✓

EN ISO 463
Factory standard

0,01 mm

2,2 mm

Rotating dial.
Regular models with dial lock.

Full-metal case housing.
Fixing shank and plunger in hardened stainless steel.

High performance shock proof system in both directions

Adjustable tolerance markers.
Insert with M2,5 thread

3 mm dia. ball tip, already mounted.

Cardboard box

Identification number

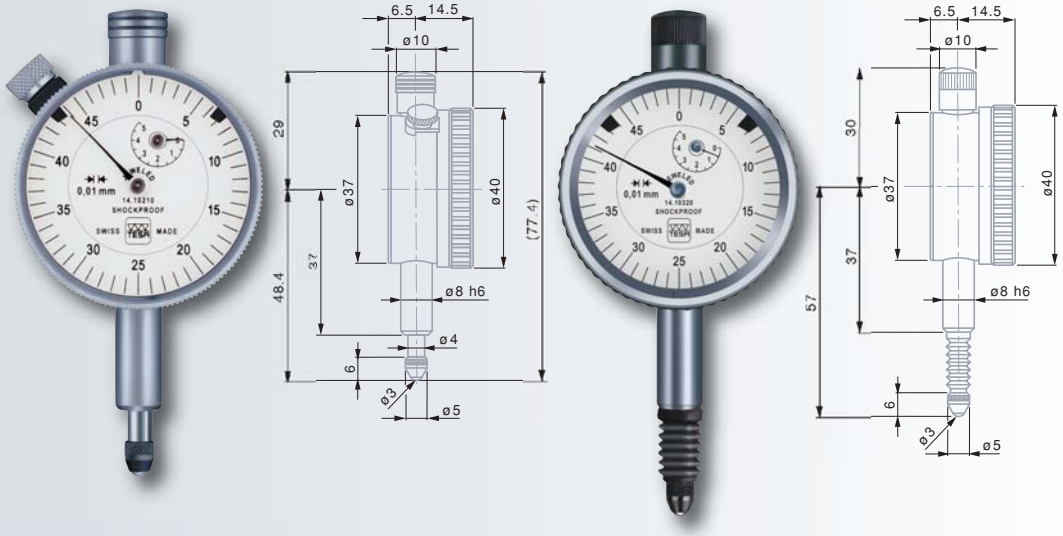
Inspection report with a declaration of conformity

TESA YR and MERCER
Precision Dial Gauges – TOP Quality

These **TOP Quality** precision dial gauges combine excellent metrological properties with extra-long life.

- Smooth, full-jewelled movement with rubies.
- Full-metal bezel and case housing.
- Shock proof mechanism effective in the two directions towards the plunger moves.
- Non-dazzling dial.
- Swiss Made.

TESA YR – TOP Quality
40 mm dial diameter, 0,01 mm reading



№	mm	mm	mm		mm		
TOP Quality line							
01410210	0,01	5	5,4	●	0,5	0 ÷ 25 ÷ 50	●
01410211	0,01	5	5,4	●	0,5	0 ÷ 25 ÷ 0	●
01410212	0,01	5	5,4	●	0,5	0 ÷ 25 ÷ 50	–
TOP Quality line IP54 protected against the penetration of liquids							
01410320	0,01	5	5,4	●	0,5	0 ÷ 25 ÷ 50	–
01410321	0,01	5	5,4	●	0,5	0 ÷ 25 ÷ 0	–

Permissible limits of a metrological characteristic (MPE/MPL)

		0,01 mm
Deviation span		12 µm
Deviation span within the local measuring span 0,10 mm		6 µm
Total deviation span		14 µm
Repeatability limit		3 µm
Max. hysteresis		3 µm
Measuring force	TOP Quality line	≤ 1,4 N
	TOP Quality line IP54	≤ 2 N

TESA YR and MERCER Dial Gauges – TOP Quality
40 mm dial diameter, 0,001 or 0,002 mm reading

✓ EN ISO 463 Factory standard

0,001 mm
0.002 mm

1,1 mm

Rotating dial. Regular models with dial lock

Full-metal case housing. Fixing shank and plunger in hardened stainless steel

High performance shock proof system in both directions

Adjustable tolerance markers Measuring insert with M2,5 thread.

3 mm dia. ball tip, already mounted.

