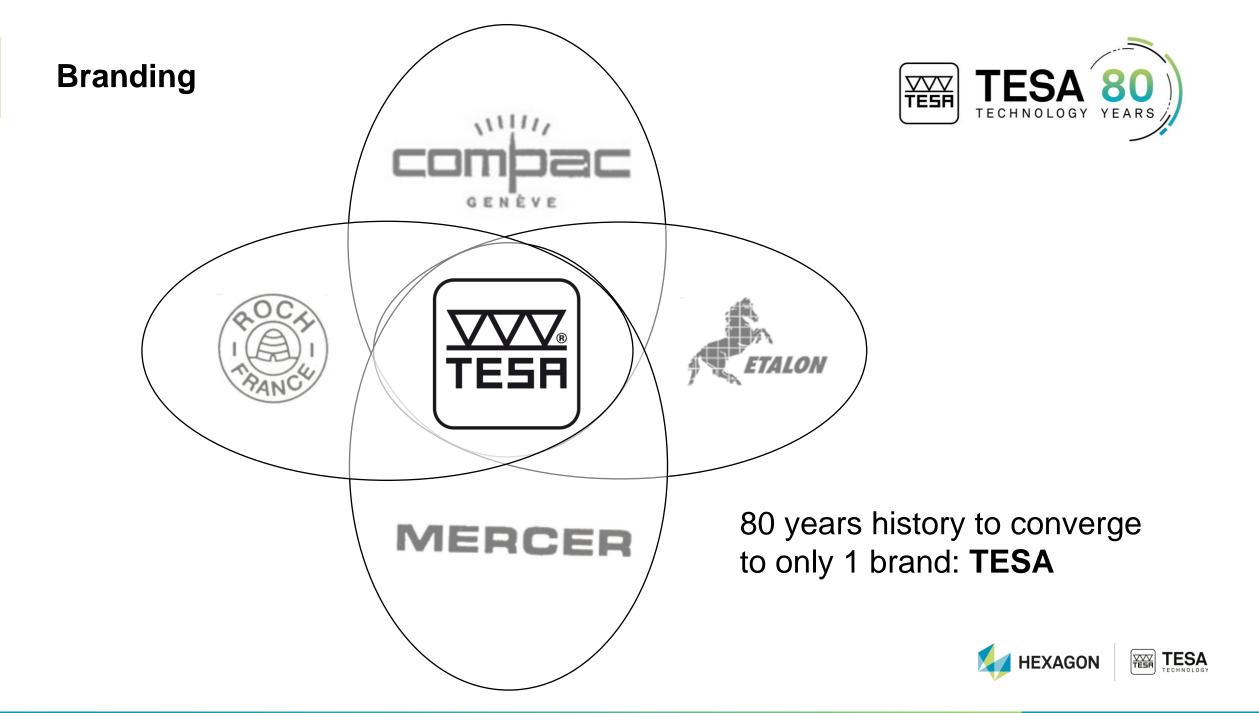


### Contents

- Branding
- Present new range
- Applications
- Packaging
- Accessories
- Specifications

