

Dial gauges



TESA
TECHNOLOGY

The wide range of analog and digital dial gauges, easy to use and versatile, offers a great selection of models in various configurations.

Digital Models

The operator can easily switch from standard functionalities (EASY model) to advanced features, with a measurement range of up to 150 mm.

Traceability is ensured through the connection to the DATA-VIEWER software.

The display of tolerance results via colored LED indicators allows for clear and visible production control.

Versions with IP67 protective bellows are also available for use in challenging environments.

Analog Models

Resolutions from 0.1 mm to 0.001 mm, combined with measurement ranges up to 50 mm, cover a wide range of applications.

The yellow outline of the dial enhances contrast for better readability.

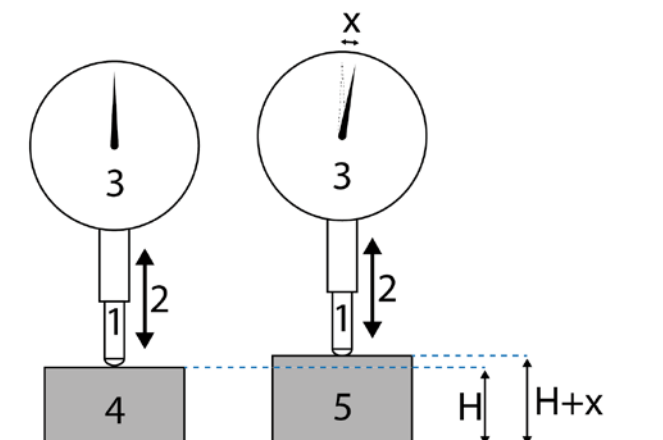
Versions protected by a bellows and a sealed screwed dial are also available for use in harsh environments.

Principle

A comparator is a measuring instrument consisting of two main parts: a movable translational rod (1) whose displacement (2) is transformed by a mechanical device into a measurement value displayed on an analog (3) or digital dial.

The comparator is not an absolute device. All measurements taken are relative to a reference point.

The instrument is then «zeroed» (H) relative to a reference piece (4). The measured length variation (x) on another identical piece (5) is then read on the dial. This value helps determine whether the piece has been correctly manufactured, if it requires adjustment, or if it should be rejected.



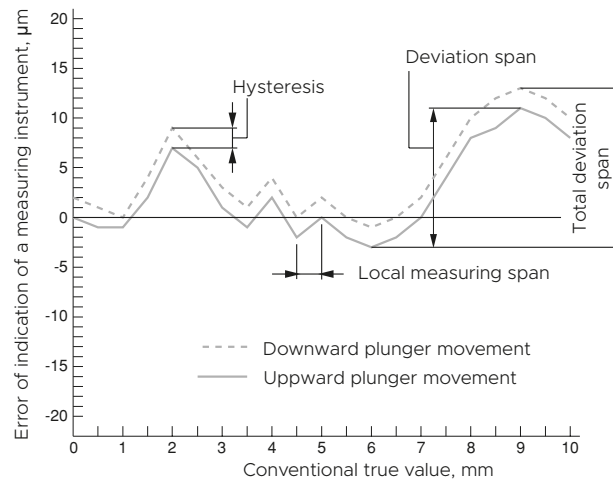
Metrological definitions

International standard ISO 463:2006, is the main standard used for the metrological and dimensional characteristics of dial gauges.

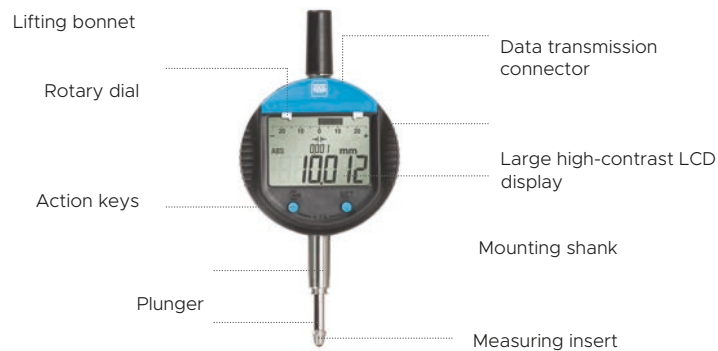
Indication errors for:

- Measuring range (retractable plunger): MPEe
- Partial measuring range: MPEp
 - over 1 revolution
 - over 1/2 revolution
 - over 1/10 revolution
 - over 1 mm
- Hysteresis: MPEh
- Repeatability: MPEr

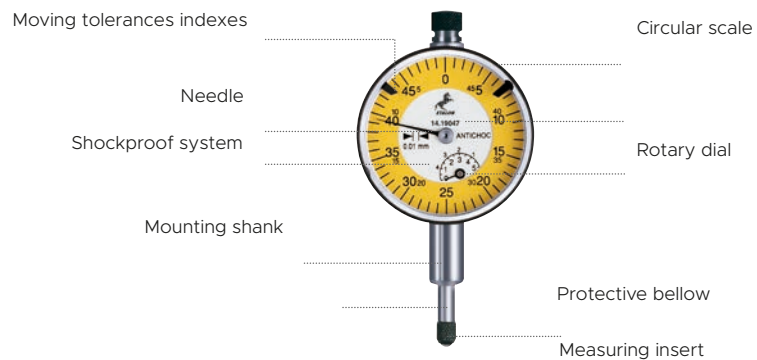
Dial gauges



Digital dial gauges



Analog dial gauge



Digital dial gauges

Series	Article number	Dial, Ø mm	Measuring range, mm	Resolution mm	Degree of protection	Measuring force, N	Number of buttons	Functions	Data output
DIALTRONIC COMPACT	01930260	45	12.5	0.01	IP54	0,5 ÷ 0,9	1	Standard	RS232
	01930261	45	12.5	0.001	IP54	0,5 ÷ 0,9	1	Standard	RS232
	01930263	45	12.5	0.001	IP67	0,6 ÷ 1,3	1	Standard	RS232
DIALTRONIC EASY	01930320	60	12.5	0.01	IP51	0,65 ÷ 0,9	3	Standard	RS232
	01930321	60	12.5	0.001	IP51	0,65 ÷ 0,9	3	Standard	RS232
DIALTRONIC	01930300	60	12.5	0.01	IP54	0,65 ÷ 0,9	3	Advanced	RS232
	01930301	60	12.5	0.001	IP54	0,65 ÷ 0,9	3	Advanced	RS232
	01930303	60	12.5	0.001	IP67	0,7 ÷ 1,4	3	Advanced	RS232
	01930304	60	25	0.01	IP54	0,65 ÷ 1,15	3	Advanced	RS232
	01930305	60	25	0.001	IP54	0,65 ÷ 1,15	3	Advanced	RS232
	01930307	60	25	0.001	IP67	0,65 ÷ 1,8	3	Advanced	RS232
	01930309	60	50	0.001	IP54	1,1 ÷ 2,6	3	Advanced	RS232
	01930311	60	100	0.001	IP54	1,8 ÷ 3,8	3	Advanced	RS232
	01930313	60	150	0.001	IP54	2,6 ÷ 5,7	3	Advanced	RS232
DIALTRONIC BT	01930315	60	12.5	0.001	IP54	0,65 ÷ 0,9	3	Advanced	RS232, Bluetooth®
	01930317	60	25	0.001	IP54	0,65 ÷ 1,15	3	Advanced	RS232, Bluetooth®

Dial gauges

Analogue metric dial gauges

Article number	Resolution, mm	Measuring range, mm	Dial Ø	Travel / revolution, mm	Circular scale	Reading direction	Degree of protection	Shockproof mechanism	Rotating dial	Type
0141760500	0.1	10	40	10	0 ÷ 5 ÷ 10	Clockwise	IP40		•	Standard
0141760501	0.1	10	58	10	0 ÷ 5 ÷ 10	Clockwise	IP40		•	Standard
0141760503	0.1	30	58	10	0 ÷ 5 ÷ 10	Clockwise	IP40		•	Standard
0141760566	0.01	3	40	0.5	0 ÷ 25 ÷ 50	Clockwise	IP40	•	•	Back mounted plunger
01419080	0.01	3.5	28	0.5	0 ÷ 25 ÷ 50	Clockwise	IP40		•	Standard
01419047	0.01	5	40	0.5	0 ÷ 25 ÷ 50	Clockwise	IP40	•	•	Standard
01419081	0.01	5	44.5	0.5	0 ÷ 25 ÷ 50	Clockwise	IP67	•	•	Standard
01419048	0.01	10	58	1	0 ÷ 50 ÷ 100	Clockwise	IP40	•	•	Standard
01419082	0.01	10	61.5	1	0 ÷ 50 ÷ 100	Clockwise	IP67	•	•	Standard
0141760651	0.01	30	58	1	0 ÷ 50 ÷ 100	Clockwise	IP40		•	Standard
0141760661	0.01	50	58	1	0 ÷ 50 ÷ 100	Clockwise	IP40		•	Standard
01419056	0,002	3	44.5	0.2	0 ÷ 10 ÷ 20	Clockwise	IP40	•	•	Standard
01419057	0,002	3	44.5	0.2	0 ÷ 10 ÷ 20	Clockwise	IP67	•	•	Standard
01419058	0,002	5	58	0.2	0 ÷ 10 ÷ 20	Clockwise	IP40	•	•	Standard
01419051	0.001	0.1	62		50 ÷ 0 ÷ 50	Clockwise and anti-clockwise	IP40	•		Standard
01419052	0.001	0.1	62		50 ÷ 0 ÷ 50	Clockwise and anti-clockwise	IP54	•		Standard
01419053	0.001	1	40	0.2	0 ÷ 10 ÷ 20	Clockwise	IP40	•	•	Standard
01419054	0.001	1	58	0.2	0 ÷ 10 ÷ 20	Clockwise	IP40	•	•	Standard
01419055	0.001	5	58	0.2	0 ÷ 10 ÷ 20	Clockwise	IP40	•	•	Standard

