

Calipers

For everyday applications

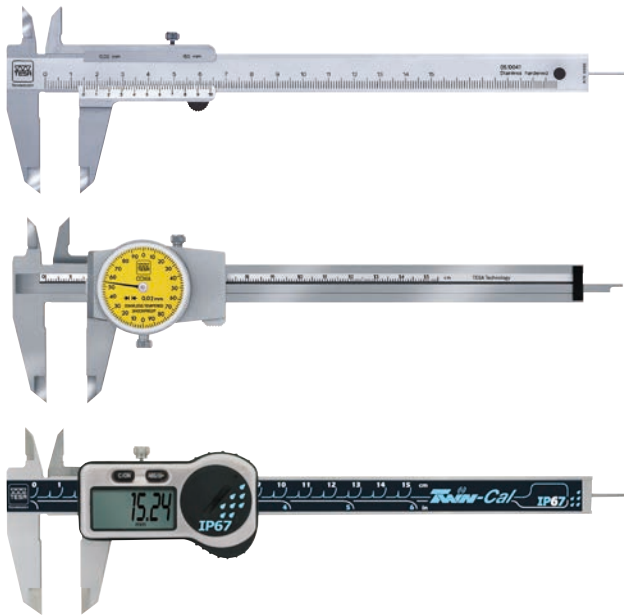


The essential instrument

Calipers are the most popular measuring instruments used worldwide. Owing to their simple construction, ease of handling and secure operation, they are highly appreciated by all kinds of users.

With its wide variety of models, TESA offers everyone the opportunity to find the right instrument to meet all their metrological needs. Dial, digital or vernier? With or without data transmission capabilities? For which application types? These are typical requests that the full range of TESA calipers satisfies by offering products that meet the daily needs of most users.

Universal calipers



Available versions: vernier, dial, digital

Workshop calipers



Available versions: vernier, digital

Depth calipers



Available versions: vernier, digital

Special calipers



Available versions: vernier, digital

The security of a quality product

Since their development phase, TESA products are subject to strict internal standards aligned with the most restrictive national standards. Thanks to this close monitoring, all TESA instruments meet the quality requirements that we strive to keep as sharp as possible.

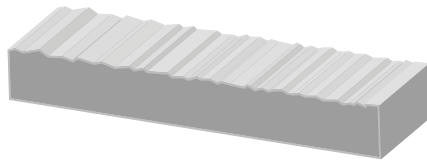


Smooth operation of the slider

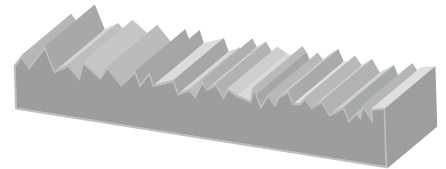
The beam of each instrument is specially lapped, in order to obtain a better than average sliding quality when compared to other instruments available on the market. Therefore, the flawless guide of the slider on the beam ensures a silky-smooth operation allowing more precise positioning whilst preventing the measuring jaws from tilting.



High quality movement of the slider on the beam for an optimum user comfort.



Lapped TESA beam



Ground beam



Comfortable handling

Such instruments are generally used several times a day. Therefore, user comfort is definitely an important factor! Most of our instruments have an ergonomic grip for ease of use.



The handling, display, buttons, slider, have been specially designed to allow a pleasant and reliable measurement.



A robust construction

All models incorporate industrially accepted materials perfectly suited to the production of traditional components. Since these instruments are usually used frequently, it is essential that their resistance is guaranteed for long term use. A judicious choice of material combined with appropriate thermal treatments, ensures high resistance to abrasion and corrosion.

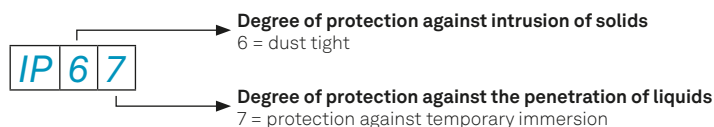


Workshop use requires stable components in order to guarantee long-term reliability of the instrument.

