plunger indicators and stands

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Baty International has been in business since 1932. Originally, a manufacturer of high precision dial indicators and other associated instruments such as cylinder bore gauges.

Baty soon diversified into non-contact measurement with Optical Profile Projectors and the Baty 'Shadograph' series has since become an industry standard in profile projectors. These products are still manufactured in Sussex in accordance with ISO 9001:2000.

For decades Baty has employed a team of Field Based Service Engineers. Today, our service department is the largest ISO 9001:2000 accredited Projector Service Organisation in the UK offering on-site Service, Training, Retrofits, and Repair for all makes of Profile Projector and Vision Systems.

In keeping with its gauging roots, Baty acquired John Bull and British Indicators, extending its gauging range to include calipers and flexible fixturing.

The range was then completed in the eighties when our first camera based Video Inspectors were developed. Video Edge Detection (VED) was soon added giving rise to increased accuracy, repeatability and measuring speed.

Now all our vision systems offer the best of both worlds with the combination of non-contact (VED) and contact measurement using Renishaw's extensive touch probe range.

Today, Baty is an ISO 9001:2000 accredited company that offers a range of Metrology Instruments from Hand Tools to Vision Systems, offering measuring solutions for almost every measurement application in modern manufacturing and now, we've put them together into one catalogue for your convenience.

So, whether you need a digital caliper or a full CNC multi-sensing Vision system...

...it's here.

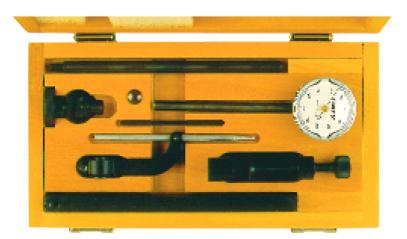
We look forward to talking to you.

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Website: www.baty.co.uk







Model	Range	Reading	Graduation
FTSM-1 Metric Test Set	2 mm	0.01 mm	0-100
FTSI-1 Imperial Test Set	0.1 "	0.001 "	0-100

INDICATOR TEST SETS

Back Plunger Type

These are versatile instruments with countless uses in workshops and inspection departments; for example, concentricity checks, marking-out table and surface plate work, alignment of machine tools, testing, parallelism, etc.

The set comprises:

- 35mm diameter, back plunger dial indicator with holding rod
- Lever attachment
- Universal clamp
- G-clamp
- Tool post holder
- Domed anvil
- All supplied in wooden case

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Model	Range	Reading	Graduation
FTSU-M Metric Test Set	10 mm	0.01 mm	0-100
FTSU-I Imperial Test Set	0.5"	0.001 "	0-100

Other options of indicator available on request

Plunger Type

The set comprises:

- 57mm diameter plunger dial indicator
- Lever attachment
- Universal clamp
- G-clamp
- Tool post holder
- All supplied in wooden case
- Spigot back

BENCH COMPARATOR STANDS

These comparator stands provide for a wide variety of applications in both the workshop and the standards room. Compatible with all Baty mechanical and digital indicators.

GS-3

- 0.002mm flatness
- Extreme stability
- 250mm height
- Other table sizes available



Model	Measuring Height mm	Reach	Column Ø	Table Size
GS-3	180	100	35	200 x 150

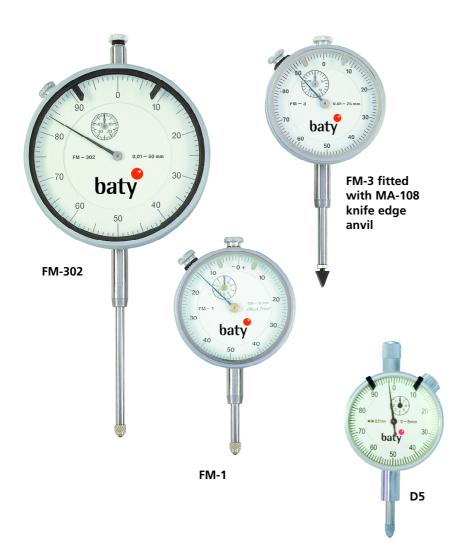


Model	Column Ø	Arm	Base
2407	16mm x 250mm	16mm x 230mm	250 x 60 x 55mm

2407

- Chrome column
- Fine adjustment
- Cast iron base with ground faces
- ø8mm stem mounting

<u> PLUNGER DIAL INDICATORS – FM SERIES</u>



Group 1 Indicators 42 mm Nominal Diameter

Model	Reading	Range	Range per Rev.	Graduation	
D5	0.01 mm	8 mm	1.0 mm	0-100	
Centre lug or flat back					