## Branding



# New range

#### New range: overview

#### Resolution **0.1 mm**







### Resolution 0.002 mm



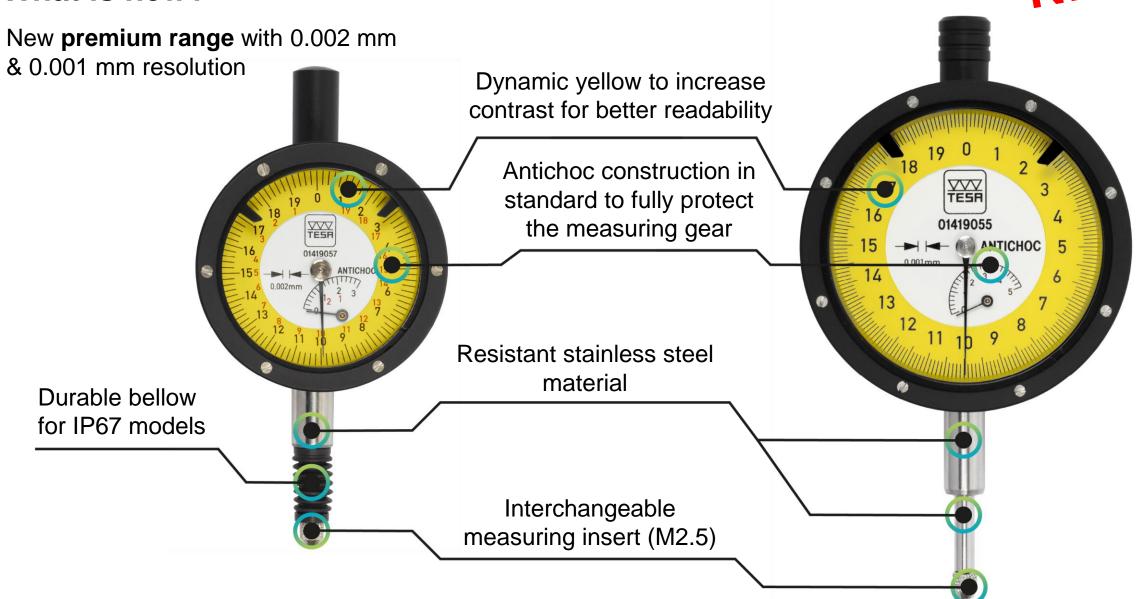
#### Resolution 0.001 mm







#### What is new?



#### What is new?





Small size, essential for limited access applications

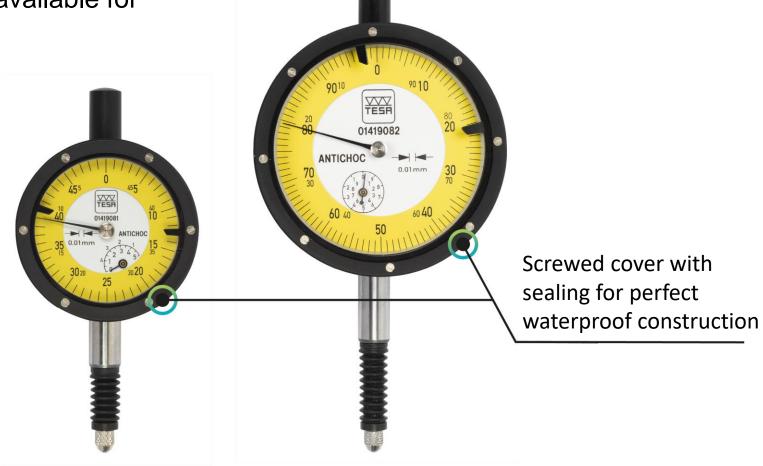




#### What is new?

IP67 protection, now also available for

0.01mm resolution



IP67 protection level is ideal for environments with humidity, dust or oil.



NEW



#### The range at a glance

Ø Dial			Resolution / characteristics																	
(mm)	Model		characteristics				characteristics characteristics						characteristics							
	Modet	0.1 mm	Course (mm)	Dial	IP level	0.01 mm	Course (mm)	Dial	Antichoc	IP level	0.002 mm	Course (mm)	Dial	Antichoc	IP level	0.001 mm	Course (mm)	Dial	Antichoc	IP level
Ø28	Compact			1		01419080	3,5	0 ÷ 25 ÷ 50	D -	40			/					/		
ı	Standard	0141760500	10	$0 \div 5 \div 10$	40	01419047	5	$0 \div 25 \div 50$	0	40	01419056	3	$0 \div 10 \div 20$	•	40	01419053	1	$0 \div 5 \div 10$	•	40
Ø40	Stariuaru					01419081	5	$0 \div 25 \div 50$	<b>)</b>	67	01419057	3	$0 \div 10 \div 20$	•	67			/		
1	back plunger			/		0141760566	3	$0 \div 25 \div 50$	J -	40			/					/		
	Standard	0141760501	10	$0 \div 5 \div 10$		01419048	10	$0 \div 50 \div 10$	0	40	01419058	5	$0 \div 10 \div 20$	•	40	01419054	1	$0 \div 5 \div 10$	•	40
Ø58	Staridard					01419082	10	$0 \div 50 \div 10$	0	67						01419055	5	$0 \div 10 \div 20$	•	40
<b>2000</b>	Long strokes	0141760503	30	$0 \div 5 \div 10$	40	0141760651	30	$0 \div 50 \div 10$	О -	40			/					,		
	Long Strokes			1		0141760661	50	$0 \div 25 \div 50$	O -	40			/					/		
Ø62	High D			/				/					/			01419051	0.1	50 ÷ 0 ÷ 50	, –	40
W62	High P			/												01419052	0.1	$0 \div 10 \div 20$		54
4																				