DIALTRONIC COMPACT series

• FUNCTIONS

- Zeroing
- Adjustable PRESET with Computer connection
- Data transmission
- mm/in selection
- Selection of measurement direction
- Automatic switch-off



01930260



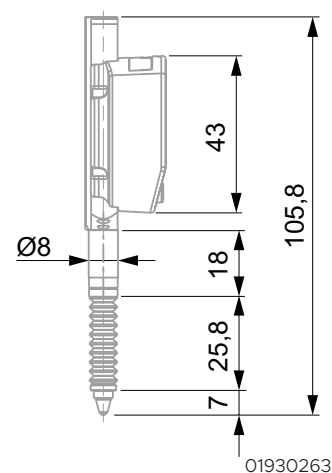
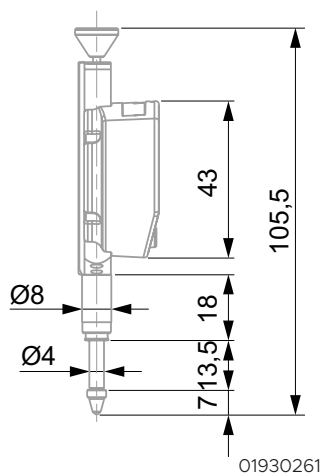
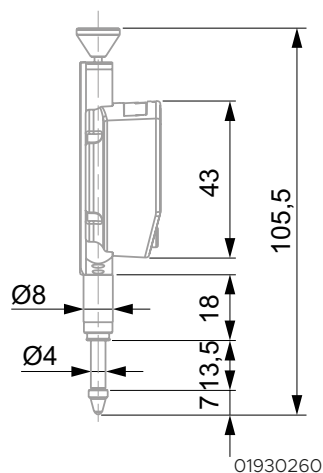
01930261



01930263

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	12,5 mm / .5 in
Resolution	0,01 or 0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP54 or IP67
Data output(s)	RS232
Units	mm / in
Included in delivery	Dial gauge with mounted ball insert Ø 3 mm Measurement report Quickstart guide

Digital dial gauges



Article number	Ø Dial mm	Ø Dial in	Degree of protection	Data output	Measuring force N	Number of buttons
01930260	45	1.77	IP54	RS232	0,5 ÷ 0,9	1
01930261	45	1.77	IP54	RS232	0,5 ÷ 0,9	1
01930263	45	1.77	IP67	RS232	0,6 ÷ 1,3	1

Article number	MPEe, retractable plunger, µm	MPEe, retractable plunger, in	MPEp, 1 mm µm	MPEp, 1 mm in	MPEr µm	MPEr in
01930260	10 ± 1 digit	.0005 ± 1 digit	8	.0003	2	.0001
01930261	4	.0002	3	.0001	2	.0001
01930263	4	.0002	3	.0001	2	.0001

MPEe: indication error on the measuring range (retractable plunger)

MPEp: indication error on partial measuring range

MPEr: repeatability of the indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
01961012	Device for plunger retraction for DIALTRONIC COMPACT dial gauge
04760161	Cable power to USB, 3 m
04760162	Cable power (90 degrees) to USB, 3 m

DIALTRONIC EASY series

• FUNCTIONS

- Zeroing / Preset
- Data transmission
- mm/in selection
- Selection of measurement direction
- Automatic or manual switch-off
- Locking of the measured value



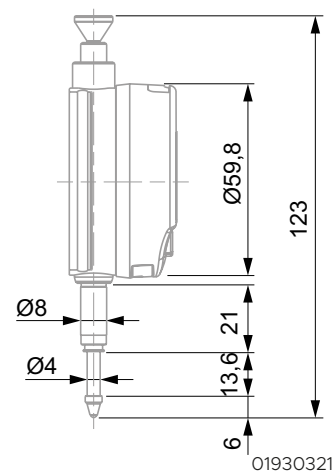
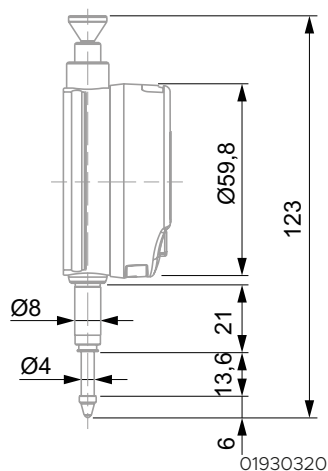
01930320



01930321

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	12,5 mm / .5 in
Resolution	0,01 or 0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP51
Data output(s)	RS232
Units	mm / in
Included in delivery	Dial gauge with mounted ball insert Ø 3 mm Measurement report Quickstart guide

Digital dial gauges



Article number	Ø Dial mm	Ø Dial in	Degree of protection	Data output	Measuring force N	Number of buttons
01930320	60	2.36	IP51	RS232	0,65 ÷ 0,9	3
01930321	60	2.36	IP51	RS232	0,65 ÷ 0,9	3

Article number	MPEe, retractable plunger, µm	MPEe, retractable plunger, in	MPEp, 1 mm µm	MPEp, 1 mm in	MPEr µm	MPEr in
01930320	10 ± 1 digit	.0005 ± 1 digit	8	.0003	2	.0001
01930321	4	.0002	3	.0001	2	.0001

MPEe: indication error on the measuring range (retractable plunger)

MPEp: indication error on partial measuring range

MPEr: repeatability of the indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
01960101	Device for plunger retraction for DIALTRONIC dial gauge
01960100	Back with central lug for DIALTRONIC dial gauge
04760160	Cable inductive to USB, 3 m
04760161	Cable power to USB, 3 m
04760162	Cable power (90 degrees) to USB, 3 m

DIALTRONIC series, measuring range 12,5 mm

• FUNCTIONS

- Switching of the counting direction
- Automatic sleep mode
- RS232 data output
- PRESET mode
- 2 storable references
- MAX, MIN, MAX-MIN (TIR)
- Change of resolution
- Multiplication factor
- Locking of the keys
- Storage of the measured value
- Reset of the value
- Button for recall of PRESET value
- Setting of tolerances
- Wireless data output (01930315)



01930300



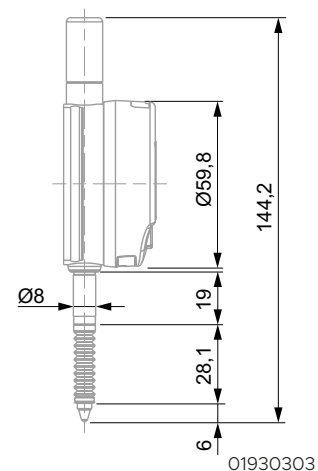
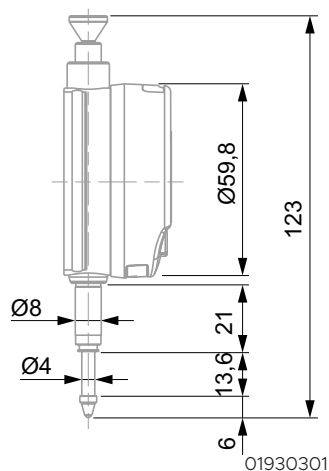
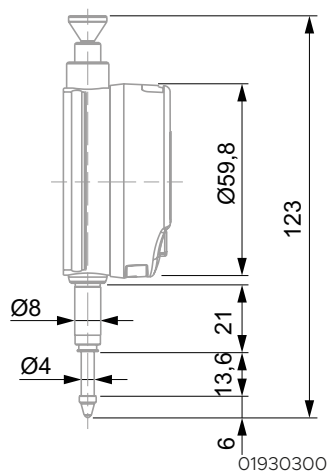
01930301



01930303

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	12,5 mm / .5 in
Resolution	0,01 or 0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP54 or IP67
Data output(s)	RS232 or Bluetooth®
Units	mm / in
Included in delivery	Dial gauge with mounted ball insert Ø 3 mm Measurement report Quickstart guide

Digital dial gauges



Article number	Ø Dial mm	Ø Dial in	Degree of protection	Data output	Measuring force N	Number of buttons
01930300	60	2.36	IP54	RS232	0,65 ÷ 0,9	3
01930301	60	2.36	IP54	RS232	0,65 ÷ 0,9	3
01930303	60	2.36	IP67	RS232	0,7 ÷ 1,4	3
01930315	60	2.36	IP54	RS232 and Bluetooth®	0,65 ÷ 0,9	3

Article number	MPEe, retractable plunger, µm	MPEe, retractable plunger, in	MPEp, 1 mm µm	MPEp, 1 mm in	MPEr µm	MPEr in
01930300	10 ± 1 digit	.0005 ± 1 digit	8	.0003	2	.0001
01930301	3	.0001	2,6	.0001	2	.0001
01930303	3	.0001	2,6	.0001	2	.0001
01930315	3	.0001	2,6	.0001	2	.0001

MPEe: indication error on the measuring range (retractable plunger)

MPEp: indication error on partial measuring range

MPEr: repeatability of the indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
01960101	Device for plunger retraction for DIALTRONIC dial gauge
01960100	Back with central lug for DIALTRONIC dial gauge
04760160	Cable inductive to USB, 3 m
04760161	Cable power to USB, 3 m
04760162	Cable power (90 degrees) to USB, 3 m

DIALTRONIC series, measuring range 25 mm

• FUNCTIONS

- Switching of the counting direction
- Automatic sleep mode
- RS232 data output
- PRESET mode
- 2 storable references
- MAX, MIN, MAX-MIN (TIR)
- Change of resolution
- Multiplication factor
- Locking of the keys
- Storage of the measured value
- Reset of the value
- Button for recall of PRESET value
- Setting of tolerances