Cardboard box

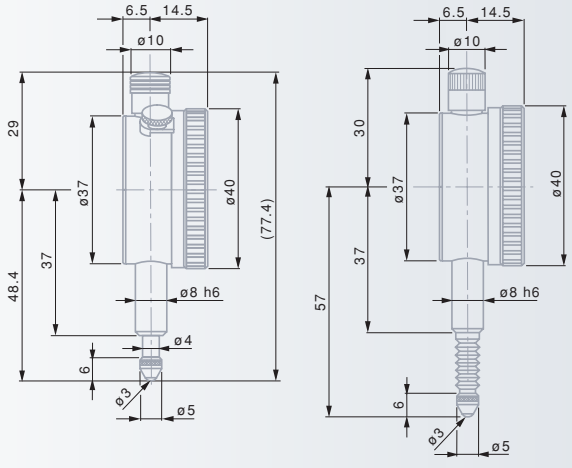
Identification number

Inspection report with a declaration of conformity

Nº		mm	mm	mm		mm	
TOP Quality line, with dial lock							
01410010		0,001	1	1,5	●	0,1	0 ÷ 50 ÷ 100
01410011		0,001	1	1,5	●	0,1	0 ÷ 50 ÷ 0
01416007	**195-1TQ**	0,002	3	3,3	●	0,2	0 ÷ 10 ÷ 0
TOP Quality line IP54 protected against the penetration of liquids, without dial lock							
01410120		0,001	1	1,5	●	0,1	0 ÷ 50 ÷ 100
01410121		0,001	1	1,5	●	0,1	0 ÷ 50 ÷ 0

Permissible limits of a metrological characteristic (MPE/MPL)

			0,002 mm	0,001 mm
	Deviation span		10 µm	4 µm
	Deviation span within the local measuring span 0,10 mm		6 µm	4 µm
	Total deviation span		12 µm	5 µm
	Repeatability limit		1,5 µm	1 µm
	Max. hysteresis		2 µm	1 µm
	Measuring force	TOP Quality line	≤ 1,4 N	≤ 1,7 N
		TOP Quality line IP54		≤ 2 N



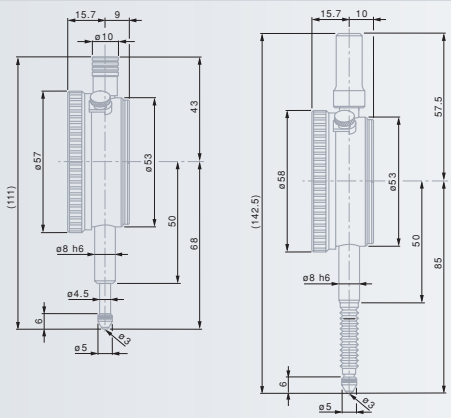
TESA YR and MERCER Dial Gauges – TOP Quality
57 or 58 mm dial diameter, 0,01 mm reading

- ✓
- EN ISO 463 Factory standard
- 0,01 mm
- 1,5 mm
- Rotating dial. Regular models with dial lock
- Full-metal case housing. Fixing shank and plunger in hardened stainless steel
- High performance shock proof system in both directions
- Adjustable tolerance markers Measuring insert with a M2,5 thread.
- 3 mm dia. ball tip, already mounted
- Cardboard box
- Identification number
- Inspection report with a declaration of conformity

№		mm	mm	mm		mm	
TOP Quality line, with dial lock							
01410610		0,01	10	10,5	●	1	0 ÷ 50 ÷ 100
01410611		0,01	10	10,5	●	1	0 ÷ 50 ÷ 0
01410612		0,01	10	10,5	●	1	0 ÷ 50 ÷ 100
TOP Quality line IP54 protected against the penetration of liquids, without dial lock							
01410720		0,01	10	10,5	●	1	0 ÷ 50 ÷ 100
01410721		0,01	10	10,5	●	1	0 ÷ 50 ÷ 0
TOP Quality line with restricted reading range							
01416029	**250SRc-1TQ**	0,01	±0,5	4	●	1	50 ÷ 0 ÷ 50

Permissible limits of a metrological characteristic (MPE/MPL)

		0,01 mm 1 mm	0,01 mm 10 mm
Deviation span		7 µm	15 µm
Deviation span within the local measuring span 0,10 mm		5 µm	8 µm
Total deviation span		9 µm	17 µm
Repeatability limit		3 µm	3 µm
Max. hysteresis		3 µm	3 µm
Measuring force	TOP Quality line	≤ 1,4 N	≤ 1,4 N
	TOP Quality line IP54		≤ 2,2 N