Group 2 Indicators 57 mm Nominal Diameter

			Range	
Model	Reading	Range	per Rev.	Graduation
FM-1	0.01 mm	10 mm	1.0 mm	0-50-0
FM-2	0.01 mm	10 mm	1.0 mm	0-100
FM-3	0.01 mm	25 mm	1.0 mm	0-100
FM-4	0.002 mm	5 mm	0.2 mm	0-20/0-10-0
FM-8	0.002 mm	12 mm	0.2 mm	0-10-0/0-20
FM-5	0.001 mm	1 mm	0.2 mm	0-200/0-100-0
FM-9	0.001 mm	12 mm	0.2 mm	0-200
FM-6	0.1 mm	10 mm	10.0 mm	0-10
FM-7	0.1 mm	25 mm	10.0 mm	0-10
FM-CSR	0.01 mm	0.8 mm	0.8 mm	40-0-40

Group 3 Indicators 76mm Nominal Diameter					
Range Model Reading Range per Rev. Graduation					
FM-302	0.01 mm	50 mm	1.0 mm	0-100	

The Baty range of Plunger Dial Indicators includes a model for all applications. Building on decades of experience we offer standard indicators in most popular sizes. All units are supplied with 8mm stems, M2.5 threads and offset lug backs as standard.*

Calibration certificate supplied with all Group 2 indicators reading 0.01mm or finer.

Group 2 Features

- Solid brass case
- 57mm diameter bezel
- Tolerance pointers
- Precision movement
- Coarse and fine dials
- Range of contact tips and back plates available (see page 15)
- 3mm diameter carbide ball anvil

FM-CSR

A single revolution dial indicator is included in the range to provide reliable reading and remove the risk of operator error. This indicator is especially useful when fitted to comparative gauging fixtures such as the Baty Checkmaster.

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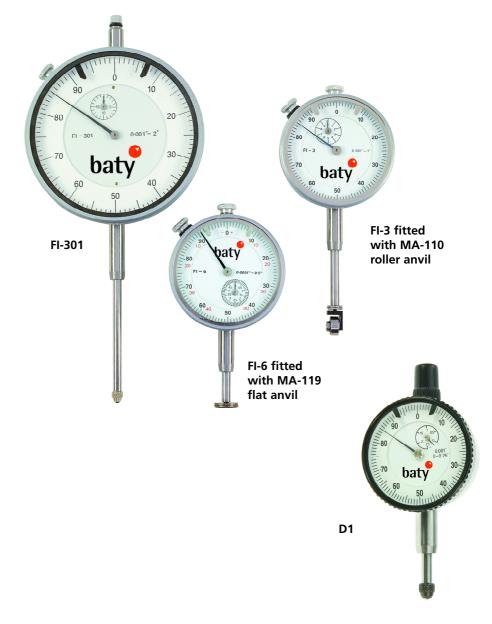
PLUNGER DIAL INDICATORS

The Baty range of Plunger Dial Indicators includes a model for all applications. Building on decades of experience we offer standard indicators in most popular sizes. All units are supplied with 8mm stems, M2.5 threads and offset lug backs as standard.*

Non-standard configurations are also available on request.

Group 3 Features

- Solid brass case
- Large 76mm diameter bezel
- Tolerance pointers
- Precision movement
- Range of contact tips and back plates available (see page 15)



Group 1 Indicators 42mm Nominal Diameter

Model	Reading	Range	Range per Rev.	Graduation
D1	0.001 "	0.25"	0.1"	0-100
		Centre lug or	flat back	

	Group 2 Indicators 2 ¹ /4" Nominal Diameter				
Model	Reading	Range	Range per Rev.	Graduation	
FI-1	0.001 "	0.5 "	0.1"	0-50-0	
FI-2	0.001 "	0.5 "	0.1"	0-100	
FI-3	0.001 "	1"	0.1"	0-100	
FI-4	0.0005 "	0.5 "	0.05 "	0-50 / 0-25-0	
FI-5	0.0001 "	0.2 "	0.01"	0-100 / 0-50-0	
FI-6	0.0001 "	0.5 "	0.01"	0-100 / 0-50-0	

Group 3 Indicators 3" Nominal Diameter						
Range Model Reading Range per Rev. Graduation						
FI-301 0.001" 2" 0.1" 0-100						