01930304



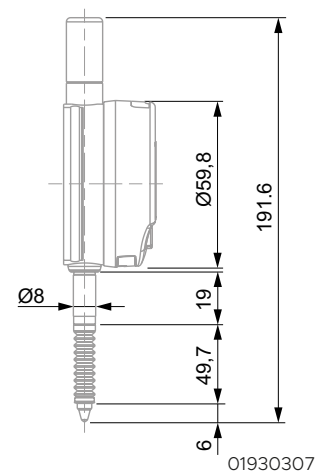
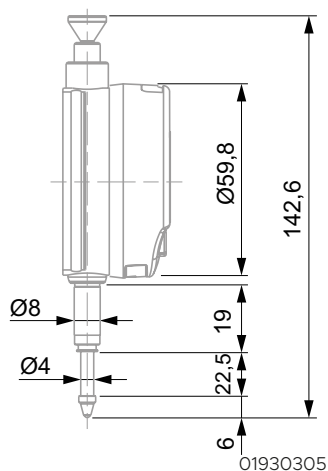
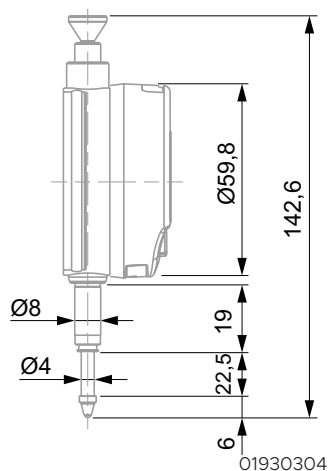
01930305



01930307

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	25 mm / 1 in
Resolution	0,01 or 0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP54 or IP67
Data output(s)	RS232 or Bluetooth®
Units	mm / in
Included in delivery	Dial gauge with mounted ball insert Ø 3 mm Measurement report Quickstart guide

Digital dial gauges



Article number	Ø Dial mm	Ø Dial in	Degree of protection	Data output	Measuring force N	Number of buttons
01930304	60	2.36	IP54	RS232	0,65 ÷ 1,15	3
01930305	60	2.36	IP54	RS232	0,65 ÷ 1,15	3
01930307	60	2.36	IP67	RS232	0,65 ÷ 1,8	3
01930317	60	2.36	IP54	RS232 and Bluetooth®	0,65 ÷ 1,15	3

Article number	MPEe, retractable plunger, µm	MPEe, retractable plunger, in	MPEp, 1 mm µm	MPEp, 1 mm in	MPEr µm	MPEr in
01930304	10 ± 1 digit	.0005 ± 1 digit	2,6	.0001	2	.0001
01930305	4	.0002	2,6	.0001	2	.0001
01930307	4	.0002	2,6	.0001	2	.0001
01930317	4	.0002	2,6	.0001	2	.0001

MPEe: indication error on the measuring range (retractable plunger)
MPEp: indication error on partial measuring range
MPEr: repeatability of the indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
01960102	Device for plunger retraction for DIALTRONIC dial gauge
01960100	Back with central lug for DIALTRONIC dial gauge
04760160	Cable inductive to USB, 3 m
04760161	Cable power to USB, 3 m
04760162	Cable power (90 degrees) to USB, 3 m

DIALTRONIC series, measuring range 50 mm

• FUNCTIONS

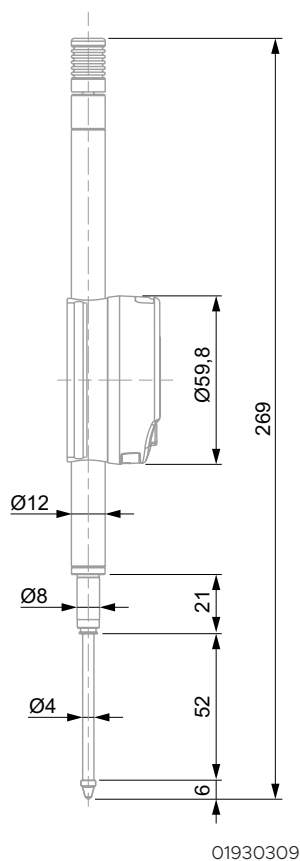
- Switching of the counting direction
- Automatic sleep mode
- RS232 data output
- PRESET mode
- 2 storable references
- MAX, MIN, MAX-MIN (TIR)
- Change of resolution
- Multiplication factor
- Locking of the keys
- Storage of the measured value
- Reset of the value
- Button for recall of PRESET value
- Setting of tolerances



01930309

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	50 mm / 2 in
Resolution	0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP54
Data output(s)	RS232
Units	mm / in
Included in delivery	Dial gauge with mounted ball insert Ø 3 mm Measurement report Quickstart guide

Digital dial gauges



Article number	Ø Dial mm	Ø Dial in	Degree of protection	Data output	Measuring force N	Number of buttons
01930309	60	2.36	IP54	RS232	1,1 ÷ 2,6	3

Article number	MPEe, retractable plunger, µm	MPEe, retractable plunger, in	MPEp, 1 mm µm	MPEp, 1 mm in	MPEr µm	MPEr in
01930309	5	.0002	3,2	.00015	2	.0001

MPEe: indication error on the measuring range (retractable plunger)

MPEp: indication error on partial measuring range

MPEr: repeatability of the indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
01960100	Back with central lug for DIALTRONIC dial gauge
04760160	Cable inductive to USB, 3 m
04760161	Cable power to USB, 3 m
04760162	Cable power (90 degrees) to USB, 3 m

DIALTRONIC series, measuring range 100 mm

• FUNCTIONS

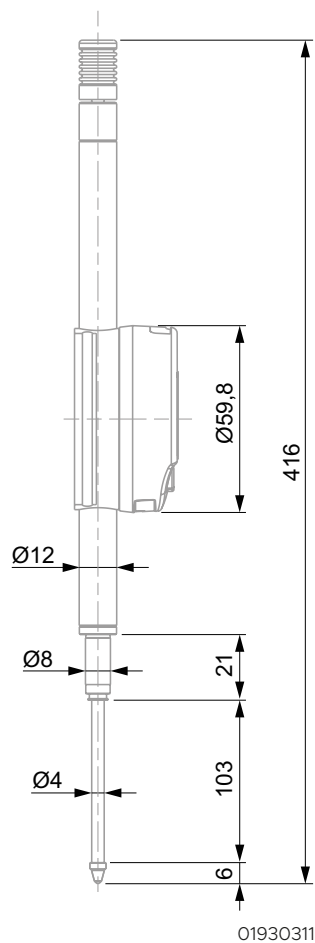
- Switching of the counting direction
- Automatic sleep mode
- RS232 data output
- PRESET mode
- 2 storable references
- MAX, MIN, MAX-MIN (TIR)
- Change of resolution
- Multiplication factor
- Locking of the keys
- Storage of the measured value
- Reset of the value
- Button for recall of PRESET value
- Setting of tolerances

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	100 mm / 4 in
Resolution	0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP54
Data output(s)	RS232
Units	mm / in
Included in delivery	Dial gauge with mounted ball insert Ø 3 mm Measurement report Quickstart guide



01930311

Digital dial gauges



Article number	Ø Dial mm	Ø Dial in	Degree of protection	Data output	Measuring force N	Number of buttons
01930311	60	2.36	IP54	RS232	1,8 ÷ 3,8	3

Article number	MPEe, retractable plunger, µm	MPEe, retractable plunger, in	MPEp, 1 mm µm	MPEp, 1 mm in	MPEr µm	MPEr in
01930311	6	.00025	3,2	.00015	2	.0001

MPEe: indication error on the measuring range (retractable plunger)

MPEp: indication error on partial measuring range

MPEr: repeatability of the indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
01960100	Back with central lug for DIALTRONIC dial gauge
04760160	Cable inductive to USB, 3 m
04760161	Cable power to USB, 3 m
04760162	Cable power (90 degrees) to USB, 3 m

DIALTRONIC series, measuring range 150 mm

• FUNCTIONS

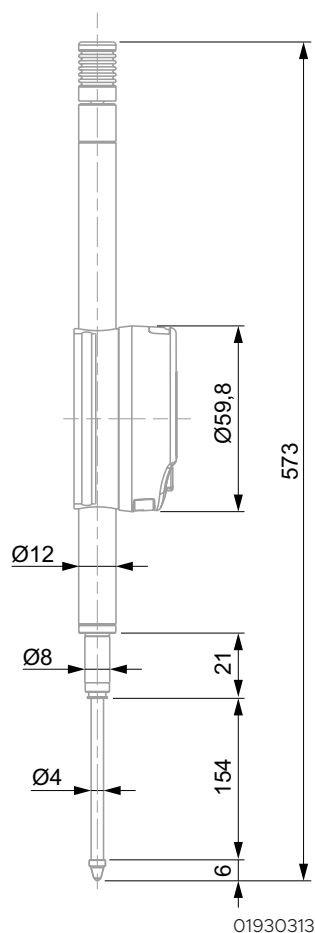
- Switching of the counting direction
- Automatic sleep mode
- RS232 data output
- PRESET mode
- 2 storable references
- MAX, MIN, MAX-MIN (TIR)
- Change of resolution
- Multiplication factor
- Locking of the keys
- Storage of the measured value
- Reset of the value
- Button for recall of PRESET value
- Setting of tolerances

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	150 mm / 6 in
Resolution	0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP54
Data output(s)	RS232
Units	mm / in
Included in delivery	Dial gauge with mounted ball insert Ø 3 mm Measurement report Quickstart guide



01930313

Digital dial gauges



Article number	Ø Dial mm	Ø Dial in	Degree of protection	Data output	Measuring force N	Number of buttons
01930313	60	2.36	IP54	RS232	2,6 ÷ 5,7	3

Article number	MPEe, retractable plunger, µm	MPEe, retractable plunger, in	MPEp, 1 mm µm	MPEp, 1 mm in	MPEr µm	MPEr in
01930313	10	.0004	3,2	.00015	2	.0001

MPEe: indication error on the measuring range (retractable plunger)

MPEp: indication error on partial measuring range

MPEr: repeatability of the indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
01960100	Back with central lug for DIALTRONIC dial gauge
04760160	Cable inductive to USB, 3 m
04760161	Cable power to USB, 3 m
04760162	Cable power (90 degrees) to USB, 3 m

