

A complete range of gauges and reamers for I.S. Machine mould production, inspection and repair



INSIST ON THE BEST GAUGES - INSIST ON PENICO

For over 30 years Penico has been dedicated to providing high quality gauging solutions for the glass container industry in the UK and around the world. Now the global market leader in the design and manufacture of the finest precision gauges, we export to customers in over 50 countries.

At Penico we have an in-depth understanding of the challenges faced by mould makers and repairers and take pride in the relationships we forge with our customers, working closely with them to create solutions to individual applications. We also provide maximum support to both mould repair shops and manufacturers.

Penico's highly trained and motivated staff are at the heart of our operations and underpin our success in the marketplace. We actively encourage and develop their skills and foster job satisfaction through continuous professional development.

With our strong commitment to sustained improvement and investment in state-of-the-art manufacturing facilities, we consistently respond to the demands of the market, enabling our clients to reduce costs through straightforward mould interchangeability, longer mould life and improved overall efficiency of Individual Section (1S) Machines.

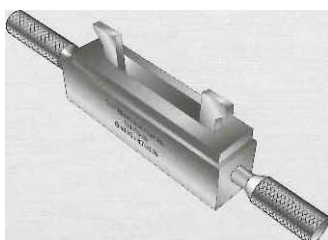
PENICO'S COMPREHENSIVE RANGE OF MOULD GAUGES INCLUDES:

DIGITAL NECKRING CALIBRATOR and BLANK/BLOWMOULD PROFILE FLUSH PIN GAUGES



Unique to Penico, these flagship gauges give highly accurate digital readout of dovetail width. Convenient to use and very robust, these gauges offer faster setup, improved manufacturing control and consistent dovetail sizing. Your machinists no longer have to estimate stock removal and can have total confidence in the gauge calibration status. **See page 6.**

BLANKMOULD and BLOWMOULD DOVETAIL PROFILE FLUSH PIN GAUGES



Used to inspect the shape and size of the dovetail cutout. They gauge only the two surfaces indicated by the bold contact points in the diagrams and have a fixed and moveable member which is held in proper engagement with the cutout by spring tension. The surface end of the gauge in which the moveable member slides is divided into two steps and the cutout is correct when the face of the moveable member is flush with either the step or between the two steps. **See page 7.**

BLANKMOULD and BLOWMOULD PLUG GAUGES



Blankmould gauge - used to inspect the bottom opening of the dovetail cutout in the blankmould. It consists of Go and No Go ends as indicated.

Blowmould gauge - used to inspect the bottom opening of the dovetail cutout. The diameter is correct when the Go end only will enter the bottom opening. **See page 8.**

BOTTOMPLATE and NECKRING PINCH DIAMETER GAUGES



Used to inspect the nip diameters below the neckring and bottomplate dovetails. The gauges have a Go and No Go step and the diameters of the neckring and bottomplate dovetail are correct when the Go side only passes through without being forced. **See page 9.**

NECKRING and BOTTOMPLATE DOVETAIL PROFILE GAUGES



Neckring gauges - used to inspect the shape and size of the neckring dovetail. They gauge only the two surfaces as indicated by the bold contact points and consist of Go and No Go sides. The dovetail is the correct size when it can pass through the Go side only, without being forced.

Bottomplate gauges - used to inspect the shape and size of the bottomplate dovetail. They gauge only the two surfaces as indicated by the bold contact points and consist of Go and No Go sides. **See pages 10 and 11.**

BLANKMOULD REAMERS



The range includes blank reamers and mould reamers for neckring and bottomplate fittings. These are hand operated tools used for minor adjustments to repaired moulds and eliminate the need for expensive machining costs. **See pages 12 and 13.**

FITTER GAUGES



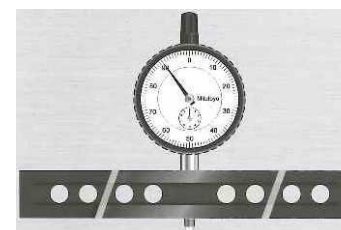
Used to inspect the blankmould cutout for the neckring fitting. Precision dimensions vary according to which standard is required and whether a Go and No Go facility is needed. **See page 14.**

BAFFLE AND BAFFLE RECESS GAUGES



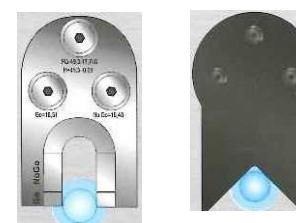
Used to check that funnels and baffles match correctly with blankmoulds. They are available in male and female types. **See page 15.**

HOLLOW MILL GAUGE



Used to measure the hollow mill on the mould joint face. **See page 16.**

PLUNGER DIAMETER AND STRAIGHTNESS INSPECTION GAUGES



Plunger diameter gauges - used to inspect plunger diameter. They can be supplied as standard gauges or as a jig, complete with convenient baseplate. **See page 17.**

Plunger straightness gauges - used to inspect plunger straightness. They are supplied as a jig, complete with baseplate and a dial gauge. **See page 18.**

• SPECIAL GAUGE MANUFACTURING SERVICE

Penico offers a special gauge service to suit specific customer applications.