# Application Application

Application

Application

Application

Application

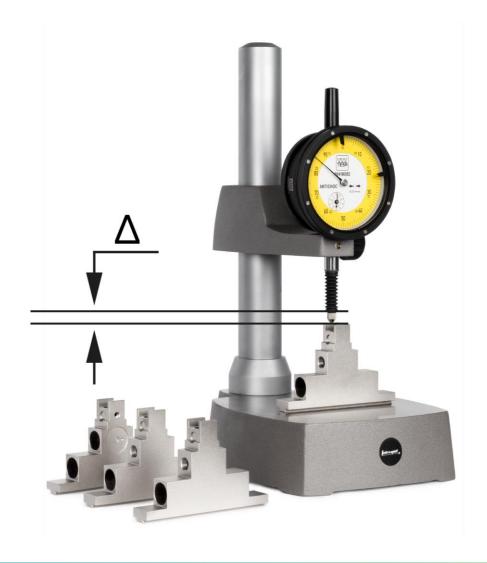
Application

Application

Application

Application

Parts measurements comparing to a reference

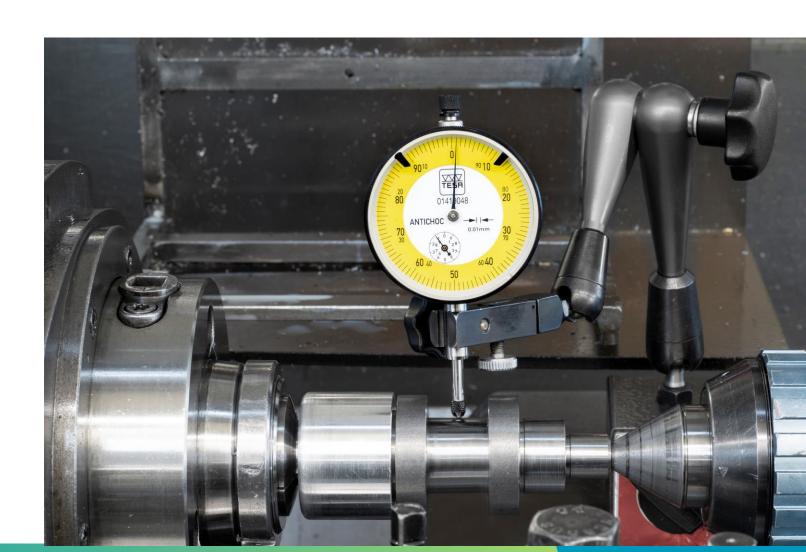






Run-out measurement





Parrallelism control







Bores measurement







# Packaging

#### **Packaging**







#### Paper sleeve and box

Nota: TESA case available as accessories





### Accessories Accessories

Accessories Accessories

Accessories Accessories

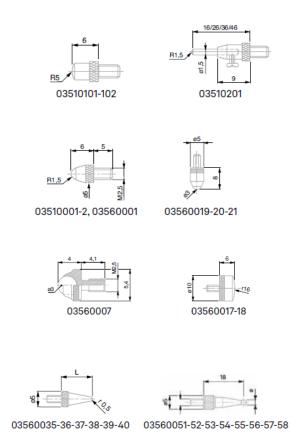
Accessories Accessories

Accessories Accessories

#### **Hemispherical inserts**



Item no.	Measuring face	Key length	Material
	[mm]	[mm]	
03510001	R 1,5	5	Steel
03510002	R 1,5	5	Hard metal
03510101	R5	6	Steel
03510102	R5	6	Hard metal
03510201	R 1,5	16/26/36/46 (interchangeable)	Steel
03560001	R 1,5	5	Sapphire
03560007	R 1,5	4	Hard metal
03560017	R 16	6	Steel
03560018	R 16	6	Hard metal
03560019	R 1,5	8	Steel
03560020	R 1,5	8	Hard metal
03560021	R 1,5	8	Ruby
03560035	R 0,5	5	Steel
03560036	R 0,5	10	Steel
03560037	R 0,5	15	Steel
03560038	R 0,5	20	Steel
03560039	R 0,5	30	Steel
03560040	R 0,5	40	Steel
03560051	D1	18	Hard metal
03560052	D 2	18	Hard metal
03560053	D3	18	Hard metal
03560054	D 4	18	Hard metal
03560055	D5	18	Hard metal
03560056	D 6	18	Hard metal
03560057	D7	18	Hard metal
03560058	D 8	18	Hard metal



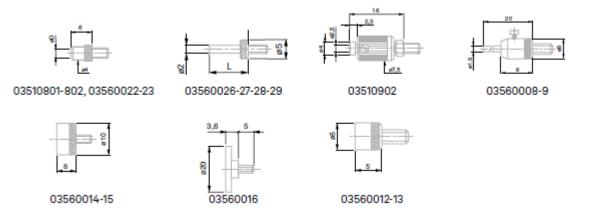




#### Inserts with a flat measuring face



Part number	Diameter	Probe length	Fixing	Material	Particular characteristics
Humber	mm	mm	mm		
03510902	4	16	M2,5	Carbide	Adjustable parallelism
