



baty

dial test
indicators



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.

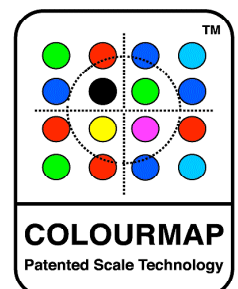
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LEVER TYPE DIAL TEST INDICATORS – METRIC

The Baty HL series of lever-type dial test indicators are top quality, Swiss-made precision instruments. Low inertia jewelled movements and rugged construction make them suitable for universal applications in the workshop and inspection departments.

Special Features

- High sensitivity, repeatability and accuracy
- Meet or exceed BS, DIN, Federal and other national standards
- Anti-magnetic
- Automatic reverse action stylus – hand always rotates clockwise
- Adjustable bezel and hand for zeroing
- Rugged, satin chrome finished body
- Three dovetail mountings, top, back and front
- Fully jewelled and geared movement
- Precision ball bearing mounted, interchangeable carbide point swivels through 240°

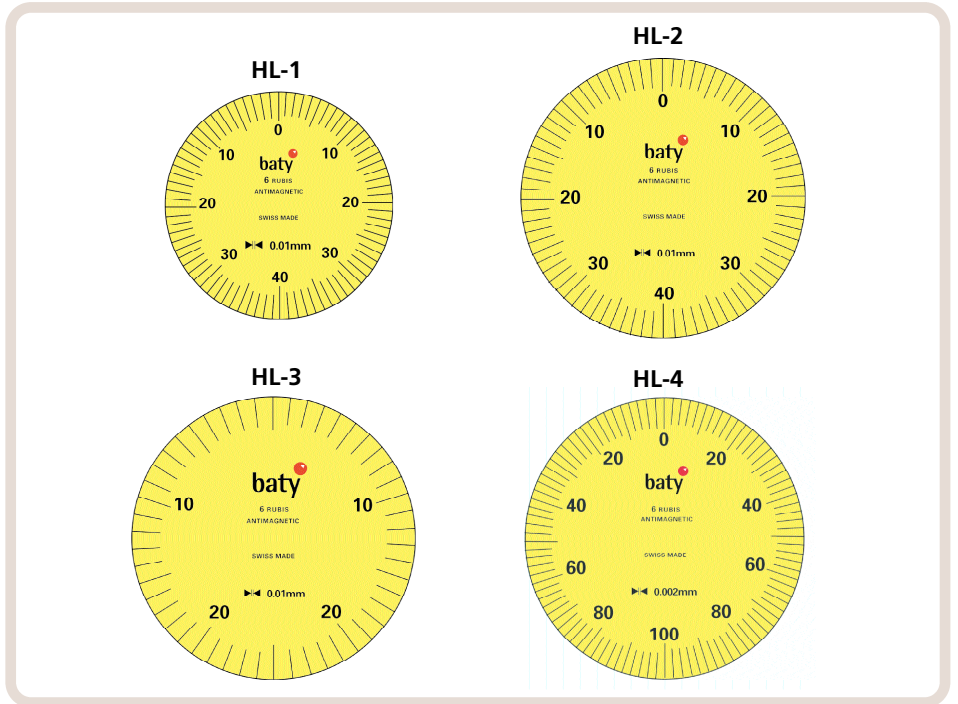
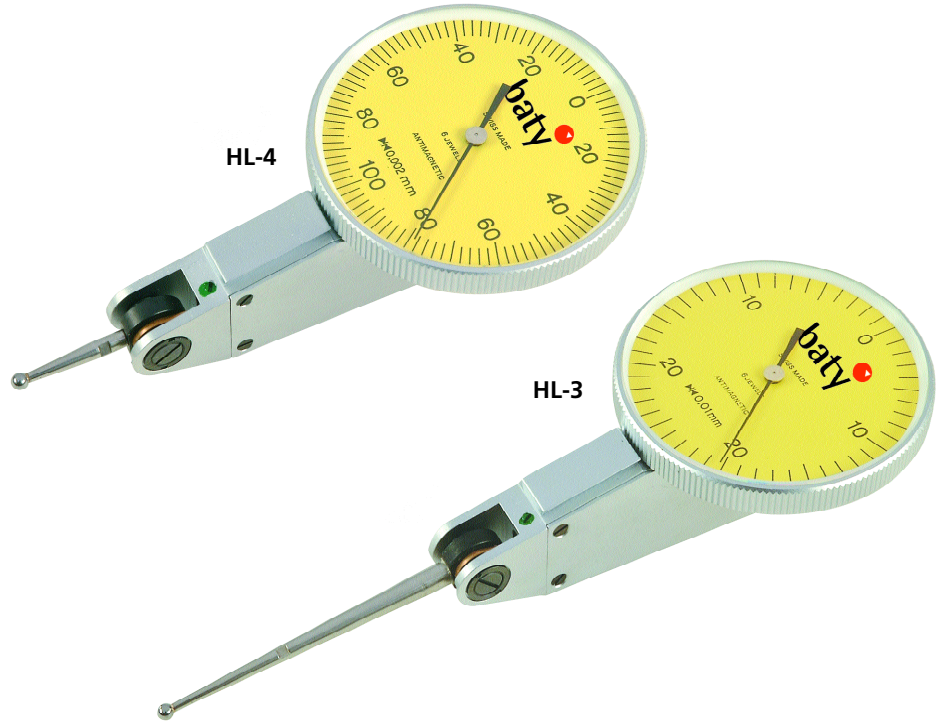
Baty HL indicators are supplied with:

