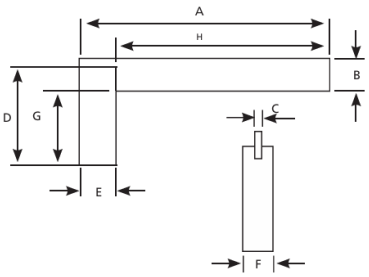
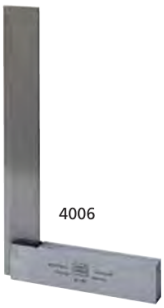
Traditional Engineers' Square

Features

- Standard: To BS939 / Grade B
- Precision ground blade and stock
- Blind rivetted construction
- Hardened and tempered blades
- Supplied boxed







Product shown in use

DIMENSIONS TABLE (MM)

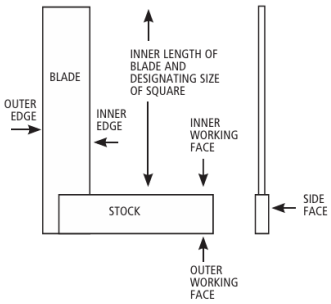
Square Size Faces	Blade A	B	Stock C	D	E	F	Inner Working G	H
3" (75mm)	104.8	25.4	1.42	68.5	25.4	12.7	49.3	79.4
4" (100mm)	130.2	25.4	1.42	76.2	25.4	12.7	57.0	104.8
6" (150mm)	181.0	25.4	1.42	101.6	25.4	12.7	82.4	155.6
9" (225mm)	273.1	38.1	3.15	139.7	38.1	19.05	107.9	234.95
12" (300mm)	355.6	44.4	3.15	177.8	44.4	22.2	139.7	311.2

WORKSHOP SQUARE: Grade B

Code No	Blade Length (mm)	Blade Length (inch)	Approx. Stock Length (mm) (inside face)
4003	75	3	49
4004	100	4	56
4006	150	6	82
4009	225	9	108
40012	300	12	139

400 SERIES ENGINEERS SQUARES TOLERANCES (MICRONS)

	Size of Square 3" 75mm	4" 100mm	6" 150mm	9" 225mm	12" 300mm
Straightness of Blade Edges	8	8	8	8	12
Parallelism of Blade Edges	8	8	8	12	12
Flatness of Working Faces of Stock (any deviation must be concave)	4	6	6	8	8
Parallelism of Working Faces of Stock	5	5	5	8	8
Parallelism of Side Faces of Stock	25	25	25	50	50
Squareness of Side Faces of Stock to Working Faces of Stock	57	57	75	114	134
Squareness of Edges of Blade to Side Faces of Stock	15	15	15	15	15
Squareness of Edges of Blade to Working Faces of Stock	16	16	16	16	24
Lateral Squareness of Blade	125	250	250	375	375



Traditional Inside & Outside Calipers

Inside & Outside Calipers, Firm Joint:

- Standard: BS3123
- Manufactured from polished tool steel
- A large headed nut & screw assembly provides a firm & rigid friction joint, with no play
- The sizes listed are the effective leg length which is measured from the joint assembly

Note: Firm joint caliper capacities are generally 1/3 greater than the effective leg length.

Outside Calipers, Spring Joint:

- Standard: BS3123
- Bow spring ensures uniform tension over working range
- Centrally mounted adjustment screw offers finer setting, than firm joint type

Inside Calipers, Spring Joint:

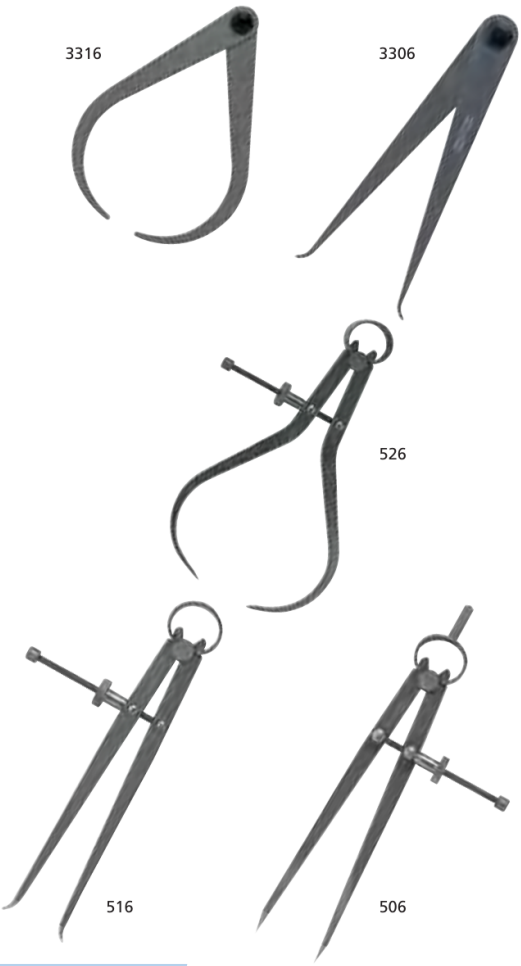
- Standard: BS3123
- Bow spring ensures uniform tension over working range
- Centrally mounted adjustment screw
- Manufactured from polished tool steel

Note: Firm joint caliper capacities are generally 1/3 greater than the effective leg length.

