

Calibrated Steel Balls are an essential aid to the precise measurement of Internal Tapers, Internal Annular Grooves, and many everyday inspection problems.

The sets are supplied in wooden cases. There are three balls of each dimension, and these have a tolerance of  $\pm 0.006\text{mm}$  ( $0.00025''$ ) on sphericity, and  $\pm 0.006\text{mm}$  ( $0.00025''$ ) on diameter for each ball. The tolerance on diameter between the three balls of each size is  $\pm 0.006\text{mm}$  ( $0.00025''$ ). Individual balls, or special sets of any diameter up to 3" (75mm) can be supplied. Calibration Certificates are also available.

**Set Code 65/1000**  
Consists of balls from 1-25mm dia. in increments of 1mm.

**Set Code 65/1010**  
Consists of balls from 1.5 – 12.5mm dia. in increments of 1mm.

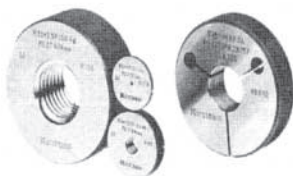
**Set Code 65/2000**  
Consists of balls from  $\frac{1}{16}''$  –  $\frac{1}{2}''$  dia. in increments of  $\frac{1}{32}''$  and from  $\frac{3}{16}''$  – 1" dia. in increments of  $\frac{1}{16}''$ .

Set of 3 balls. **Code 65/2500**  
State size when ordering.



### Screw Ring Gauges

Standard and special thread forms — 1mm to 375mm diameter.  $\frac{1}{16}''$  to 15" diameter.



### Plain Cylindrical Plug and Ring Gauges

Plain Plugs to standard or special tolerances range from 0.004" to 18" diameter, 0.1 to 450mm, in "wire" type, taperlock or trilock design as appropriate.

Plain Ring Gauges ranging from 0.020" to 14" diameter, 0.5" to 350mm approx.

Calibrated setting rings a speciality.

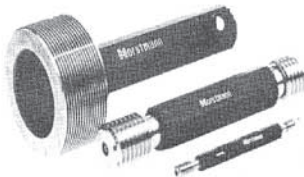


### Screw Plug Gauges

Standard and special thread forms — 1mm to 500mm diameter.

$\frac{1}{16}''$  to 20" diameter.

Parallel and conical threads.



### Precision Pin Sets

The pins in these sets are hardened throughout to 61-64 Rockwell "C", precision ground and have a superior microfinish.

Tolerances: Nominal size PLUS 0.002 to 0.005mm  
Length: 50mm  
Mean Surface finish: 0.0003mm C L.A.  
Roundness Geometry: Better than 0.001mm

#### METRIC SETS

Code	Set No.	Set Range (mm)	Steps (mm)	No. of Pins
<b>62/4001</b>	PPS 1	0.50 – 0.99	0.01	50
<b>62/4002</b>	PPS 2	1.00 – 1.49	0.01	50
<b>62/4003</b>	PPS 3	1.50 – 6.475	0.025	200
<b>62/4004</b>	PPS 4	6.50 – 11.475	0.025	200

#### IMPERIAL SETS

Tolerances: Nominal size PLUS 0.0001"  
Length: 2"  
Mean Surface finish: Ten micro inch (0.00001").  
Roundness Geometry: Better than 40 millionth of an inch (0.0004").

Code	Set No.	Set Range	Steps	No. of Pins
<b>62/4005</b>	PPS 21	0.010" – 0.059"	0.001"	50
<b>62/4006</b>	PPS 31	0.060" – 0.249"	0.001"	190
<b>62/4007</b>	PPS 41	0.250" – 0.500"	0.001"	251