- 2mm diameter contact point – fitted
- 1mm and 3mm diameter interchangeable contact points
- Contact point key
- Dovetail stems 911 and 914
- Tough plastic case

Note: Models HL3 and HL7 are not supplied with additional contact points



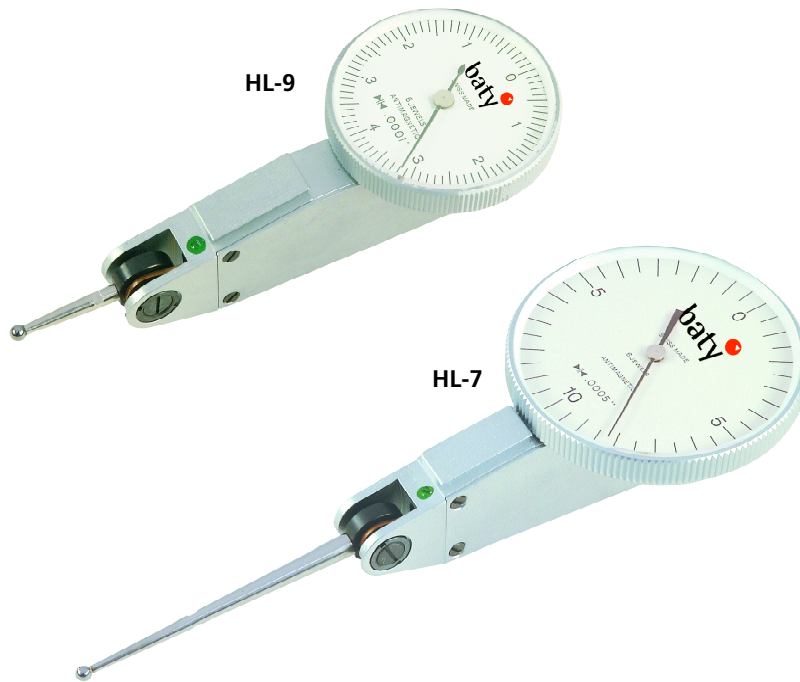
Baty HL indicators are supplied packaged as above