Spring Dividers:

- Standard: BS3123
- Manufactured from polished tool steel
- Points are hardened to over 550Hv
- Bow spring ensures uniform tension over working range
- Centrally mounted adjustment screw

Note: The nominal size is the distance between the centre of the roller and the working ends of the legs.



INSIDE CALIPERS FIRM JOINT

Code No	Size	Pack Quantity
3306	150mm / 6"	5
3308	200mm / 8"	1
33012	300mm / 12"	1

OUTSIDE CALIPERS FIRM JOINT

Code No	Size	Pack Quantity
3316	150mm / 6"	5
3318	200mm / 8"	1
33112	300mm / 12"	1
33118	450mm / 18"	1
33124	600mm / 24"	1

DIVIDERS & INSIDE / OUTSIDE CALIPERS SPRING JOINT

Size	Code No	Description	Code No	Description	Code No	Description	Pack Quantity
75mm / 3"	**503**	Divider	**513**	Inside	**523**	Outside	5
100mm / 4"	**504**	Divider	**514**	Inside	**524**	Outside	5
150mm / 6"	**506**	Divider	**516**	Inside	**526**	Outside	5
200mm / 8"	**508**	Divider	**518**	Inside	**528**	Outside	1
250mm / 10"	**5010**	Divider	**5110**	Inside	**5210**	Outside	1
300mm / 12"	**5012**	Divider	**5112**	Inside	**5212**	Outside	1

Traditional Screw Pitch Gauges
MW800 Series

Features

- Accurately milled steel blades
- Designed to check both internal and external thread forms
- Marked with nominal size on each blade
- All blades fixed in a steel sleeve
- Screw cutting gauge included

Note: SI (System International) metric blades should not be used to check ISO (International Standards Organisation) metric threads due to interference of the thread forms; but ISO metric blades can be used to check SI metric threads.





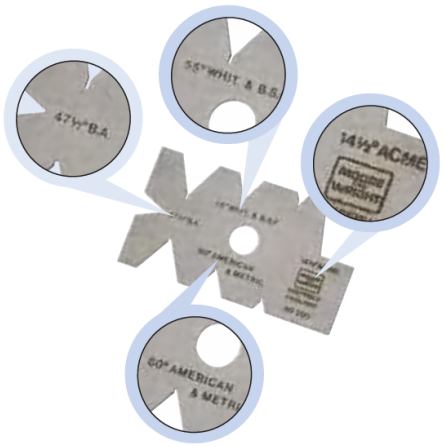
COMBINED METRIC & IMPERIAL: Screw Pitch Gauges

Code No	Description	No. of Blades	Threads per mm	Note
804	S.I. Metric & Whitworth	49	Metric: 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1.0, 1.25, 1.50, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0 Imperial: 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60	Screw Cutting Gauge included 60 degrees and 55 degrees

Traditional Screw Cutting Gauges

Features

- Suitable for most standard metric and imperial thread forms
- Accurately milled angles for precise evaluation of thread form
- Supplied in packs of 10



SCREW CUTTING GAUGE

Code No	Description	Pack Quantity
200	Thread form: SI, ISO, US Std. 60°. Thread form: Whitworth 55°. Thread form: British Association (BA). 47.5°. Thread form: ACME. 14.5°.	10

Traditional Radius Gauges

Features

- Accurately milled steel blades
- Designed to check both internal and external radii
- Marked with nominal size on each blade
- Mounted either on a ring or in a steel sleeve



206M



204M

METRIC: Radius Gauges, 0.75-13mm

Code No	Range (mm)	Graduation (mm)	No. of Blades	Description
204M	0.75-5	0.25	18	Ring
206M	0.75-5	0.25	18	Sleeve
204MA	5.5-13	0.5	16	Ring
206MA	5.5-13	0.5	16	Sleeve

IMPERIAL: Radius Gauges, 1/32-33/64"

Code No	Range (inch)	Graduation (inch)	No. of Blades	Description
204	1/32 - 17/64	1/64	16	Ring
206	1/32 - 17/64	1/64	16	Sleeve
204A	9/32 - 33/64	1/64	16	Ring
206A	9/32 - 33/64	1/64	16	Sleeve