PLUNGER DIAL INDICATOR – WS SERIES



Model	Range	Resolution	Diameter
WS-01	0-1mm	0.001mm	58mm / flat
WS-02	0-1mm	0.001mm	58mm / lug
WS-03	0-3mm	0.01mm	42mm / lug
WS-04	0-5mm	0.01mm	42mm / lug
WS-05	0-10mm	0.01mm	58mm / flat
WS-06	0-10mm	0.01mm	58mm / lug
WS-07	0-10mm	0.01mm	54mm / waterproof
WS-08	0-10mm	0.1mm	54mm / lug
WS-09	0-30mm	0.01mm	58mm / lug
WS-10	0-50mm	0.01mm	58mm / lug

Features

Standard: DIN 878

- Satin-chromed body
- With Tungsten carbide measuring tip
- With double dial indicator for measuring mm stroke
- Shockproof
- Micron versions are jewelled
- Adjustable scale with stop screw
- Some models offer tolerance indicators, see picture
- Packed in foam box

DIGITAL INDICATOR

• Inch / metric

0-12.7mm (0-0.5") measuring range 0.001mm (0.00005") resolution

• Zero / on / off

Zero setting at any position / manual power on / off

• Data hold

TIR, min and max hold functions

• TOL

Set tolerance for pass / fail indication

• ABS

Switch between absolute and incremental mode

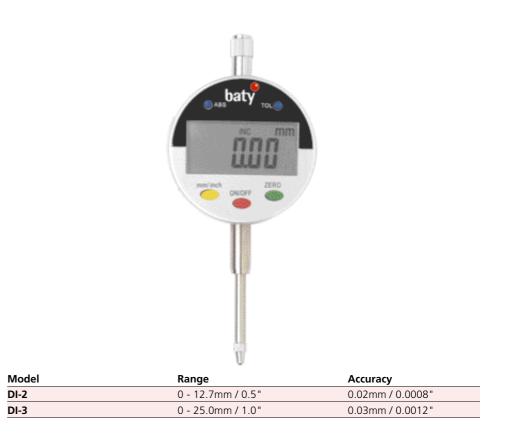
- Universal 8mm stem mount
- Supplied with 3mm diameter steel ball contact
- Rotating bezel
- Dual analogue and digital display



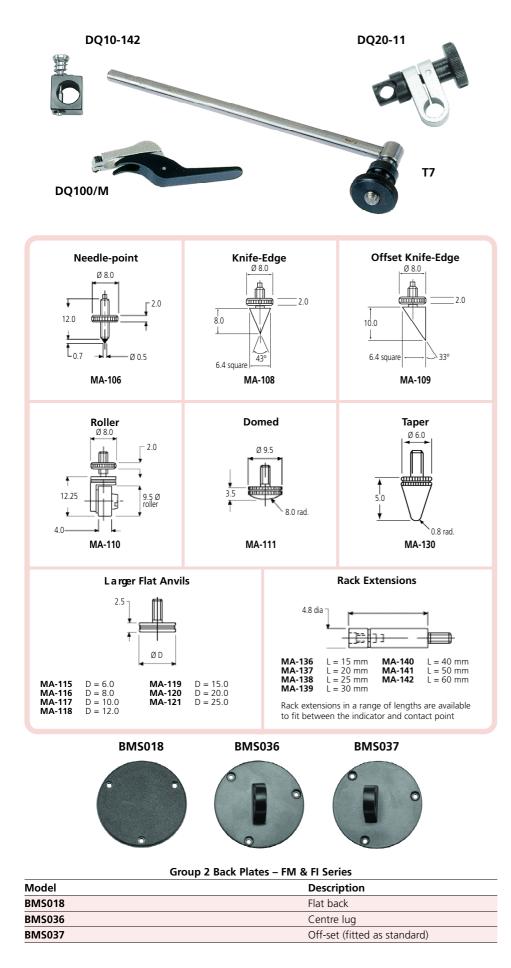
Model	Range	Accuracy
DI-1	0 - 12.7mm / 0.5"	0.008mm / 0.0003 "

DIGITAL INDICATOR

- Direct inch / metric conversion
- 58mm dial face
- Lugback and 8mm stem mountings
- Resolution 0.01m / 0.0005"
- Absolute / Incremental reading
- Floating Zero



PLUNGER DIAL INDICATORS ACCESSORIES



The applications of a plunger dial indicator can be extended and facilitated by a wide range of options and accessories. Changing anvils allows access to measurements that might be difficult to achieve with the standard anvils supplied.

