0651570139</b>	Angle gauge block	3°	●	●
<b>0651570140</b>	Angle gauge block	9°	●	●
<b>0651570141</b>	Angle gauge block	27°	●	●
<b>0651570142</b>	Angle gauge block	41°	●	●
<b>0651570143</b>	Angle gauge block	4 x 90°	●	●
<b>0651570144</b>	Straight edge		●	●



## Brown & Sharpe Angle Gauges

For setting and calibration purposes – Smallest step to 15' (1/4°).



06769002

1 Set = 12 precision squares

Set composition

15'	30'	1°	2°	3°	4°
5°	10°	15°	20°	25°	30°





Special steel, hardened

$(11,5 \pm 1,0) \times 10^{-6} \text{ K}^{-1}$

Max. perm. deviation from the nominal size: 20  $\mu\text{m}$  or 0.0008 in.  
Uniformity of size within a set of three balls having the same nominal size: 1  $\mu\text{m}$  or 0.00004 in

$\pm 0,5 \mu\text{m}$  or  $\pm 0.00002$  in

Full set or set including three balls of same nominal size

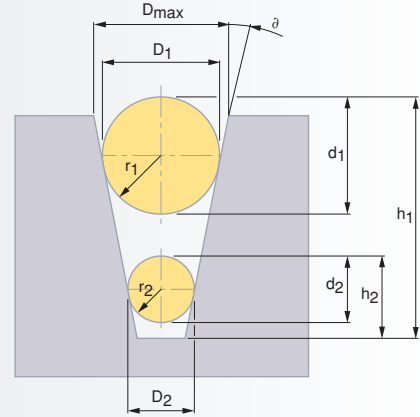
Wooden case

UKAS calibration certificate

## Steel Balls

Steel balls are used to measure internal tapers and the like.

### TESA Steel Balls



mm		mm	Step mm	Nbr of pieces/ Nominal size	Total pieces
<b>0651500950</b>	Steel ball set	1 ÷ 25	1	3	75
<b>0651500951</b>	Steel ball set	1,5 ÷ 12,5	1	3	36
in		in	Step in	Nbr of pieces/ Nominal size	Total Pieces
<b>0652500950</b>	Steel ball set	$1/16 \div 1/2$	$1/32$	3	45
<b>On request</b>	3-piece steel ball set				



Special steel, hardened

3  $\mu\text{m}$

Not available individually

Plastic case

## Brown & Sharpe Steel Balls



mm		mm	Step mm	Nbr of pieces/ Nominal size	Total pieces
<b>06769009</b>	Steel ball set	1 ÷ 25	1	2	50