• GAUGE CALIBRATION

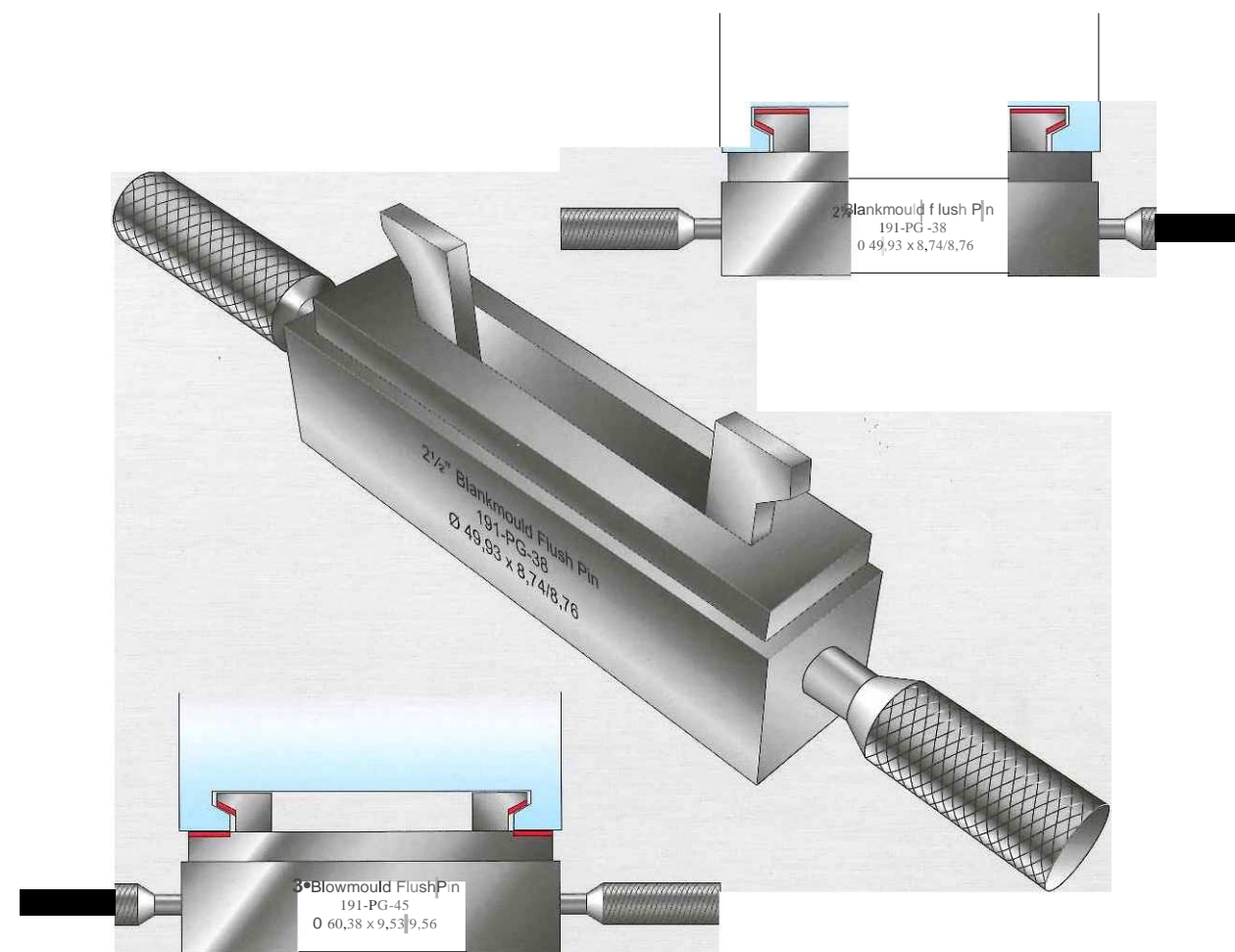
Gauge calibration to UKAS international standards is offered as a support to customers who wish to maintain the highest standards of gauging accuracy.

DIGITAL NECKRING CALIBRATOR and BLANK/BLOWMOULD PROFILE FLUSH PIN GAUGES



- Digital reading of the dovetail width
- Faster set up times
- Improved manufacturing control
- Consistent dovetail sizing
- Confidence in your gauge calibration status
- Robust design

BLANKMOULD and BLOWMOULD DOVETAIL PROFILE FLUSH PIN GAUGES



15 BLANKMOULD DOVETAIL PROFILE FLUSH PIN GAUGE Dovetail Height = 8.74/8.76

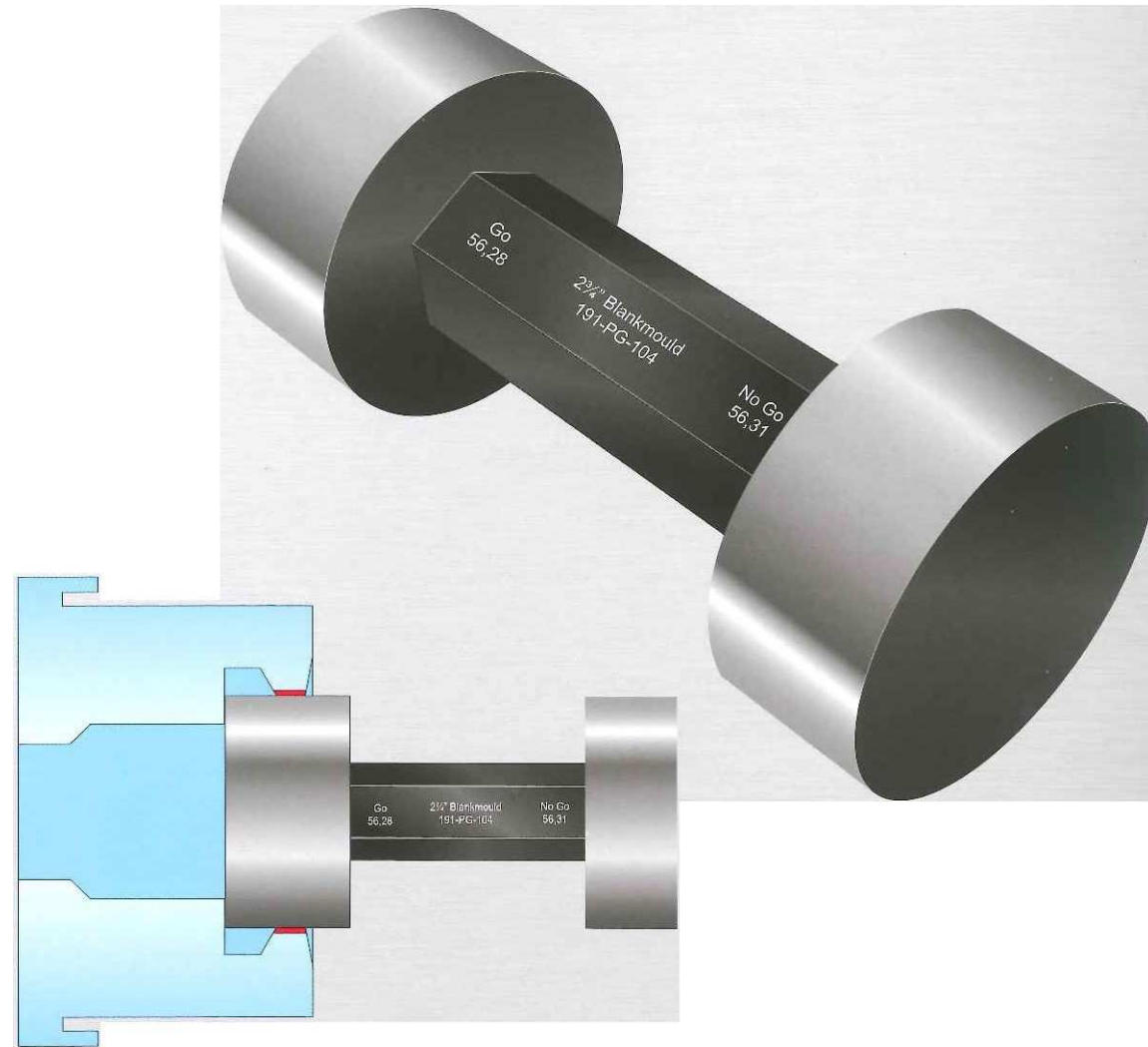
GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
191-PG -37	2 1/8	40.41/ 40.44
191-PG -38	2 1/2	49.93/ 49.96
191-PG -102	2 3/4	56.28 / 56.31
191-PG-143	3	62.63 / 62.66
191-PG -39	3 1/2	75.33 / 75.36
191-PG -95	4	88.03 / 88.06
191-PG -139	4 1/4	94.38/ 94.41
191-PG -40	4 1/2	100.73/ 100.76
191-PG-41	5	113.43/ 113.46
191-PG -172	5 1/4	119.78/ 119.81
191-PG-42	5 1/2	129.31/ 129.34
191-PG-43	6 1/4	145.18/ 145.21