Standard models, resolution 0,1 mm, measuring range 10 mm

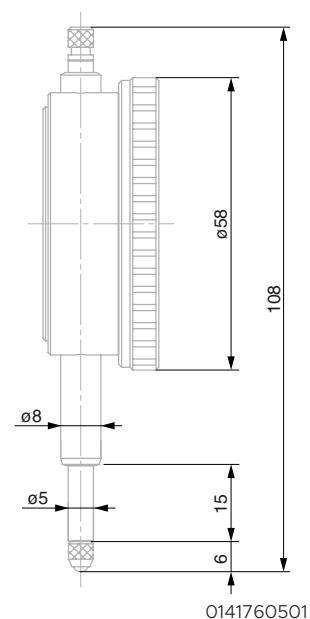
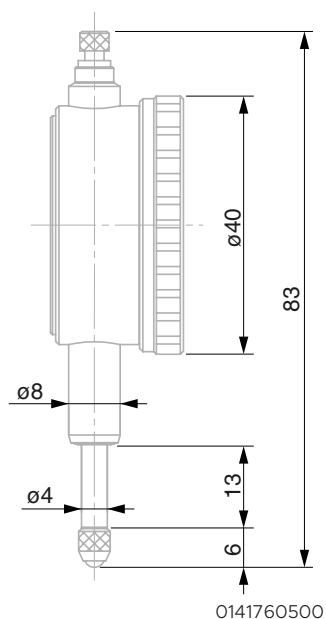

0141760500



0141760501

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	10 mm
Resolution	0,1 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force N	Color
0141760500	40	10	0 ÷ 5 ÷ 10	IP40	Without	1 ± 20%	Internal dial: white External dial: white Numerals: black
0141760501	58	10	0 ÷ 5 ÷ 10	IP40	Without	0,7 ± 20%	Internal dial: white External dial: white Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
0141760500	50	40	30	15	15
0141760501	50	40	30	15	15

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

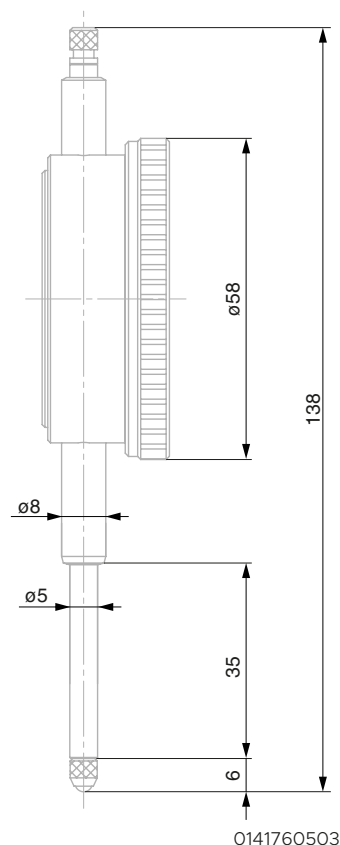
Article number	Designation
01462004	Back with central lug for IP40 dial gauges with Ø 40 or Ø 44,5 mm dial
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial
03560004	Device for plunger retraction for dial gauge with a Ø 40 or Ø 44,5 mm dial
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial
01960005	Device for plunger retraction

Standard model, resolution 0,1 mm, measuring range 30 mm


0141760503

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	30 mm
Resolution	0,1 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



Article number	Ø Dial mm	Travel / revolution mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force N	Color
0141760503	58	10	0 ÷ 5 ÷ 10	IP40	Without	0,8 ± 20%	Internal dial: white External dial: white Numerals: black and red

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
0141760503	50	40	30	15	15

MPEe: indication error on the measuring range (retractable plunger)
MPEp 1/10: indication error on 1/10 rotation
MPEp 1/2: indication error on 1/2 rotation
MPEr: repeatability of the indication error
MPEh: hysteresis of indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial
01462005	Back with central lug, for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial

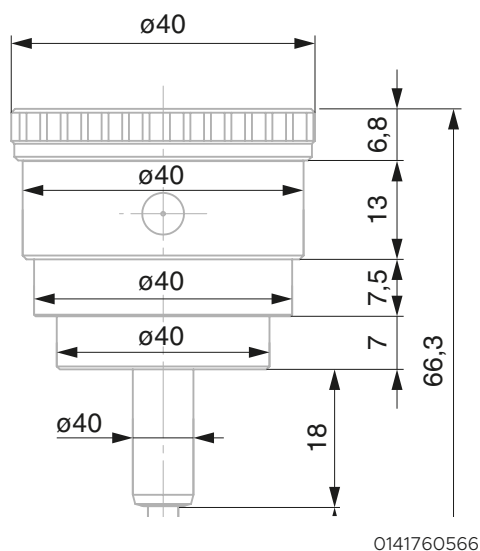
Model with back mounted plunger, resolution 0,01 mm, measuring range 3 mm



0141760566

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	3 mm
Resolution	0,01 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force N	Color
0141760566	40	0,5	0 ÷ 25 ÷ 50	IP40	With	1,5 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
0141760566	12	8	5	5	3

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

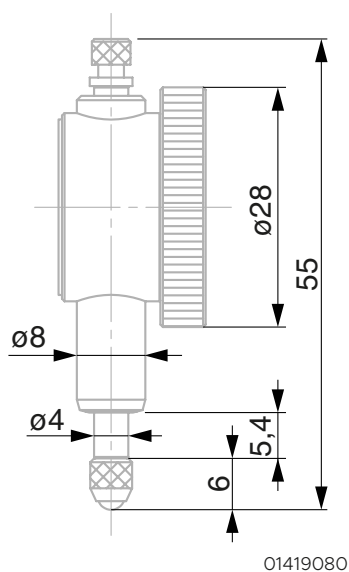
Article number	Designation
01960005	Device for plunger retraction
03540104	Device for plunger retraction for dial gauge with stroke < 5 mm
03560004	Device for plunger retraction for dial gauge with a Ø 40 or Ø 44,5 mm dial

Standard model, resolution 0,01 mm, measuring range 3,5 mm


01419080

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	3,5 mm
Resolution	0,01 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force N	Color
01419080	28	0,5	0 ÷ 25 ÷ 50	IP40	Without	0,8 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
01419080	17	9	5	5	3

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction

Standard models, resolution 0,01 mm, measuring range 5 mm

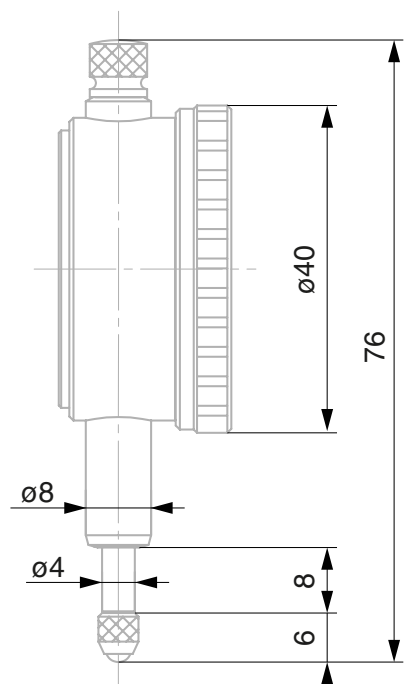

01419047



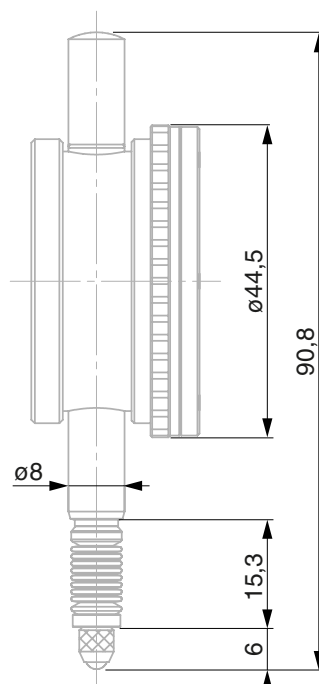
01419081

Standard	Dimensions: ISO 463 (01419047), factory standard (01419081) Performances: DIN 878
Measuring range	5 mm
Resolution	0,01 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



01419047



01419081

Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force, N	Color
01419047	40	0,5	0 ÷ 25 ÷ 50	IP40	With	0,7 ± 10%	Internal dial: white External dial: yellow Numerals: black
01419081	44,5	0,5	0 ÷ 20 ÷ 50	IP67	With	0,9 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
01419047	12	9	5	3	3
01419081	12	9	5	3	3

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

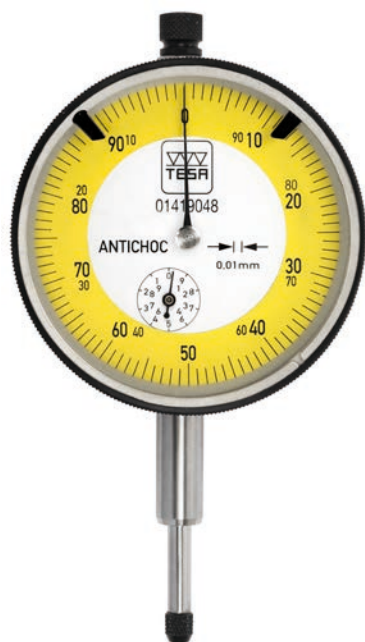
MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
03540104	Device for plunger retraction for dial gauge with stroke < 5 mm
03560004	Device for plunger retraction for dial gauge with a Ø 40 or Ø 44,5 mm dial
01462004	Back with central lug for IP40 dial gauges with Ø 40 or Ø 44,5 mm dial
01460020	Back with central lug for IP67 dial gauges with Ø 40 or Ø 44,5 mm dial