Metric Reading Models

Model	Reading	Measuring Range	Indicator Diameter	Stylus Length	Graduated
HL-1	0.01mm	0.8mm	27mm	12mm	0-40-0
HL-2	0.01mm	0.8mm	37mm	12mm	0-40-0
HL-3	0.01mm	0.5mm	37mm	36mm	0-25-0
HL-4	0.002mm	0.2mm	37mm	12mm	0-100-0

LEVER TYPE DIAL TEST INDICATORS – IMPERIAL



The Baty HL series of lever-type dial test indicators are top quality, Swiss-made precision instruments. Low inertia jewelled movements and rugged construction make them suitable for universal applications in the workshop and inspection departments.

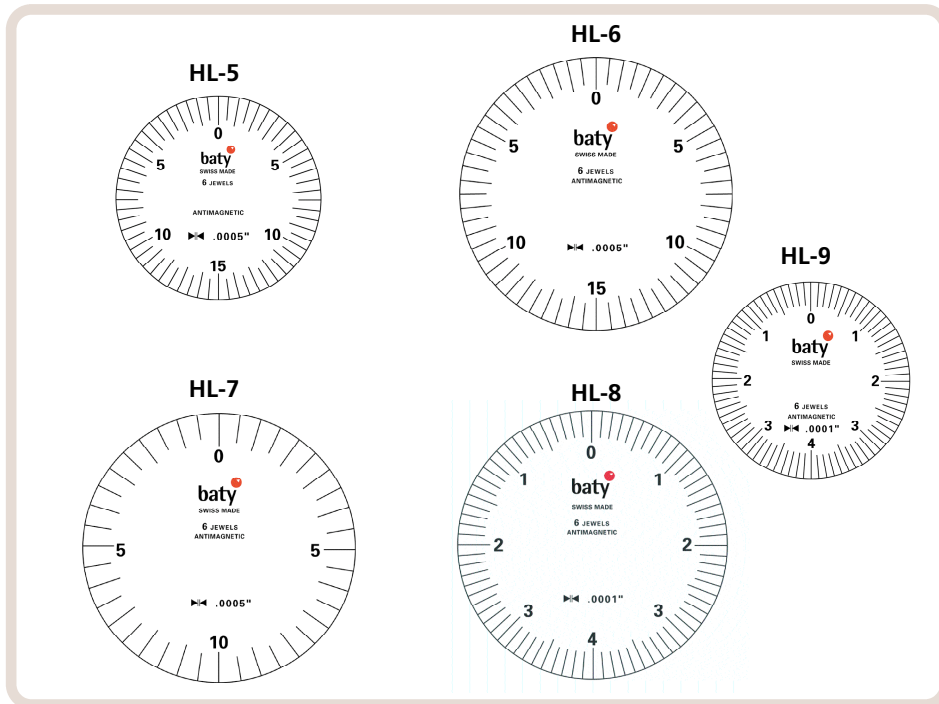
Special Features

- High sensitivity, repeatability and accuracy
- Meet or exceed BS, DIN, Federal and other national standards
- Anti-magnetic
- Automatic reverse action stylus – hand always rotates clockwise
- Adjustable bezel and hand for zeroing
- Rugged, satin chrome finished body
- Three dovetail mountings, top, back and front
- Fully jewelled and geared movement
- Precision ball bearing mounted, interchangeable carbide point swivels through 240°

Baty HL indicators are supplied with:

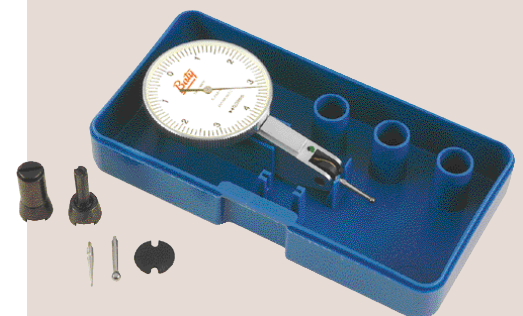
- 2mm diameter contact point – fitted
- 1mm and 3mm diameter interchangeable contact points
- Contact point key
- Dovetail stems 911 and 914
- Tough plastic case