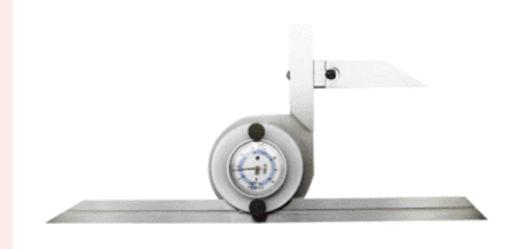
Model	Description	Size
BMS038	Carbide ball anvil	3mm
DQ10-142	Spindle brake attachment	Fits to the indicator stem end. Retains hand & spindle at max. reading position. Spindle released by pressing button
DQ20-11	Universal clamp	Ø ¼" & ¼6" holes
DQ20-11a	Universal clamp	Ø ¼" & %" holes
DQ20-11b	Universal clamp	Ø ¹ /4" & ¹ /4" holes
DQ20-50	Universal clamp	Ø ½" & ½" holes
DQ100/M	Lifting lever	12mm lift to fit 8mm stem
DQ122/M	Lifting lever	25mm lift to fit 8mm stem
DQ30-14/B	Lever attachment	45mm reach, to fit 8mm stem
MA-102	Radiused anvil	6mm
MA-106	Needle anvil	
MA-108	Knife edge anvil	
MA-109	Off-set knife edge	anvil
MA-110	Roller anvil	
MA-111	Radiused anvil	Ø 8mm radius x 9.5mm
MA-112	Anvil	Ø 12mm radius x 9.5mm
MA-115	Flat anvil	Ø 6mm
MA-116	Flat anvil	Ø 8mm
MA-117	Flat anvil	Ø 10mm
MA-118	Flat anvil	Ø 12mm
MA-119	Flat anvil	Ø 15mm
MA-120	Flat anvil	Ø 20mm
MA-121	Flat anvil	Ø 25mm
MA-130	Long taper anvil	5mm
MA-132	Long taper anvil	20mm
MA-133	Long taper anvil	25mm
MA-136	Rack extension	15mm long
MA-137	Rack extension	20mm long
MA-138	Rack extension	25mm long
MA-139	Rack extension	30mm long
MA-140	Rack extension	40mm long
MA-141	Rack extension	50mm long
MA-142	Rack extension	60mm long
T-5	Holding rod	Ø ¹ ⁄2" x 19" long
T-7	Holding rod	Ø ¼" x 134mm long

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DIAL ANGLE PROTRACTOR

Features

- Features high quality indicator
- Made of high quality hardened and ground stainless steel
- High precision satin chromed scale
- Minimum reading 5 minutes
- Magnifying glass for easy reading
- With fine adjustment and height gauge attachment
- 300mm / 12" rule and 150mm / 6" rule
- Packed as set in plastic box



Model	Range
AP-SET	360°

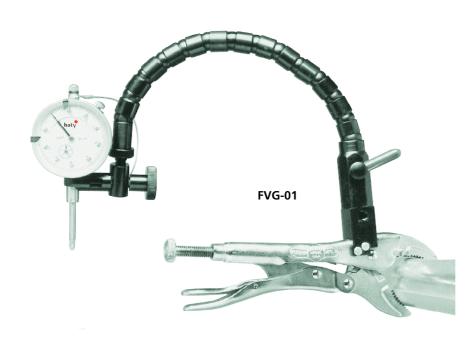
DIGITAL ANGLE PROTRACTOR

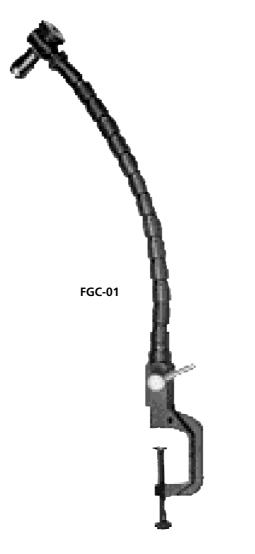
- 360° measuring range (4 x 90°)
- Manufactured from stainless steel
- Displays in degree / minute / second and decimal
- Resolution 30"
- Accuracy +/- 5'
- Fine adjustment
- Supplied with 300mm blades
- Supplied with acute angle attachment
- Battery CR2032



Model	Range
DAP-SET	Digital protractor 0-360°

ADJUSTABLE GAUGE ARMS





Features

These flexible gauge arms feature multiple swivel joints connected by a cable running through their centre for the length of the arm. Cable tension is released to allow the arm to be positioned exactly where required and then re-applied via a locking lever to form a solid gauge mounting arm in the desired shape.

FVG-01

325mm length flexible gauge arm attached to vice grips. Fitted with universal stem clamp accepts 3mm-13mm dia.

FGC-01

As FVG-01 but mounted to G-Clamp. Clamp capacity: 35mm x 19mm throat.