Standard models, resolution 0,01 mm, measuring range 10 mm


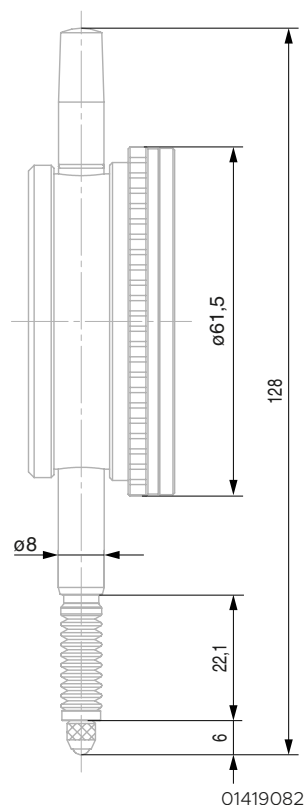
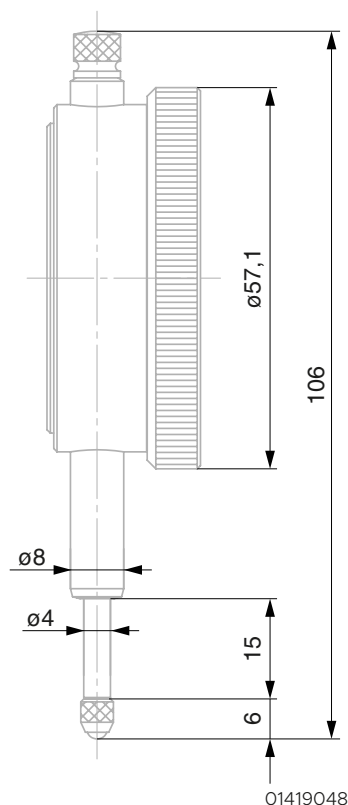
01419048



01419082

Standard	Dimensions: ISO 463 (01419048), factory standard (01419082) Performances: DIN 878
Measuring range	10 mm
Resolution	0,01 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40 or IP67
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force, N	Color
01419048	58	1	0 ÷ 50 ÷ 100	IP40	With	0,7 ± 20%	Internal dial: white External dial: yellow Numerals: black
01419082	61,5	1	0 ÷ 50 ÷ 100	IP67	With	1,3 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
01419048	15	9	5	3	3
01419082	15	9	5	3	3

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

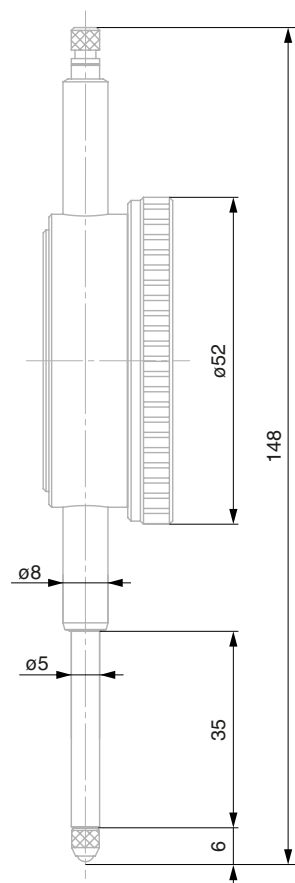
Article number	Designation
01960005	Device for plunger retraction
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial
01460021	Back with central lug for IP67 dial gauges with Ø 58 or Ø 61,5 mm dial

Standard model, resolution 0,01 mm, measuring range 30 mm


0141760651

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	30 mm
Resolution	0,01 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



0141760651

Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force, N	Color
0141760651	58	1	0 ÷ 50 ÷ 100	IP40	Without	0,8 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
0141760651	20	10	5	5	3

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

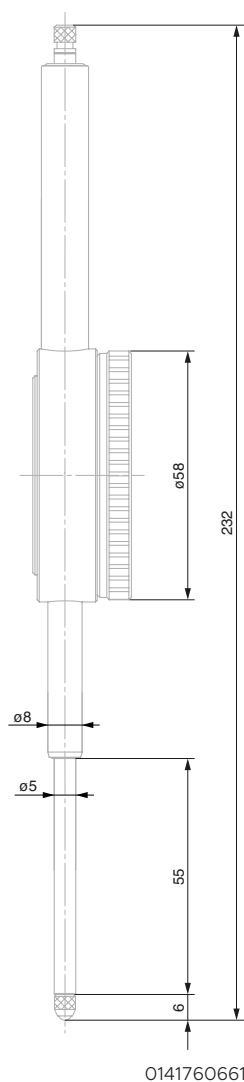
Article number	Designation
01960005	Device for plunger retraction
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial

Standard model, resolution 0,01 mm, measuring range 50 mm


0141760661

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	50 mm
Resolution	0,01 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



0141760661

Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force N	Color
0141760661	58	1	0 ÷ 50 ÷ 100	IP40	Without	1 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEr µm
0141760661	25	10	5	3

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial

Standard models, resolution 0,002 mm, measuring range 3 mm

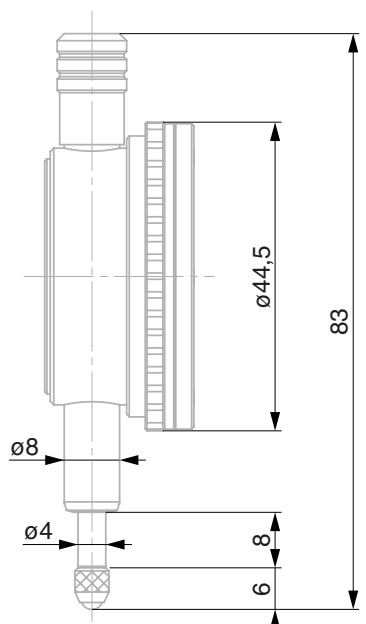

01419056



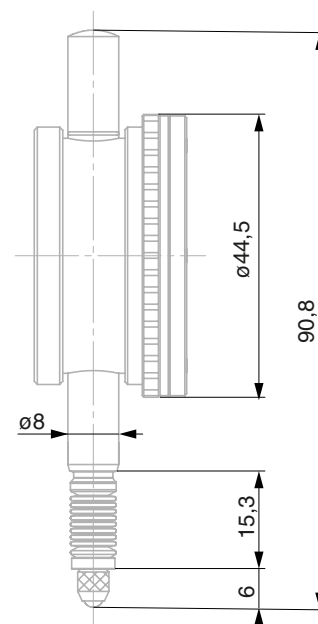
01419057

Standard	Dimensions: ISO 463 (01419056), factory standard (01419057) Performances: factory standard
Measuring range	3 mm
Resolution	0,002 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40 or IP67
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



01419056



01419057

Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force, N	Color
01419056	44,5	0,2	0 ÷ 10 ÷ 20	IP40	With	1,1 ± 20%	Internal dial: white External dial: yellow Numerals: black and red
01419057	44,5	0,2	0 ÷ 10 ÷ 20	IP67	With	1,3 ± 20%	Internal dial: white External dial: yellow Numerals: black and red

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
01419056	7	4	3	3	0,5
01419057	7	4	3	3	0,5

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

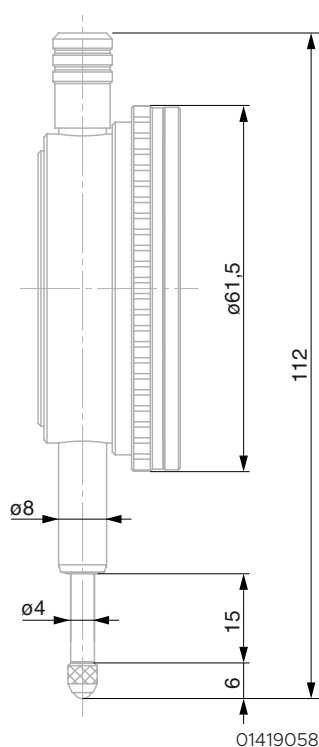
Article number	Designation
01960005	Device for plunger retraction
03540104	Device for plunger retraction for dial gauge with stroke < 5 mm
03560004	Device for plunger retraction for dial gauge with a Ø 40 or Ø 44,5 mm dial
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial
01460020	Back with central lug for IP67 dial gauges with Ø 40 or Ø 44,5 mm dial

Standard model, resolution 0,002 mm, measuring range 5 mm


01419058

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	5 mm
Resolution	0,002 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force, N	Color
01419058	58	0,2	0 ÷ 10 ÷ 20	IP40	With	1,4 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
01419058	10	4	3	3	0,5

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
03540104	Device for plunger retraction for dial gauge with stroke < 5 mm
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial

Standard models, resolution 0,001 mm, measuring range 0,1 mm
• INSTRUMENT

- High precision comparators
- Short stroke
- Movement protected from shocks
- Stroke limited to less than one needle turn
- Fine adjustment of the indication with a protective cap against accidental movement of the needle
- Large dead travel

- MEASUREMENT

- Designed for comparative measurement with very low measurement uncertainty
- Very low hysteresis when checking axial and radial runout



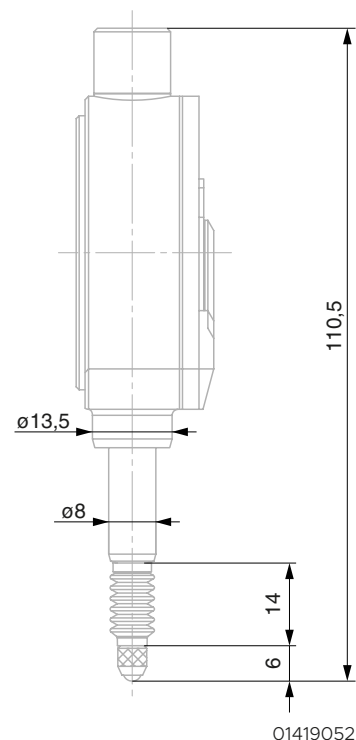
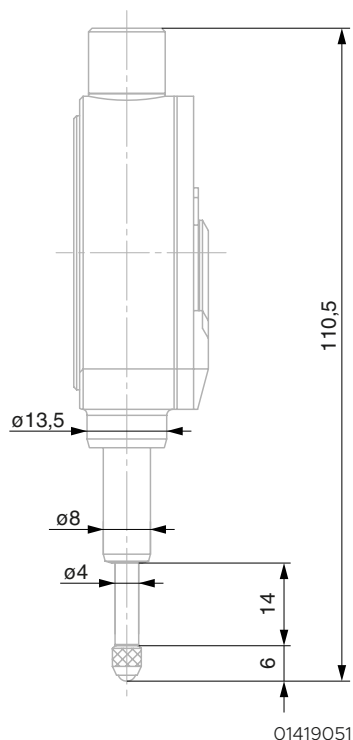
01419051