Note: Models HL3 and HL7 are not supplied with additional contact points



Imperial Reading Models

Model	Reading	Measuring Range	Indicator Diameter	Stylus Length	Graduated
HL-5	0.0005"	0.03"	1"	0.5"	0-15-0
HL-6	0.0005"	0.03"	1½"	0.5"	0-15-0
HL-7	0.0005"	0.02"	1½"	1.437"	0-10-0
HL-8	0.0001"	0.008"	1½"	0.5"	0-4-0
HL-9	0.0001"	0.008"	1"	0.5"	0-4-0



Baty HL indicators are supplied packaged as above

LEVER TYPE DIAL TEST INDICATORS – BL SERIES

Features

- Standard: DIN 2270
- Automatic reversal of measuring direction
- High precision fully jewelled bearings
- Rotating dial
- Two dovetail clamps
- Carbide points
- Long range - twice the range of most indicators (BL-9 and BL-10 only)



Model	Range	Graduation	Dial Reading	Dial Diameter	Dial Colour	Feeler Length
BL-1	0.8mm	0.01mm	0-40-0	25mm	white	12mm
BL-2	0.030"	0.0005"	0-15-0	1"	white	1/2"
BL-3	0.8mm	0.01mm	0-40-0	37mm	white	12mm
BL-4	0.030"	0.0005"	0-15-0	1 1/2"	white	1/2"
BL-5	0.2mm	0.002mm	0-100-0	25mm	white	12mm
BL-6	0.008"	0.0001"	0-4-0	1"	white	1/2"
BL-7	0.2mm	0.002mm	0-100-0	37mm	white	12mm
BL-8	0.008"	0.0001"	0-4-0	1/2"	white	1/2"
BL-9	1.6mm	0.01mm	0-40-0	37mm	white	12mm
BL-10	0.060"	0.0005"	0-15-0	1 1/2"	white	1/2"

DIAL TEST INDICATOR ACCESSORIES – BL SERIES



Model	Description
BL-UH	Universal holder
BL-CP1	Contact point 12mm length, 1 mm steel ball
BL-CP2	Contact point 12mm length, 2 mm carbide ball
BL-CP3	Contact point 12mm length, 3mm carbide ball
BL-CP40	Contact point 1/2" length, 0.040" steel ball
BL-CP80	Contact point 1/2" length, 0.080" carbide ball
BL-CP120	Contact point 1/2" length, 0.120" carbide ball

LEVER-TYPE DIAL TEST INDICATORS ACCESSORIES



Model	Description
911	Dovetail Stem 1/4"
912	Dovetail Stem 5.5mm
913	Dovetail Stem 8mm
914	Dovetail Stem 4mm
915	Holding Bar 76 x 12 x 6mm x Ø 5.5mm
916	Holding Bar Round 8mm x 100mm long x Ø 5.5mm
917	Dovetail Swivel Clamp Ø 5.5mm and Ø 9.5mm
927	Dovetail Swivel Clamp 90mm long x Ø 9.5mm
928	Dovetail Swivel Clamp 25mm long x Ø 9.5mm
930	Angular Support Ø 9.5mm and Ø 9.5mm I/D
934	Centering Holder Ø 8mm and 4mm I/D
945	Magnetic stand, fully adjustable, suits plunger and lever type indicators. Max height to knuckle joint 100mm, max reach 120mm with fine adjust
943	Dovetail Swivel Support with fine adjustment 8mm x 120mm long
944	Dovetail Swivel Support with fine adjustment 8mm x 15mm long

All items are compatible with the HL Series Lever Gauges

Model	Stylus	Ømm	Model
333		3	323
332		2	322
331		1	321

length 37mm length 12mm

Available with 1.4mm or 1.6mm thread

CRANKSHAFT ALIGNMENT GAUGE SET

If an engine crankshaft is not correctly aligned in its bearings, it distorts and becomes subject to damaging stresses. Any misalignment causes a change in the distance between webs when the shaft revolves and can be detected by placing an indicating device between the webs.