15 BLOWMOULD DOVETAIL PROFILE FLUSH PIN GAUGE Dovetail Height = 9.53/9.56

GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
191-PG-44	2	34.98/35.02
191-PG-103	2 3/4	54.03/ 54.08
191-PG-45	3	60.38/60.43
191-PG-119	3 1/2	73.08/73.13
191-PG-46	4	85.78/85.83
191-PG-176	4 1/2	98.48/ 98.53
191-PG-47	5	111.18/111.23
191-PG-48	6	136.58/ 136.63
191-PG-86	7	161.98/ 162.03

• Please note - variations to the above sizes are available

BLANKMOULD and BLOWMOULD PLUG GAUGES



• Larger plug gauges incorporate recesses and lightening holes

BOTTOMPLATE and NECKRING PINCH DIAMETER GAUGES



IS BLANKMOULD PINCH DIAMETER GAUGE

GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
191-PG-18	21/s	40.41/40.44
191-PG-19	2½	49.93/49.96
191-PG-104	2¾	56.28/56.31
191 - PG-144	3	62.63/62.66
191-PG-20	3½	75.33/75.36
191-PG-96	4	88.03/88.06
191-PG-140	4¼	94.38/94.41
191-PG-21	4½	100.73/100.76
191-PG-22	5	113.43/113.46
191-PG-174	5¼	119.78/119.81
191-PG-23	5%	129.31/129.34
191-PG-24	6¼	145.18/145.21

IS BLOWMOULD PINCH DIAMETER GAUGE

GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
191-PG-25	2	34.98/35.02
191-PG-105	2¾	54.03/54.08
191-PG-26	3	60.38/60.43
191-PG-118	3½	73.08/73.13
191-PG-27	4	85.78/85.83
191-PG-179	4½	98.48/98.53
191-PG-28	5	111.18/111.23
191-PG-29	6	136.58/136.63
191-PG-88	7	161.98/162.03

IS NECKRING PINCH DIAMETER GAUGE

GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
191-PG-11	21/s	40.47/40.49
191-PG-12	2½	49.99/50.01
191-PG-98	2¾	56.34/56.36
191-PG-145	3	62.69/62.71
191-PG-13	3½	75.39/75.41
191-PG-93	4	88.09/88.11
191-PG-137	4¼	94.44/94.46
191-PG-14	4½	100.79/100.81
191-PG-15	5	113.49/113.52
191-PG-173	5¼	119.84/119.87
191-PG-16	5%	129.36/129.39
191-PG-17	6¼	145.24/145.27

IS BOTTOMPLATE PINCH DIAMETER GAUGE

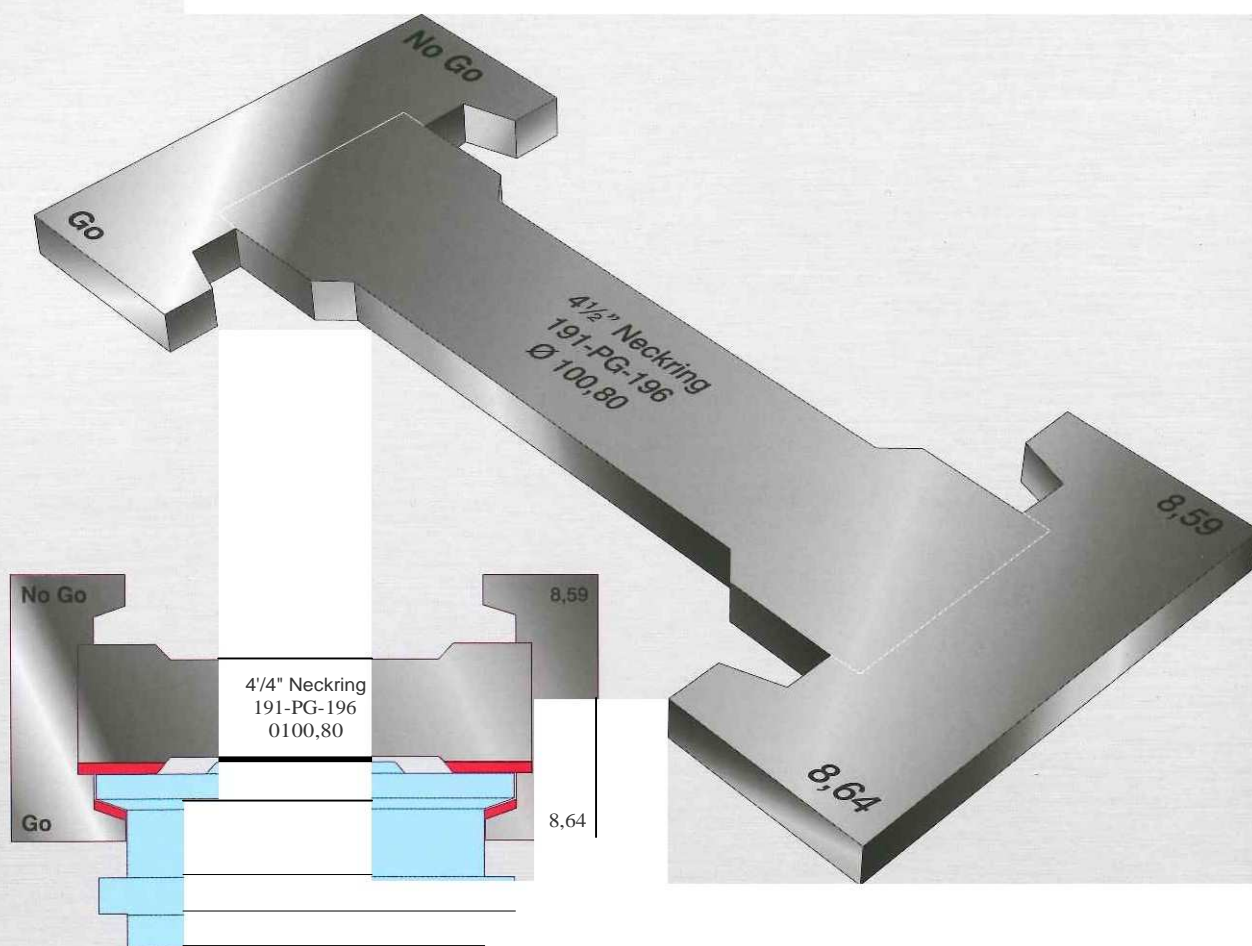
GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
191-PG-1	2	34.92/34.95
191-PG-100	2¾	53.97/54.00
191-PG-2	3	60.32/60.35
191-PG-116	3½	73.02/73.05
191-PG-3	4	85.72/85.75
191-PG-178	4½	98.42/98.45
191-PG-4	5	111.12/111.15
191-PG-5	6	136.52/136.55
191-PG-92	7	161.92/161.95