03560008	1,5	20	M2,5	Steel	Interchangeable pin
03560009	1,5	20	M2,5	Carbide	Interchangeable pin
03510801	2,5	6		Steel	
03510802	2,5	6		Carbide	
03560022	3,4	6		Steel	
03560023	3,4	6		Carbide	
03560026		2,8		Steel	
03560027		7,8		Steel	
03560028		12,8		Steel	
03560029		17,8		Steel	
03560012	5	5		Steel	
03560013	5	5		Carbide	
03560014	10	6		Steel	
03560015	10	6		Carbide	
03560016	20	3,6		Steel	







#### **Magnetic supports**





support







More details on website





#### **Measuring supports + table**



Compact version



Ground table surface



Ground table surface + fine adjustment



Granite grade 00 table

More details on website





#### **TESA** case

Ø	TESA Article	Compatib	le case
Ø		063154	064300
40	01419047		•
58	01419048	•	
44.5	01419053		•
61.5	01419054	•	
61.5	01419055	•	
44.5	01419056		•
44.5	01419057		•
61.5	01419058	•	
44.5	01419081		•
61.5	01419082	•	
40	0141760500		•
58	0141760501	•	
58	0141760503	•	
58	0141760651	•	









### Specifications Specifications

Specifications Specifications

Specifications Specifications

Specifications Specifications

Specifications Specifications

#### **General description** Adjustable tolerance indicators Dial reading Dial Ø 01419048 Resolution ANTICHOC 0.01mm Revolution counter Ø8 h6 for fixation Below for IP67 protection (according models) Measuring range





#### **New range: resolution 0.1mm**



Ø	Tesa	Measuring range	Dial reading	Stroke per revolution	IP	Antichoc	Measuring strength
(mm)	Article						(N)
40	0141760500	10mm	0-5-10	10 mm	40	No	1.0 +/- 20%
58	0141760501	10mm	0-5-10	10 mm	40	No	0.7 +/- 20%
58	0141760503	30mm	0-5-10	10 mm	40	No	0.8 +/- 20%