The Baty crankshaft alignment gauge is designed for this purpose. Its contacts are pointed and fit into dimples in the webs. A heavy spring pressure ensures that the gauge is retained but is free to turn in relation to the crankshaft and an adjustable balance weight restrains the gauge against rotation of the crankshaft so that the dial always faces the inspector.

The gauge covers web-to-web distances of 57-500mm (2¼"-20").

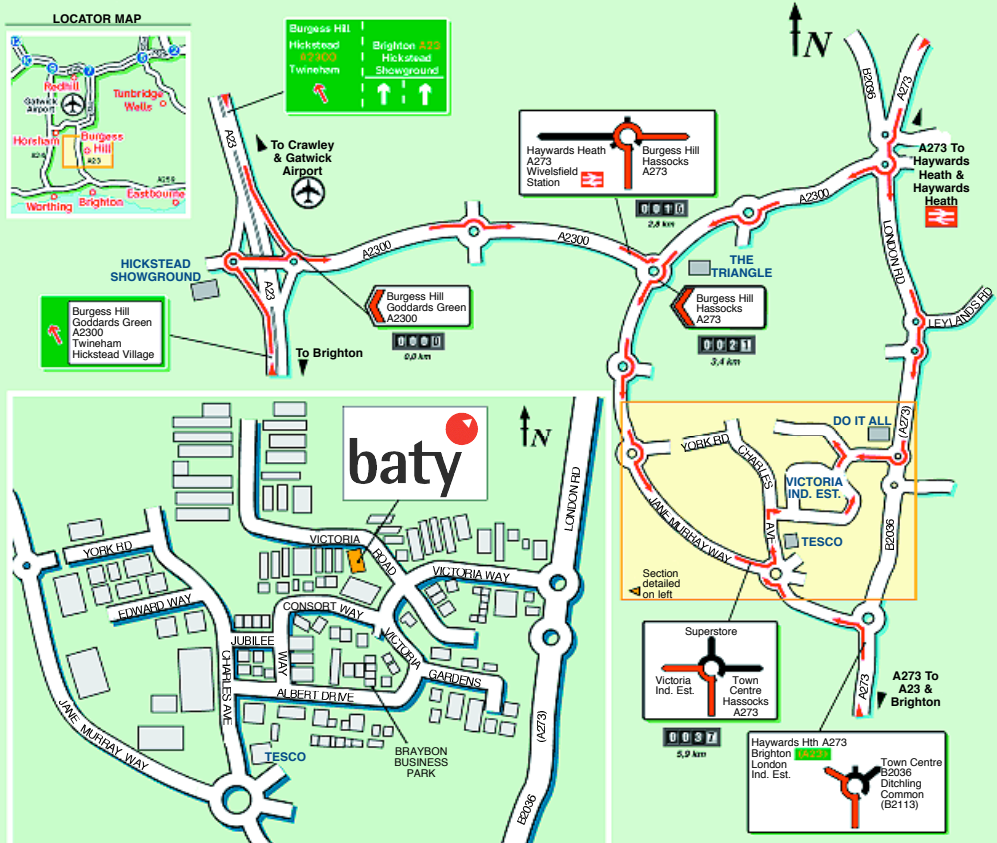
Set supplied in a wooden case.

The special dial indicators may be purchased separately.



Model	Indicator Reading	Web-to-web
2553-D-SET	0.01mm	57-500mm
2552-D-SET	0.0005"	2¼"-20"
2553-D/CG	0.01mm	Indicator only
2552-D/CG	0.0005"	Indicator only

How to find us...



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