• Please note - variations to the above sizes are available

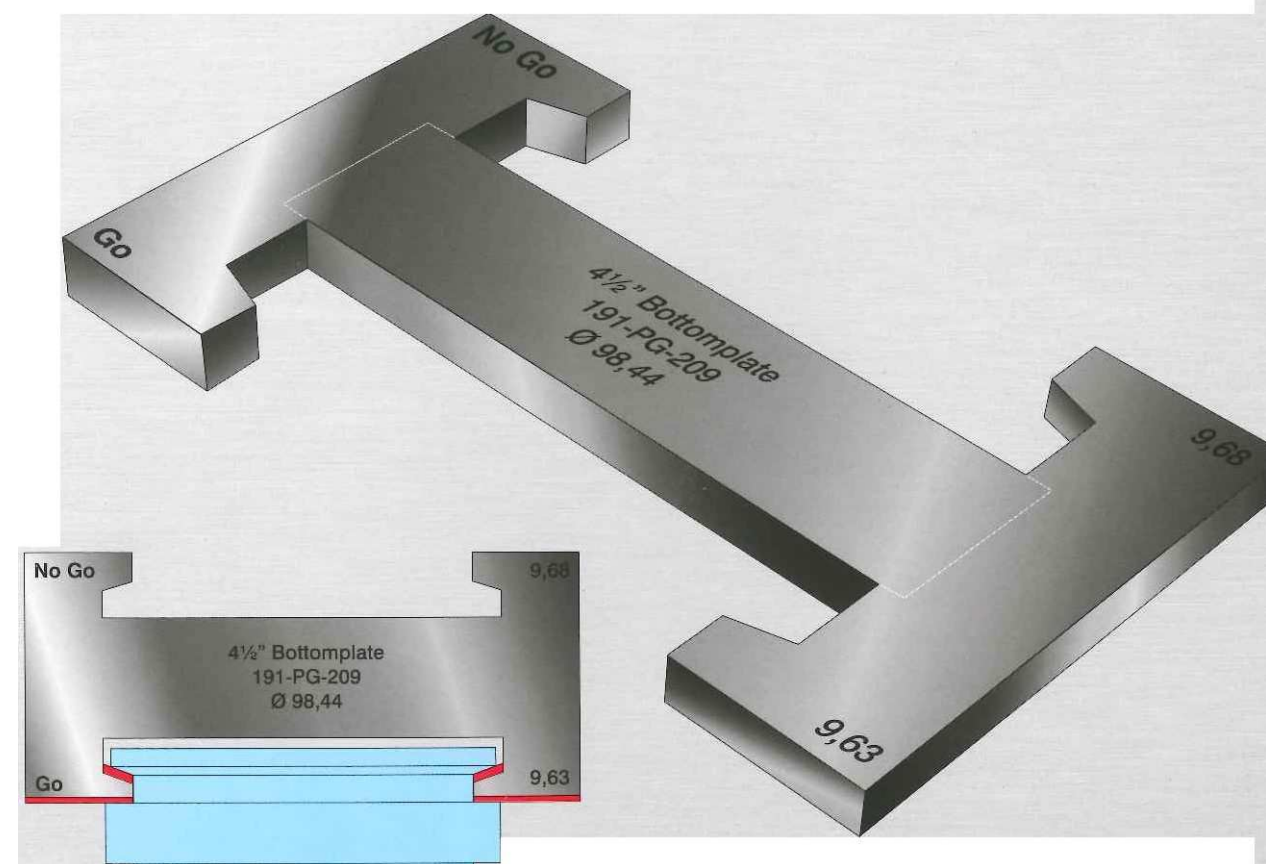
• Please note - variations to the above sizes are available



NECKRING DOVETAIL PROFILE GAUGES



BOTTOMPLATE DOVETAIL PROFILE GAUGES



15 NECKRING DOVETAIL PROFILE GAUGE

Dovetail Height = 8.59/8.64

GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
191-PG-189	2 1/8	40.47/40.49
191-PG-190	2 1/2	49.99/ 50.01
191-PG-191	2 3/4	56.34/56.36
191-PG-192	3	62.69/62.71
191-PG-193	3 1/2	75.39/75.41
191-PG-194	4	88.09/ 88.11
191-PG-195	4 1/4	94.44/94.46
191-PG-196	4 1/2	100.79/100.81
191-PG-197	5	113.49/113.52
191-PG-198	5 1/4	119.84/ 119.87
191-PG-199	5 1/2	129.36/129.39
191-PG-200	6 1/4	145.24/145.27