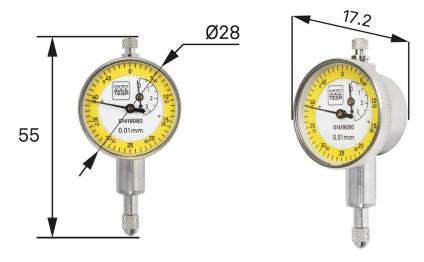
Indication error for the measuring range	Indication error for 1/10 revolution	Indication error for 1/2 revolution	Indication error for 1 revolution- when applicable	Repeatability of the indication error	Hysteresis of the indication error
MPE tot (μm)	MPE 1/10 (μm)	MPE 1/2 (μm)	MPE 1 (μm)	MPE <sub>R</sub> (μm)	MPE <sub>н</sub> (μm)
50	30	40	45	15	15





#### New range: resolution 0.01mm, new compact version





Ø	Tesa	Measuring range	Dial reading	Stroke per revolution	IP	Antichoc	Measuring strength
(mm)	Article						(N)
28	01419080	3.5 mm	0-25-50	0.5 mm	40	No	0.8 +/- 20%

Indication error for the measuring range	Indication error for 1/10 revolution	Indication error for 1/2 revolution	Indication error for 1 revolution- when applicable	Repeatability of the indication error	Hysteresis of the indication error
MPE tot	MPE 1/10	MPE 1/2	MPE 1	MPE <sub>R</sub>	MPE <sub>H</sub>
(μm)	(μm)	(μm)	(μm)	(μm)	(μm)
17	5	9	10	3	3





#### New range: resolution 0.01mm, stroke 5mm & 10mm





Ø	Tesa	Measuring range	Dial reading	Stroke per revolution	IP	Antichoc	Measuring strength
(mm)	Article						(N)
40	01419047	5 mm	0-25-50	0.5 mm	40	Yes	0.7 +/-10%
44.5	01419081	5 mm	0-25-50	0.5 mm	67	Yes	0.9 +/- 20%
58	01419048	10 mm	0-50-100	1 mm	40	Yes <b>NEW</b>	0.7 +/- 20%
61.5	01419082	10 mm	0-50-100	1 mm	67	Yes	1.3 +/- 20%

Indication error for the measuring range	Indication error for 1/10 revolution	Indication error for 1/2 revolution	Indication error for 1 revolution- when applicable	Repeatability of the indication error	Hysteresis of the indication error
MPE tot	MPE 1/10	MPE 1/2	MPE 1	MPE <sub>R</sub>	MPE <sub>H</sub>
(μm)	(μm)	(μm)	(μm)	(μm)	(μm)
12 (5mm) / 15 (10mm)	5	9	10	3	3





#### New range: resolution 0.01mm, long stroke 30mm & 50mm



Ø	Tesa	Measuring range	Dial reading	Stroke per revolution	IP	Antichoc	Measuring strength
(mm)	Article						(N)
58	0141760651	30 mm	0-50-100	1 mm	40	Yes	0.8 +/- 20%
58	0141760661	50 mm	0-50-100	1 mm	40	Yes	1+/-20%

	Indication error for the measuring range  MPE tot	Indication error for 1/10 revolution MPE 1/10	Indication error for 1/2 revolution MPE 1/2	Indication error for 1 revolution- when applicable MPE 1	Repeatability of the indication error <b>MPE</b> <sub>R</sub>	Hysteresis of the indication error <b>MPE<sub>H</sub></b>
	(μm)	(μm)	(μm)	(μm)	(μm)	(μm)
141760651	20	5	10	15	3	5
141760661	25	5	10	15	3	-





#### New range: resolution 0.01mm, back plunger construction





Ø	Tesa	Measuring range	Dial reading	Stroke per revolution	IP	Antichoc	Measuring strength
(mm)	Article						(N)
40	0141760566	3 mm	0-25-50	0.5 mm	40	Yes	1.5 +/- 20%