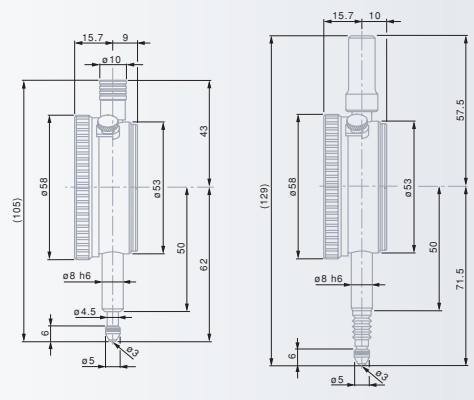


TESA YR and MERCER Dial Gauges – TOP Quality
57 or 58 mm dial diameter, 0,001 or 0,002 mm reading

№		mm	mm	mm		mm	
TOP Quality line, with dial lock							
01410410		0,001	1	3,3	●	0,1	0 ÷ 50 ÷ 100
01410411		0,001	1	3,3	●	0,1	0 ÷ 50 ÷ 0
TOP Quality line IP54 protected against the penetration of liquids, without dial lock							
01410520		0,001	1	3,3	●	0,1	0 ÷ 50 ÷ 100
01410521		0,001	1	3,3	●	0,1	0 ÷ 50 ÷ 0
TOP Quality line with restricted reading range							
01416030	**253SRc-1TQ**	0,002	±0,08	3	●	0,16	8 ÷ 0 ÷ 8
01416028	**SRc**	0,001	±0,04	3	●	0,08	40 ÷ 0 ÷ 40

Permissible limits of a metrological characteristic (MPE/MPL)

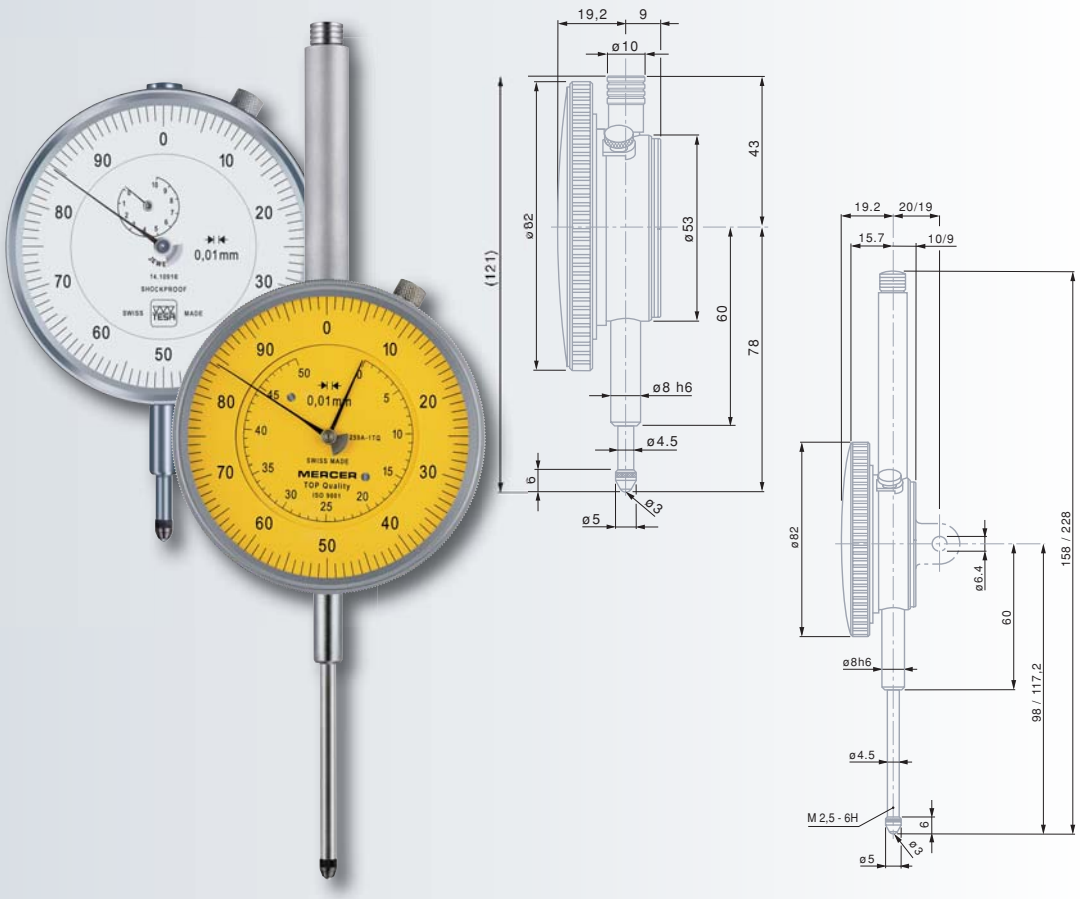
		0,002 mm	0,001 mm 1 mm	0,001 mm 0,08 mm
Deviation span		2 µm	4 µm	1,5 µm
Deviation span within the local measuring span 0,10 mm		2 µm	4 µm	1,5 µm
Total deviation span		4 µm	5 µm	4 µm
Repeatability limit		1 µm	1 µm	1 µm
Max. hysteresis		1 µm	1 µm	1 µm
Measuring force	TOP Quality line	≤ 1,5 N	≤ 1,7 N	≤ 1,5 N
	TOP Quality line IP54		≤ 2 N	