15 BOTTOMPLATE DOVETAIL PROFILE GAUGE

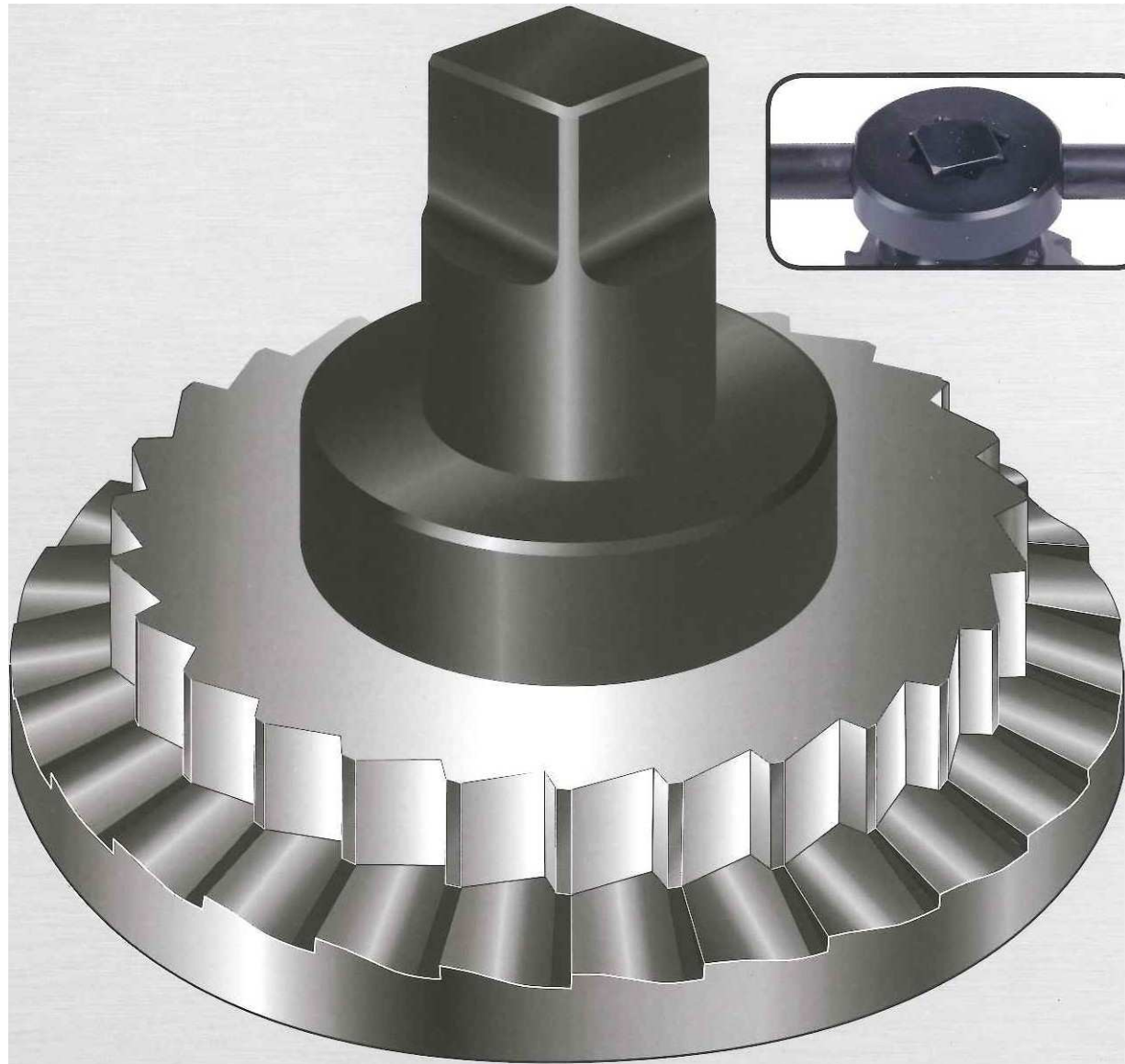
Dovetail Height = 9.63/ 9.68

GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
191-PG-204	2	34.92/34.95
191-PG-228	2 1/2	47.62/47.65
191-PG-205	2 3/4	53.97/ 54.00
191-PG-206	3	60.32/ 60.35
191-PG-207	3 1/2	73.02/ 73.05
191-PG-208	4	85.72/85.75
191-PG-209	4 1/2	98.42/ 98.45
191-PG-210	5	111.12/111.15
191-PG-211	6	136.52/ 136.55
191-PG-212	7	161.92/ 161.95

• Please note - variations to the above sizes are available

• Please note - variations to the above sizes are available

BLANKMOULD REAMER FOR NECKRING FITTING



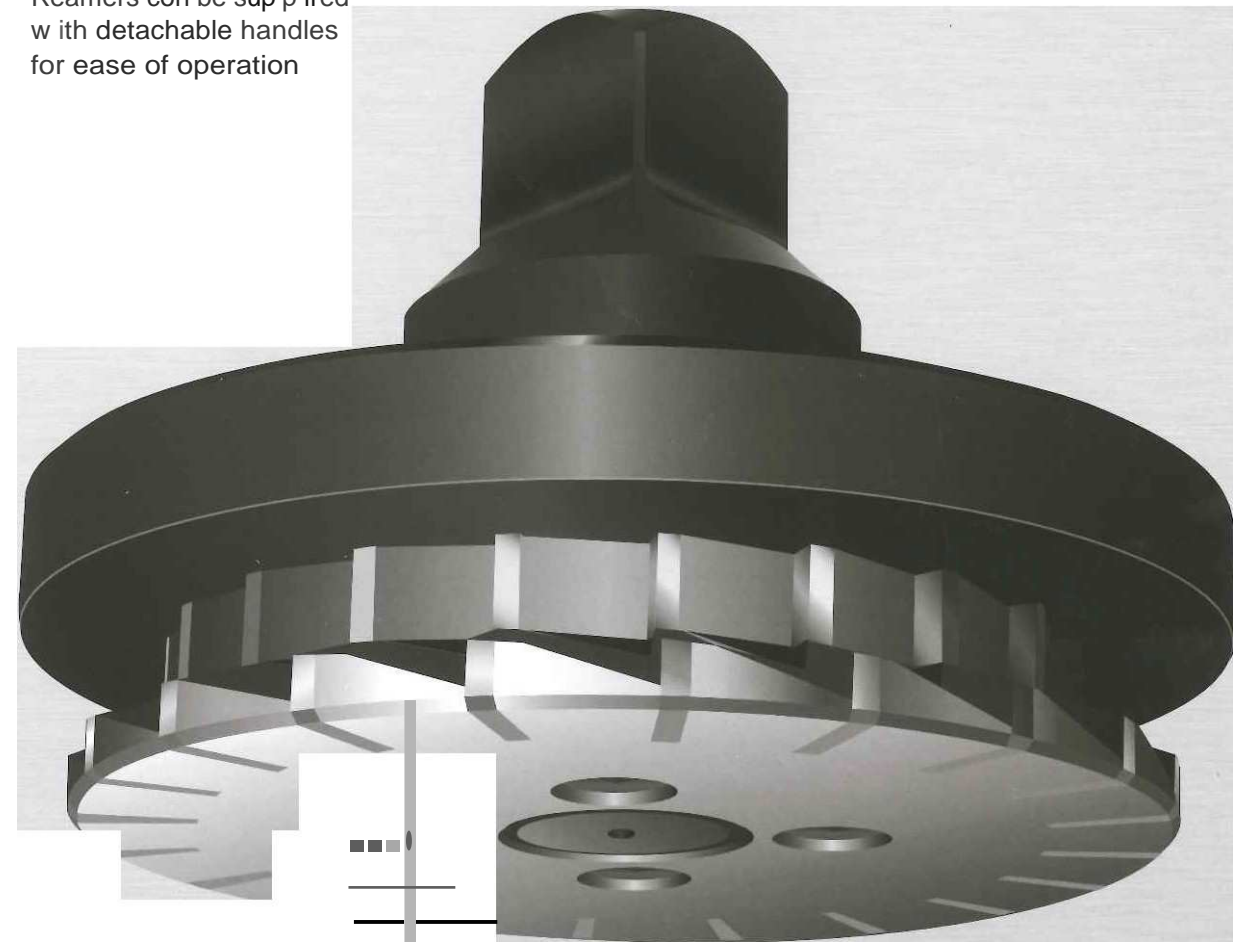
BLANKMOULD DOVETAIL REAMER
Dovetail Height = 8.74/8.76

GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
BR-PG-1	2 1/a	40.41/ 40.44
BR-PG-2	2 1/2	49.93/ 49.96
BR-PG-3	2 3/4	56.28/56.31
BR-PG-4	3	62.63/62.66
BR-PG-5	3 1/2	75.33/75.36
BR-PG-6	4	88.03/88.06
BR-PG-7	4 1/4	94.38/94.41
BR-PG -8	4 1/2	100.73/ 100.76
BR-PG-9	5	113.43/113.46
BR-PG-1 O	5 1/4	119.78/119.81
BR-PG- 11	5 5/a	129.31/129.34
BR-PG-12	6 1/4	145.18/145.21

• Please note - variations to the above sizes are available

BLOWMOULD REAMER FOR BOTTOMPLATE FITTING

Reamers can be supplied with detachable handles for ease of operation



BLOWMOULD DOVETAIL REAMER
Dovetail Height = 9.53/9.56

GAUGE NUMBER	SIZE (ins)	PINCH DIAMETER (mm)
MR-PG-1	2	34.98/35.02
MR-PG-2	2 3/4	54.03 / 54.08
MR-PG-3	3	60.38 / 60.43
MR-PG-4	3 1/2	73.08/ 73.13
MR-PG-5	4	85.78 / 85.83
MR-PG-6	4 1/2	98.48 / 98.53
MR-PG-7	5	111.18/ 111.23
MR-PG-8	6	136.58/ 136.63
MR-PG-9	7	161.98/ 162.03

• Please note - variations to the above sizes are available

FITTER GAUGES

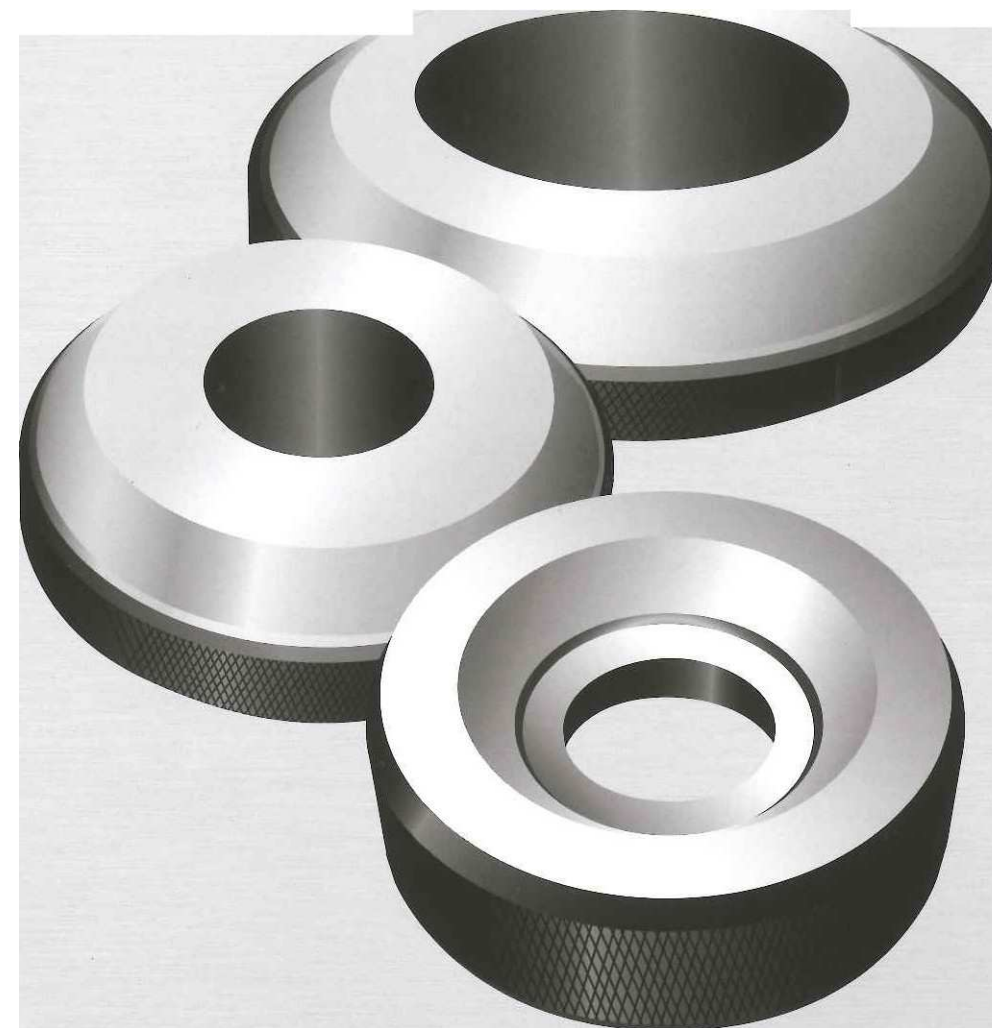


FITTER GAUGES
Go=S.74 NoGo=S.76

GAUGE NUMBER	GAUGE NUMBER	SIZE (ins)
FG-PG-1-G (Go)	FG-PG-1-NG (NoGo)	21/a
FG -PG -2 -G (Go)	FG-PG-2-NG (NoGo)	2½
FG-PG-3-G (Go)	FG-PG-3-NG (NoGo)	2¾
FG-PG-11-G (Go)	FG-PG-11-NG (NoGo)	3
FG-PG-4-G (Go)	FG-PG-4-NG (NoGo)	3½
FG-PG-5-G (Go)	FG -PG -5-N G (N oGo)	4
FG-PG-12-G (Go)	FG-PG- 12-NG (N oGo)	4¼
FG-PG-7-G (Go)	FG-PG-7-NG (NoGo)	5
FG-PG-8-G (Go)	FG-PG-8-NG (NoGo))	5¼
FG-PG-9-G (Go)	FG-PG-9-NG (NoGo)	5%
FG-PG- 10-G (Go)	FG-PG-10-NG (NoGo)	6¼