Indication error for the measuring range	Indication error for 1/10 revolution	Indication error for 1/2 revolution	Indication error for 1 revolution- when applicable	Repeatability of the indication error	Hysteresis of the indication error
MPE tot	MPE 1/10	MPE 1/2	MPE 1	MPE <sub>R</sub>	MPE <sub>H</sub>
(μm)	(μm)	(μm)	(μm)	(μm)	(μm)
12	5	8	9	3	5





#### **New range: resolution 0.002mm**





Ø	Tesa	Measuring range	Dial reading	Stroke per revolution	IP	Antichoc	Measuring strength
(mm)	Article						(N)
44.5	01419056	3mm	0-10-20	0.2 mm	40	Yes	1,1 +/- 20%
44.5	01419057	3mm	0-10-20	0.2 mm	67	Yes	1,3 +/- 20%
61.5	01419058	5mm	0-10-20	0.2 mm	40	Yes	1,4 +/- 20%
	(mm) 44.5 44.5	(mm) Article 44.5 01419056 44.5 01419057	(mm) Article  44.5 01419056 3mm  44.5 01419057 3mm	range (mm) Article  44.5 01419056 3mm 0-10-20  44.5 01419057 3mm 0-10-20	range revolution  (mm) Article  44.5 01419056 3mm 0-10-20 0.2 mm  44.5 01419057 3mm 0-10-20 0.2 mm	range         revolution           (mm)         Article           44.5         01419056         3mm         0-10-20         0.2 mm         40           44.5         01419057         3mm         0-10-20         0.2 mm         67	range         revolution           (mm)         Article           44.5         01419056         3mm         0-10-20         0.2 mm         40         Yes           44.5         01419057         3mm         0-10-20         0.2 mm         67         Yes





Indication error for the measuring range	Indication error for 1/10 revolution	Indication error for 1/2 revolution	Indication error for 1 revolution- when applicable	Repeatability of the indication error	Hysteresis of the indication error
MPE tot	MPE 1/10	MPE 1/2	MPE 1	MPE <sub>R</sub>	MPE <sub>H</sub>
(μm)	(μm)	(μm)	(μm)	(μm)	(μm)
7 (3mm) / 10 (5mm)	3	4	5	0.5	3





#### **New range: resolution 0.001mm**



Ø	Tesa	Measuring range	Dial reading	Stroke per revolution	IP	Antichoc	Measuring strength
(mm)	Article						(N)
44.5	01419053	1mm	0-5-10	0.2 mm	40	Yes	1 +/- 20%
61.5	01419054	1mm	0-10-20	0.2 mm	40	Yes	1.4 +/- 20%
61.5	01419055	5mm	0-10-20	0.2 mm	40	Yes	1.4 +/- 20%



Indication error for the measuring range	Indication error for 1/10 revolution	Indication error for 1/2 revolution	Indication error for 1 revolution- when applicable	Repeatability of the indication error	Hysteresis of the indication error
MPE tot (μm)	MPE 1/10 (μm)	MPE 1/2 (μm)	MPE 1 (μm)	MPE <sub>R</sub> (μm)	MPE <sub>н</sub> (μm)
5 (1mm) / 10 (5mm)	2	3	4	0.5	3





#### New range: resolution 0.001mm, High Precision



Ø	Tesa	Measuring range	Dial reading	Stroke per revolution	IP	Antichoc	Measuring strength
(mm)	Article						(N)
62	01419051	0.1mm	50-0-50	-	40	Yes	1 +/- 20%
62	01419052	0.1mm	50-0-50	-	54	Yes	1.4 +/- 20%



Indication error for the measuring range	Indication error for 1/10 revolution	Indication error for 1/2 revolution	Indication error for 1 revolution- when applicable	Repeatability of the indication error	Hysteresis of the indication error
MPE tot (μm)	MPE 1/10 (μm)	MPE 1/2 (μm)	MPE 1 (μm)	MPE <sub>R</sub> (μm)	MPE <sub>н</sub> (μm)
(μπ)	(µпі)	(μπ)	(μπ)	(μπ)	(μπ)
1	1.2	0.5	0.7	0.5	-





### **THANK YOU**