MAGNETIC INDICATOR STAND

MB 15

Heavy duty stand with 12mm diameter vertical column. 230mm height x 160mm reach with lug back clamp, 4mm and 8mm stem mounting. Switchable heavy duty magnetic base.

Features

- Basic type
- With powerful on/off magnetic base
- Magnetic force 80Kg / 175 LBS
- Universal model which can be used for indicators with or without 'lug' on back plate
- Accepts dial test indicators, digital indicators and normal indicators
- Extra rigid



Model	Description
MB-15	Adjustable gauge stand with ON/OFF magnetic base

MAGNETIC INDICATOR STAND

MB15-FA

Heavy duty stand with 12mm dia. vertical column. 230mm height x 160mm reach with lug back clamp, 4mm and 8mm stem mounting. Switchable heavy duty magnetic base.

- Features fine adjustment
- With powerful on / off magnetic base
- Magnetic force 80Kg / 175 LBS
- Universal model which can be used for indicators with or without 'lug' on back plate
- Accepts dial test indicators, digital indicators and normal indicators
- Extra rigid



Model	Description
MB-15FA	Adjustable gauge stand with ON/OFF magnetic base and fine adjustment

MAGNETIC INDICATOR STAND



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Model	Description
MB15-AB	Articulating arm magnetic base

Features

- Versatile magnetic base that can be adjusted in almost unlimited ways
- Fine adjustment
- 30kg clamp force •
- V-slotted base
- Universal model which can be used for indicators with or without 'lug' on back plate
- Accepts dial test indicators, digital indicators and normal indicators

IC INDICATOR STAND RAH



- Features a unique hydraulic central lock for all arms and swivel positions
- Super solid model
- With fine adjustment •
- With powerful on/off magnetic base
- Magnetic force 80Kg / 175 LBS •
- Universal model which can be used for indicators with or without 'lug' on back plate
- Accepts dial test indicators, digital indicators and normal indicators
- Dovetail groove for clamping a dial • test indicator
- Super rigid

	\Box
Model	Description
HGS-1	Hydraulic lock adjustable gauge stand with ON/OFF magnetic base

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FLEXIBLE MAGNETIC BASE

FMB-01

400mm length with switchable mag. base and base mounted fine adjust. Fitted with universal stem clamp accepts 3mm-13mm diameter

Features

- Corrosion resistant chrome plated flex arm
- Magnetic force 40kg / 85 lbs
- Holds rigidly in almost any position
- V-base for mounting on rounded surfaces



Ν	/lodel	Description
F	MB-01	Flexible arm gauge stand with ON/OFF magnetic base

MINI MAGNETIC BASE

945

Budget stand for lever indicators only. 135mm vertical height to dovetail mounting with 80mm extension rod providing 6mm stem clamp. Permanent magnetic base with fine adjustment.

- 2 universal ball sockets
- Microfine adjustment screw
- Dovetail mounting
- Chuck adapter
- Indicator sold separately (see section 1)



Model	Description
945-LI	Mini magnetic base supplied without indicator

FMB-Set

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MB15-FASET

Model	Description
FMB-SET	Snake stand with DI-3
MB15-FASET	Articulating magnetic base with DI-3 digital indicator



Model	Description	Items in Set
CSS-300	180°	4
* Metric and inch scale rule		

MAGNETIC BASE SETS

Supplied with our DI-3 digital indicator.

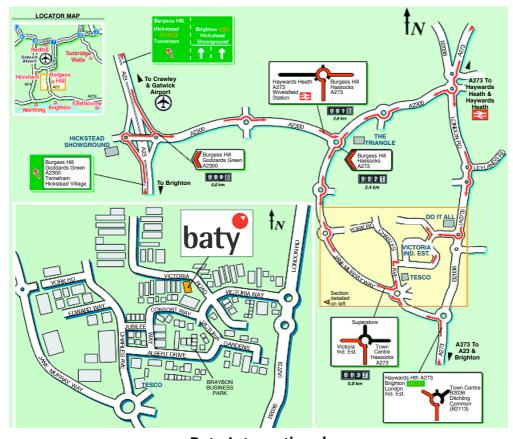
Features

- Direct inch / metric conversion
- 58mm dial face ٠
- Lugback and 8mm stem mountings •
- Resolution 0.01m / 0.0005" •
- Absolute / incremental reading •
- Floating Zero •

COMBINATION SE

- Three measuring heads are attached to the stainless steel ruler, allowing versatile measurements on various types of work pieces
- Square head, protractor head and centrehead
- For various measuring and marking applications
- Hardened and ground slide ways
- Stainless steel rule with engraved • graduations

How to find us...



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