01419052

Standard	Dimensions: DIN 879-1 Performances: DIN 879-1
Measuring range	0,1 mm
Resolution	0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40 or IP54
Dial	Moving tolerances indexes
Reading direction	Clockwise and anti-clockwise
Units	mm
Remark(s)	Measuring bolt mounted on a ball bearing Thread for lifting cable
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



Article number	Ø Dial mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force N	Color
01419051	62	50 ÷ 0 ÷ 50	IP40	With	1 ± 20%	Internal dial: white Numerals: black
01419052	62	50 ÷ 0 ÷ 50	IP54	With	1,1 ± 20%	Internal dial: white Numerals: black

Article number	Ge µm	Gt µm	Fu µm	Rw µm
01419051	1	0,7	0,5	0,5
01419052	1	0,7	0,5	0,5

Gges: indication error on the measuring range (retractable and extendable plunger)

Ge: indication error on the measuring range (retractable plunger)

Gt: indication error over any local area including 10 divisions

Fu: hysteresis of indication error

Rw: repeatability of the indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
03540104	Device for plunger retraction for dial gauge with stroke < 5 mm
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial

Standard models, resolution 0,001 mm, measuring range 1 mm

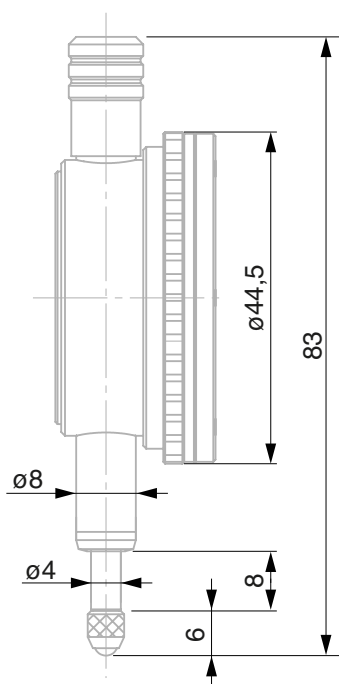

01419053



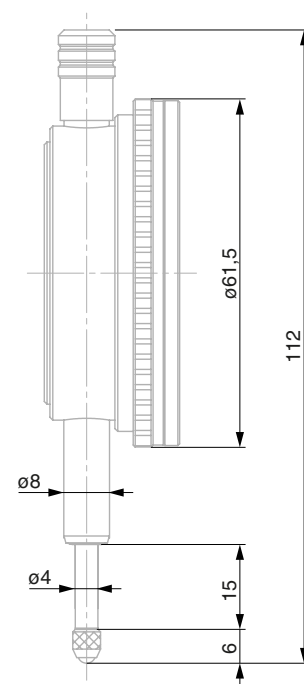
01419054

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	1 mm
Resolution	0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



01419053



01419054

Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force, N	Color
01419053	44,5	0,2	0 ÷ 10 ÷ 20	IP40	With	1 ± 20%	Internal dial: white External dial: yellow Numerals: black
01419054	61,5	0,2	0 ÷ 10 ÷ 20	IP40	With	1,4 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
01419053	5	3	2	3	0,5
01419054	5	3	2	3	0,5

MPEe: indication error on the measuring range (retractable plunger)

MPEp 1/10: indication error on 1/10 rotation

MPEp 1/2: indication error on 1/2 rotation

MPEr: repeatability of the indication error

MPEh: hysteresis of indication error

Accessories

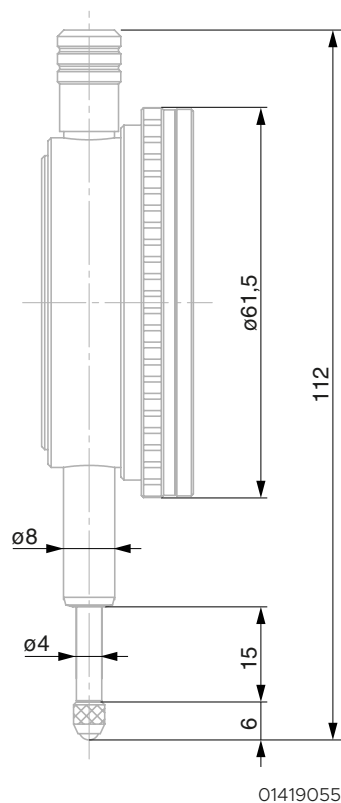
Article number	Designation
01960005	Device for plunger retraction
03540104	Device for plunger retraction for dial gauge with stroke < 5 mm
03560004	Device for plunger retraction for dial gauge with a Ø 40 or Ø 44,5 mm dial
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial
01462004	Back with central lug for IP40 dial gauges with Ø 40 or Ø 44,5 mm dial
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial

Standard model, resolution 0,001 mm, measuring range 5 mm


01419055

Standard	Dimensions: ISO 463 Performances: factory standard
Measuring range	5 mm
Resolution	0,001 mm
Material	Casing: metallic Mounting shank: stainless steel Plunger: stainless steel
Dimensions	Insert thread: M2,5 Mounting shank: Ø 8 mm
Degree of protection	IP40
Dial	Rotating dial Moving tolerances indexes
Reading direction	Clockwise
Units	mm
Included in delivery	Dial gauge with mounted ball insert Ø 3,175 mm Declaration of conformity

Analogue dial gauges, metric



Article number	Ø Dial mm	Travel / revolution, mm	Circular scale	Degree of protection	Shockproof mechanism	Measuring force N	Color
01419055	61,5	0,2	0 ÷ 10 ÷ 20	IP40	With	1,4 ± 20%	Internal dial: white External dial: yellow Numerals: black

Article number	MPEe, retractable plunger, µm	MPEp 1/2 µm	MPEp 1/10 µm	MPEh µm	MPEr µm
01419055	10	4	3	3	0,5

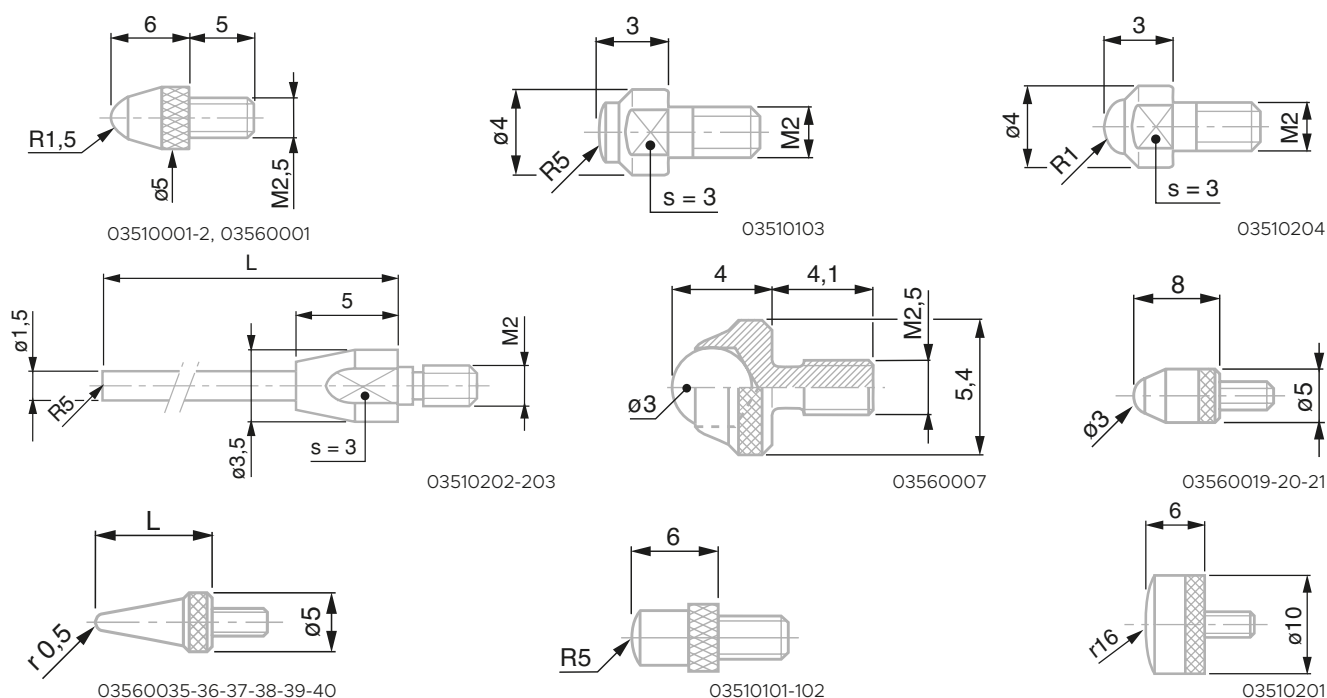
MPEe: indication error on the measuring range (retractable plunger)
 MPEp 1/10: indication error on 1/10 rotation
 MPEp 1/2: indication error on 1/2 rotation
 MPEr: repeatability of the indication error
 MPEh: hysteresis of indication error

Accessories

Article number	Designation
01960005	Device for plunger retraction
03540104	Device for plunger retraction for dial gauge with stroke < 5 mm
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial

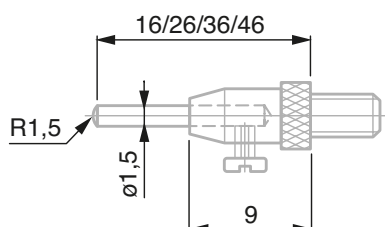
Hemispherical inserts

Article number	Designation	Fixing mm	Radius mm	Probe length mm	Diameter mm	Material
03510103	Hemispherical insert	M2	1	3	4	Tungsten carbide
03510204	Hemispherical insert	M2	1	3	4	Tungsten carbide
03510202	Hemispherical insert	M2	5	16	1,5	Tungsten carbide
03510203	Hemispherical insert	M2	5	26	1,5	Tungsten carbide
03560035	Hemispherical insert	M2,5	0,5	5	5	Steel
03560036	Hemispherical insert	M2,5	0,5	5	5	Steel
03560037	Hemispherical insert	M2,5	0,5	15	5	Steel
03560038	Hemispherical insert	M2,5	0,5	20	5	Steel
03560039	Hemispherical insert	M2,5	0,5	30	5	Steel
03560040	Hemispherical insert	M2,5	0,5	40	5	Steel
03560007	Hemispherical insert	M2,5	1,5	4	5,4	Tungsten carbide
03510001	Hemispherical insert	M2,5	1,5	6	5	Steel
03510002	Hemispherical insert	M2,5	1,5	6	5	Tungsten carbide
03560001	Hemispherical insert	M2,5	1,5	6	5	Sapphire
03560019	Hemispherical insert	M2,5	1,5	8	8	Steel
03560020	Hemispherical insert	M2,5	1,5	8	8	Tungsten carbide
03560021	Hemispherical insert	M2,5	1,5	8	8	Ruby
03510101	Hemispherical insert	M2,5	5	6	5	Steel
03510102	Hemispherical insert	M2,5	5	6	5	Tungsten carbide
03560017	Hemispherical insert	M2,5	16	6	10	Steel
03560018	Hemispherical insert	M2,5	16	6	10	Tungsten carbide



Hemispherical measuring insert with 4 interchangeable pins

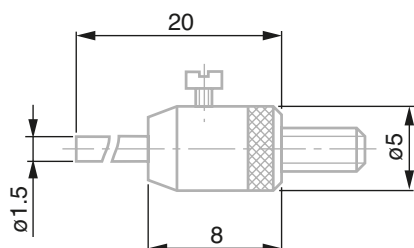
Article number	Designation	Fixing mm	Measuring face(s)	Probe length mm	Diameter mm	Material
03510201	Hemispherical insert with interchangeable pins	M2,5	R1,5	16, 26, 36, 46	1,5	Steel



Inserts for dial gauges

Inserts with flat measuring face and interchangeable pins

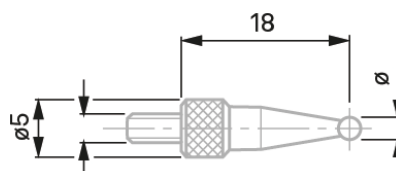
Article number	Designation	Fixing mm	Probe length mm	Diameter mm	Material	Particular characteristic(s)
03560008	Insert with exchangeable contact pin	M2,5	20	1,5	Steel	Flat measuring face
03560009	Insert with exchangeable contact pin	M2,5	20	1,5	Tungsten carbide	Flat measuring face



03560008

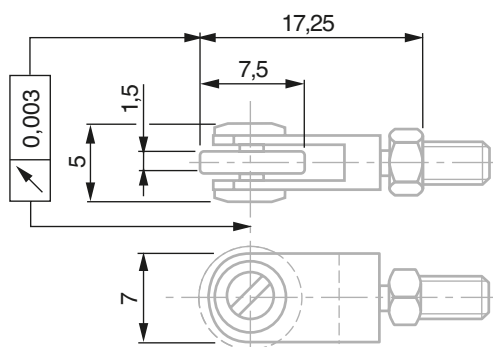
Ball tip inserts

Article number	Designation	Fixing mm	Probe length mm	Diameter mm	Material
03560051	Ball insert	M2,5	18	1	Tungsten carbide
03560052	Ball insert	M2,5	18	2	Tungsten carbide
03560053	Ball insert	M2,5	18	3	Tungsten carbide
03560054	Ball insert	M2,5	18	4	Tungsten carbide
03560055	Ball insert	M2,5	18	5	Tungsten carbide
03560056	Ball insert	M2,5	18	6	Tungsten carbide
03560057	Ball insert	M2,5	18	7	Tungsten carbide
03560058	Ball insert	M2,5	18	8	Tungsten carbide



Inserts with rollers

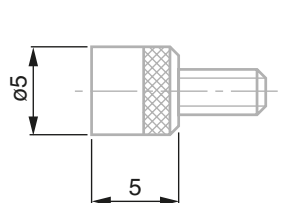
Article number	Designation	Fixing mm	Probe length mm	Material	Particular characteristic(s)
03560010	Insert with ball-bearing roller	M2,5	17,25	Steel	Cylindrical shape Locknut for radial alignment
03560011	Insert with ball-bearing roller	M2,5	17,25	Steel	Domed shape Locknut for radial alignment



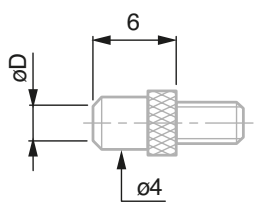
03560010

Inserts with flat measuring face

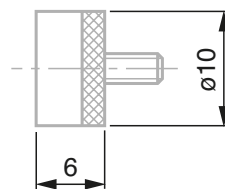
Article number	Designation	Fixing mm	Probe length mm	Diameter mm	Material
03560026	Insert with a flat measuring face	M2,5	L=5, L1=2,8	2	Steel
03560027	Insert with a flat measuring face	M2,5	L=10, L1=7,8	2	Steel
03560028	Insert with a flat measuring face	M2,5	L=15, L1=12,8	2	Steel
03560029	Insert with a flat measuring face	M2,5	L=20, L1=17,8	2	Steel
03510801	Insert with a flat measuring face	M2,5	6	2,5	Steel
03510802	Insert with a flat measuring face	M2,5	6	2,5	Tungsten carbide
03560022	Insert with a flat measuring face	M2,5	6	3,4	Steel
03560023	Insert with a flat measuring face	M2,5	6	3,4	Tungsten carbide
03560012	Insert with a flat measuring face	M2,5	5	5	Steel
03560013	Insert with a flat measuring face	M2,5	5	5	Tungsten carbide
03560014	Insert with a flat measuring face	M2,5	6	10	Steel
03560015	Insert with a flat measuring face	M2,5	6	10	Tungsten carbide
03560016	Insert with a flat measuring face	M2,5	3,6	20	Steel



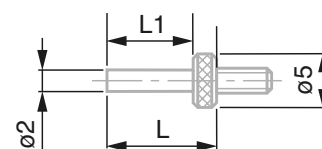
03560012



03510801



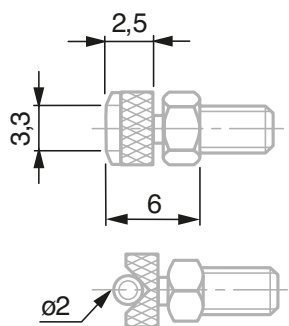
03560014



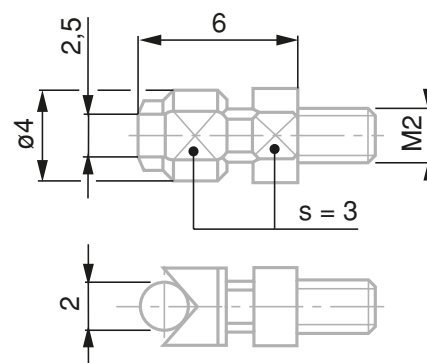
03560026

Cylindrical inserts

Article number	Designation	Fixing mm	Probe length mm	Diameter mm	Material	Particular characteristic(s)
03510502	Insert with cylindrical face	M2,5	6	Ø 2 x 3,3	Tungsten carbide	Lock nut for radial alignment
03510503	Insert with cylindrical face	M2	6	Ø 2 x 2,5	Tungsten carbide	Lock nut for radial alignment



03510502

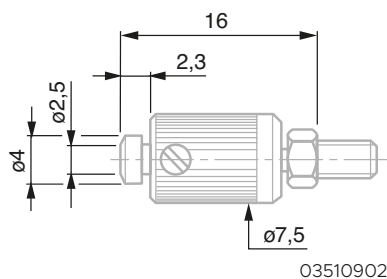


03510503

Inserts for dial gauges

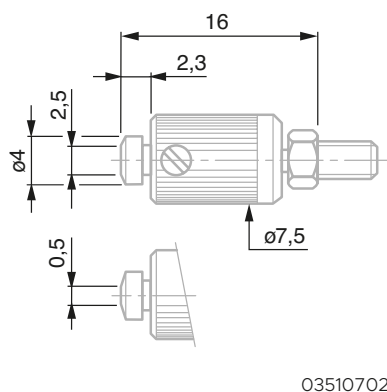
Insert with a flat measuring face and adjustable parallelism

Article number	Designation	Fixing mm	Probe length mm	Diameter mm	Material	Particular characteristic(s)
03510902	Insert with a flat measuring face	M2,5	16	4	Tungsten carbide	Flat face Locknut for radial alignment



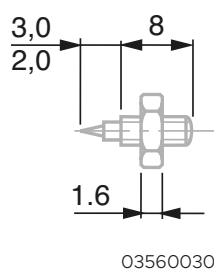
Narrow insert with adjustable parallelism

Article number	Designation	Fixing mm	Probe length mm	Diameter mm	Material	Particular characteristic(s)
03510702	Insert with adjustable parallelism	M2,5	16	4	Tungsten carbide	Narrow face Locknut for radial alignment



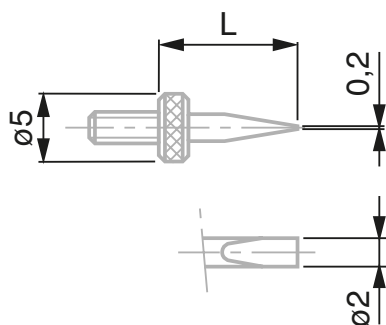
Needle insert

Article number	Designation	Fixing mm	Probe length mm	Material
03560030	Needle insert, steel, Ø 0,6 x 2,5 mm	M2,5	7	Steel