• Please note - variations to the above sizes are available

BAFFLE AND BAFFLE RECESS GAUGES



BAFFLE GAUGES

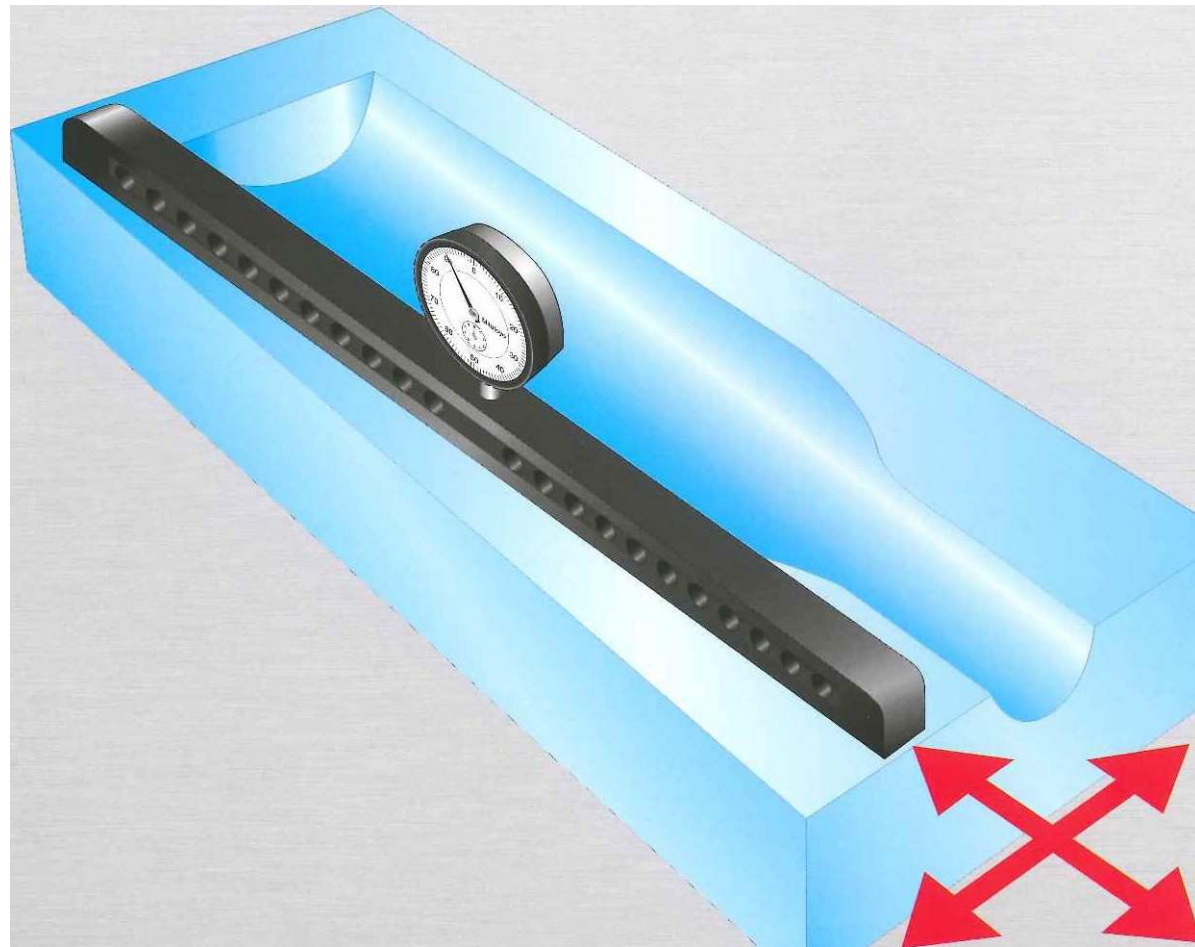
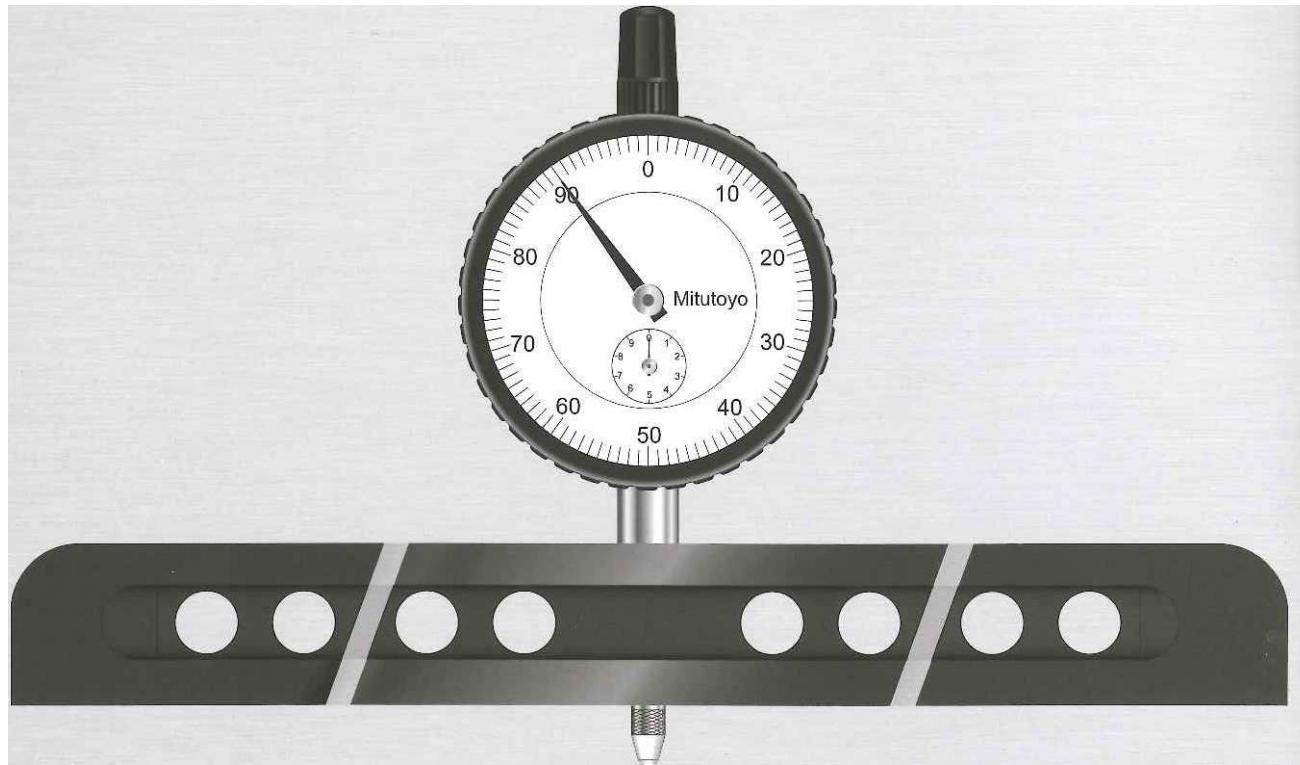
GAUGE NUMBER	SIZE (mm)
BG-PG-1	46.00 / 46.05
BG-PG-2	53.95/ 54.00
BG-PG-3	58. 70/ 58.75
BG-PG-4	65.05/ 65.10
BG-PG-5	77.75/ 77.80
BG-PG-6	85.70/85.75
BG-PG-7	90.4 5/90.50
BG-PG-8	101.57/ 101.62
BG-PG-9	120.62 / 120.67