- ✓
- EN ISO 463 Factory standard
- 0,001 mm 0.002 mm
- 1,5 mm
- Rotating dial. Regular models with dial lock.
- Full-metal case housing. Fixing shank and plunger in hardened stainless steel
- High performance shock proof system in both directions
- Adjustable tolerance markers Measuring insert with M2,5 thread.
- 3 mm dia. ball tip, already mounted
- Cardboard box
- Identification number
- Inspection report with a declaration of conformity

TESA YR and MERCER Dial Gauges – TOP Quality
82 mm dial diameter, 0,01 mm reading

- ✓
- EN ISO 463 Factory standard
- 0,01 mm
- 2,3 mm
- Rotating dial, lockable.
- Full-metal case housing. Fixing shank and plunger in hardened stainless steel
- High performance shock proof system in both directions
- Adjustable tolerance markers Measuring insert with M2,5 thread.
- 3 mm dia. ball tip, already mounted
- Cardboard box
- Identification number
- Inspection report with a declaration of conformity

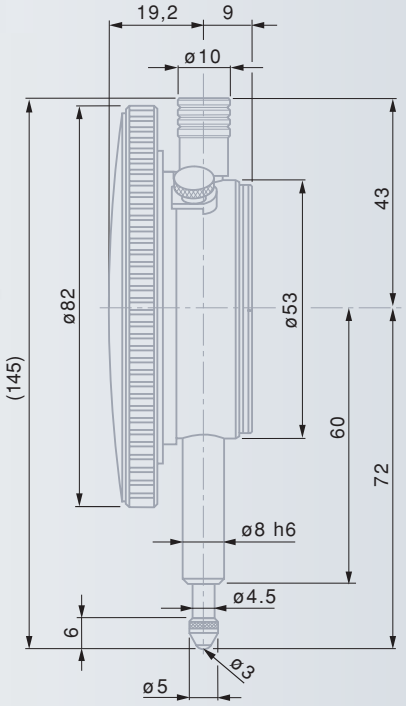


		mm	mm	mm		mm	
TOP Quality line, with dial lock							
01410910		0,01	10	10,5	●	0,1	0 ÷ 50 ÷ 100
01410911		0,01	10	10,5	●	0,1	0 ÷ 50 ÷ 0
TOP Quality line with long range and dial lock							
01416040	**259-1TQ**	0,01	30	30,5	●	0,1	0 ÷ 50 ÷ 100
01416041	**259A-1TQ**	0,01	50	50,5	●	0,1	0 ÷ 50 ÷ 100

Permissible limits of a metrological characteristic (MPE/MPL)

	10 mm	30 mm	50 mm
Deviation span	15 µm	20 µm	25 µm
Deviation span within the local measuring span 0,10 mm	8 µm	20 µm	25 µm
Total deviation span	17 µm	25 µm	30 µm
Repeatability limit	3 µm	3 µm	3 µm
Max. hysteresis	3 µm	5 µm	5 µm
Measuring force	≤ 1,4 N	≤ 2,2 N	≤ 2,5 N

TESA YR Dial Gauges – TOP Quality
82 mm dial diameter, 0,001 mm reading



✓
EN ISO 463 Factory standard
0,001 mm
2,3 mm
Rotating dial, lockable.
Full-metal case housing. Fixing shank and plunger in hardened stainless steel
High performance shock proof system in both directions
Adjustable tolerance markers Measuring insert with a M2,5 thread.
3 mm dia. ball tip, already mounted
Cardboard box
Identification number
Inspection report with a declaration of conformity

		mm	mm	mm		mm	
TOP Quality line, with dial lock							
01410810		0,001	1	3,3	●	0,1	0 ÷ 50 ÷ 100
01410811		0,001	1	3,3	●	0,1	0 ÷ 50 ÷ 0

Permissible limits of a metrological characteristic (MPE/MPL)

	0,001 mm
Deviation span	4 µm
Deviation span within the local measuring span 0,10 mm	4 µm
Total deviation span	5 µm
Repeatability limit	1 µm
Max. hysteresis	1 µm
Measuring force	≤ 1,7 N