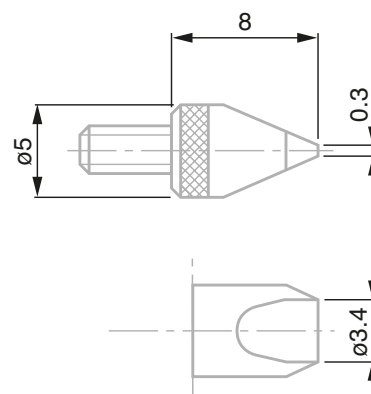


Inserts with knife blade shape

Article number	Designation	Fixing mm	Probe length mm	Diameter mm	Material	Particular characteristic(s)
03560031	Insert with knife blade face	M2,5	5	Ø 2 x 0,2	Steel	Locknut for radial alignment
03560032	Insert with knife blade face	M2,5	10	Ø 2 x 0,2	Steel	Locknut for radial alignment
03560033	Insert with knife blade face	M2,5	15	Ø 2 x 0,2	Steel	Locknut for radial alignment
03560034	Insert with knife blade face	M2,5	20	Ø 2 x 0,2	Steel	Locknut for radial alignment
03560024	Insert with knife blade face	M2,5	8	Ø 3,4 x 0,3	Steel	Locknut for radial alignment
03560025	Insert with knife blade face	M2,5	8	Ø 3,4 x 0,3	Tungsten carbide	Locknut for radial alignment



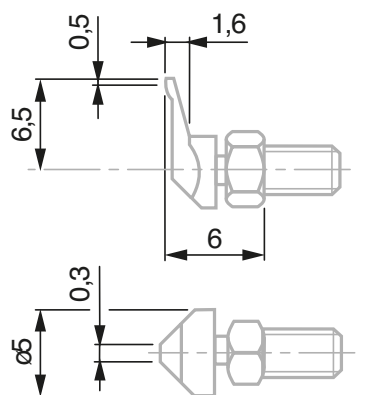
03560031



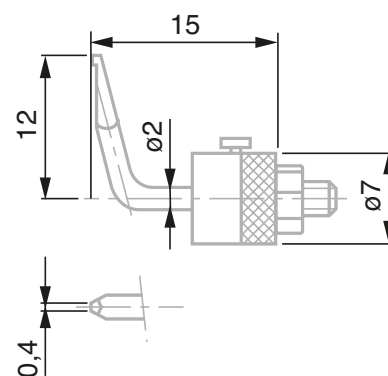
03560024

Pointed offset inserts

Article number	Designation	Fixing, mm	Material	Particular characteristic(s)
03510401	Insert with offset	M2,5	Steel	Pointed face Locknut for radial alignment
03560063	Insert with offset	M2,5	Steel	Pointed face Locknut for radial alignment



03510401

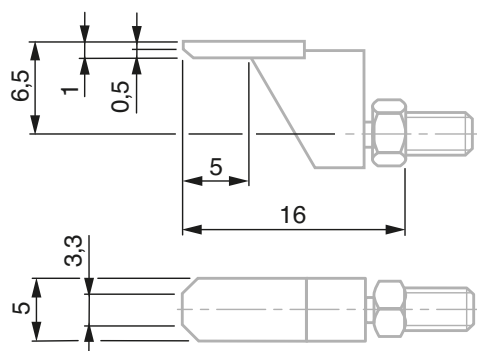


03560063

Inserts for dial gauges

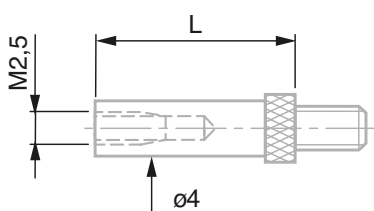
Narrow insert with offset

Article number	Designation	Fixing mm	Probe length mm	Material	Particular characteristic(s)
03510602	Insert with narrow and off-centre face	M2,5	16	Tungsten carbide	Lock nut for radial alignment

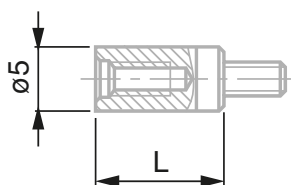


Extensions

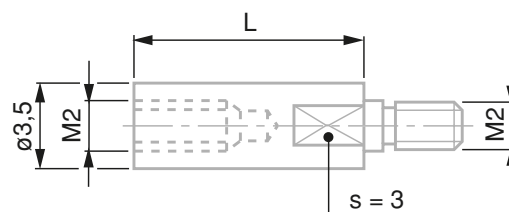
Article number	Designation	Fixing mm	Probe length mm
03540505	Extension	M2	10
03540506	Extension	M2	15
03540501	Extension	M2,5	10
03540502	Extension	M2,5	15
03540503	Extension	M2,5	20
03540504	Extension	M2,5	40
03560042	Extension	M2,5	10
03560043	Extension	M2,5	15
03560044	Extension	M2,5	20
03560045	Extension	M2,5	25
03560046	Extension	M2,5	30
03560047	Extension	M2,5	35
03560048	Extension	M2,5	40
03560049	Extension	M2,5	45
03560050	Extension	M2,5	50



03540501 to 03540504



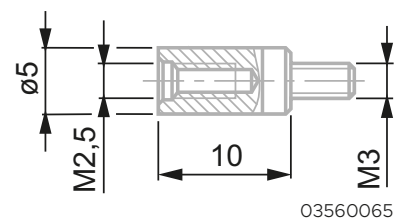
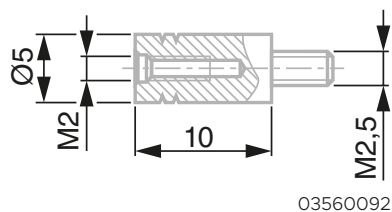
03560042 to 03560050



03540505 and 03540506

Adapters

Article number	Designation	Fixing mm	Probe length mm	Particular characteristic(s)
03560092	Adapter	M2,5	10	For M2 inserts
03560065	Adapter	M3	10	For M2,5 inserts



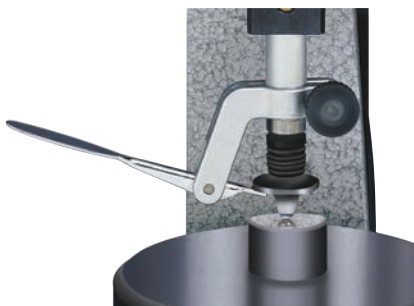
Accessories for dial gauges

Device for plunger retraction



01960005

Article number	Designation	Compatibility
03540104	Device for plunger retraction for dial gauge with stroke < 5 mm	For dial gauge with stroke < 5 mm
01961012	Device for plunger retraction for DIALTRONIC COMPACT dial gauge	For DIALTRONIC COMPACT dial gauge
01960005	Device for plunger retraction	
03560004	Device for plunger retraction for dial gauge with a Ø 40 or Ø 44,5 mm dial	For dial gauge with Ø 40 or Ø 44,5 mm dial
03560005	Device for plunger retraction for dial gauge with a Ø 58 or Ø 61,5 mm dial	For dial gauge with Ø 58 or Ø 61,5 mm dial
01960101	Device for plunger retraction for DIALTRONIC dial gauge	For DIALTRONIC dial gauge 12,5 mm
01960102	Device for plunger retraction for DIALTRONIC dial gauge	For DIALTRONIC dial gauge 25 mm



03540104



01961012



03560004 and 03560005



01960101



01960102



01960005

Mounting backs for DIALTRONIC dial gauges



01960100

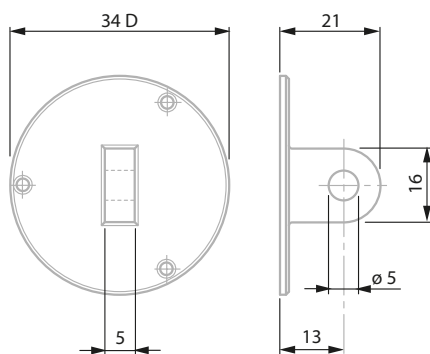
Article number	Designation	Compatibility	Particular characteristic(s)
01960100	Back with central lug for DIALTRONIC dial gauge	For DIALTRONIC dial gauges	Central lug

Mounting backs for analogue dial gauges



01462004

Article number	Designation	Diameter mm	Compatibility	Composed of	Particular characteristic(s)
01462004	Back with central lug for IP40 dial gauges with Ø 40 or Ø 44,5 mm dial	34	For IP40 dial gauges, Ø 40 or Ø 44,5 mm dial	Mounting back 3x M1,5 x 4 mm screw	Central lug
01462005	Back with central lug for IP40 dial gauges with Ø 58 or Ø 61,5 mm dial	46	For IP40 dial gauges, Ø 58 or Ø 61,5 mm dial	Mounting back 3x M2 x 4 mm screw	Central lug
01460020	Back with central lug for IP67 dial gauges with Ø 40 or Ø 44,5 mm dial	41	For IP67 dial gauges, Ø 40 or Ø 44,5 mm dial	Mounting back 3x M2 x 6 mm screw	Central lug
01460021	Back with central lug for IP67 dial gauges with Ø 58 or Ø 61,5 mm dial	55	For IP67 dial gauges, Ø 58 or Ø 61,5 mm dial	Mounting back 3x M3 x 5,5 mm screw	Central lug



01462004

Accessories for dial gauges

90° angular probe

90° angle probe. For the transmission of movements of the measuring plunger. Max. travel up to 10 mm. For dial gauges of 0,01 mm.



Article number	Designation	Compatibility	Measuring range, mm	Composed of
03560006	90° angular probe	For dial gauge with 0,01 mm resolution	≤ 10 mm	Probe Flat insert Ø 5 mm