• Please note - variations to the above sizes are available

BAFFLE RECESS GAUGES

GAUGE NUMBER	SIZE (mm)
BRG-PG-1	46 .13/ 46.18
BRG-PG-2	54.08/ 54.13
BRG-PG-3	58.83/ 58.88
BRG-PG-4	65.18 / 65.23
BRG -PG -5	77.88/ 77.93
BRG -PG - 6	85.83 / 8 5.88
BRG-PG - 7	90.58 / 90.63
BRG-PG-8	101.70/ 101.75
BRG-PG-9	120. 75/ 120.80

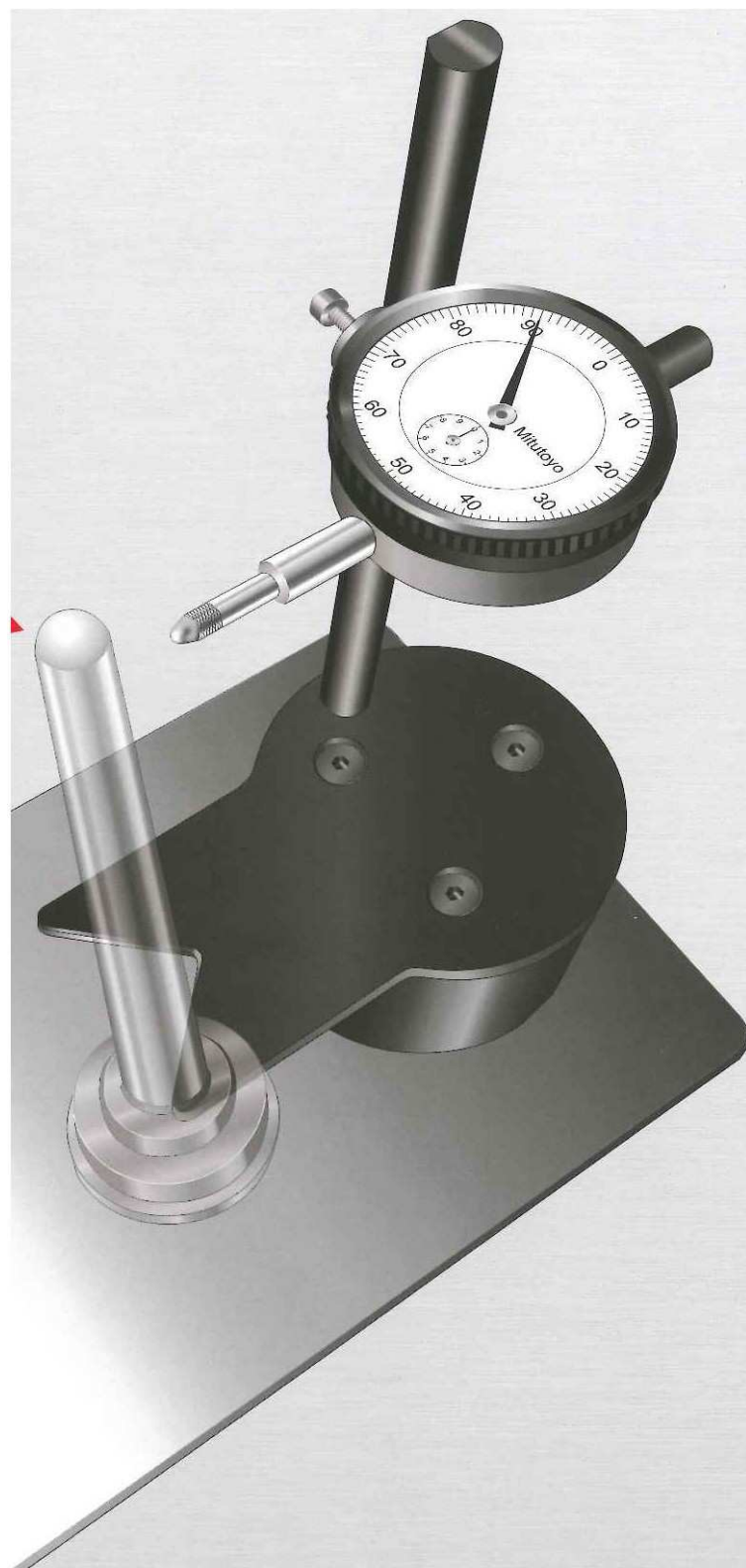
HOLLOW MILL GAUGE



PLUNGER DIAMETER INSPECTION GAUGE



PLUNGER STRAIGHTNESS GAUGE



EEDS BRADFORD AIRPORT

LEEDS

HOW TO FIND US
 Penico is easily reached via the UK motorway network and Leeds Bradford Airport is only 12 miles away.

Approaching by road from Bradford on the A650, take the exit signed Eldwick, Gilstead and Bingley. Once on Main Street look out for the traffic lights at Millgate and the Bingley Fire Station on your right. Penico is 200 yds further on (opposite All Saints Church). Make a right turn in front of the Shama Bingley restaurant. Penico is ahead down a slope.

GLA.MO.RO. srl
 Via Di Francia 76R- 16149 Genova ITALIA
 Tel. +39 010 374 21 61 - Fax +39 010 374 01 89
info@glamoro.it
 Partita IVA IT01617720998

You can also visit us on YouTube and Vimeo!