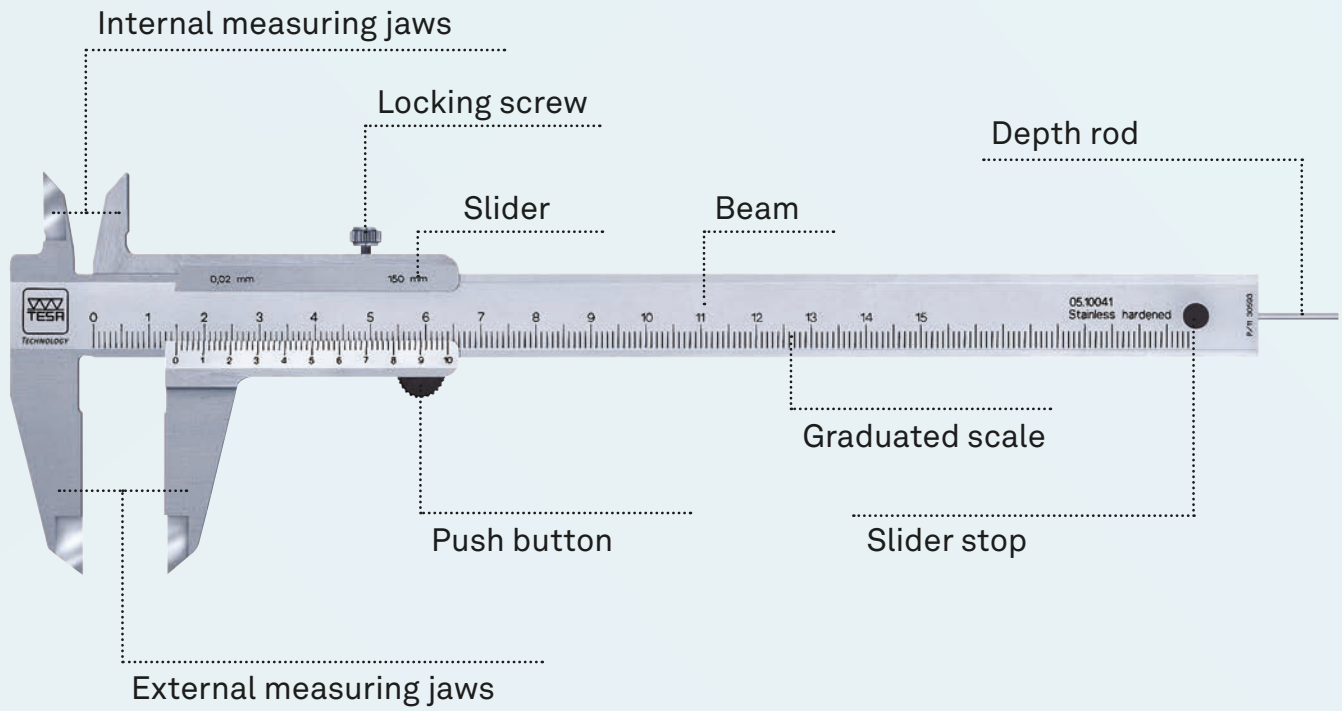


Stands up to the challenge

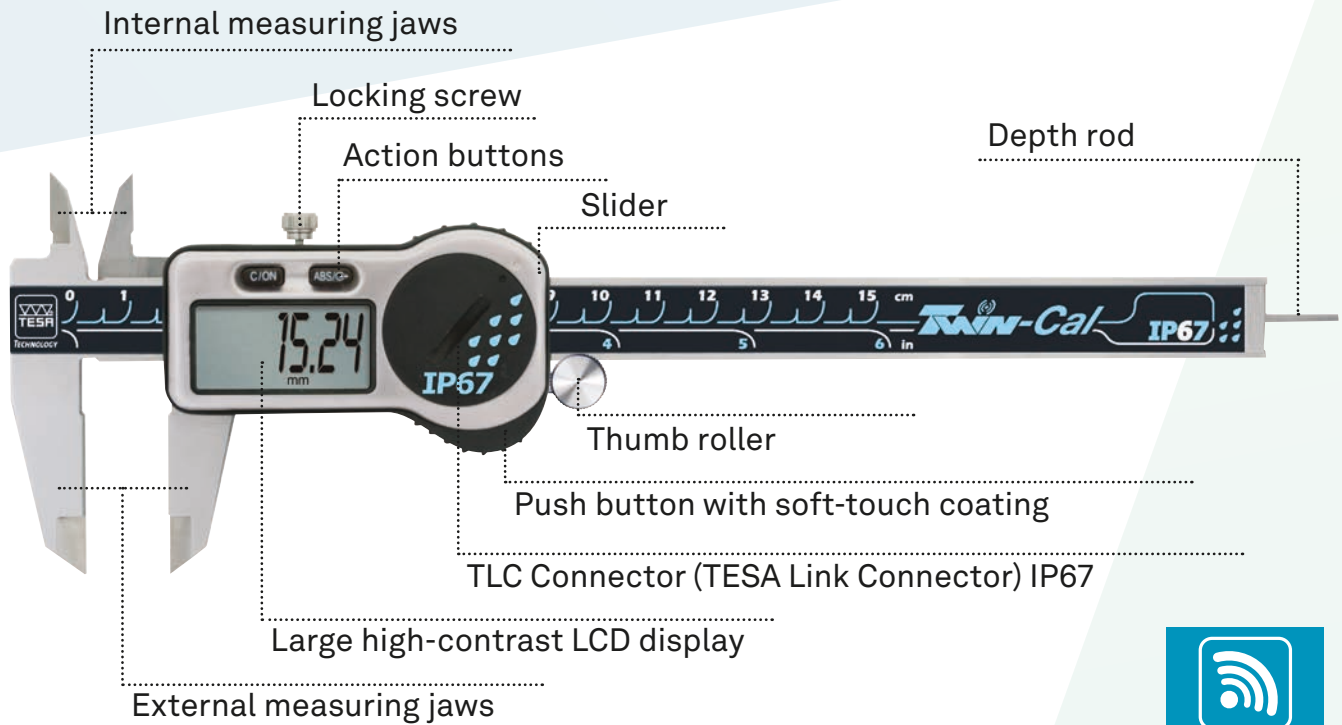
In harsh environments such as workshops, the instruments are often subject to all kinds of substances (oil, water, ...). Such conditions are not optimal for instruments containing electronic components. This is the reason why some of the digital models in the range have been designed with a high degree of protection (IP67) to guarantee the longevity of the instrument despite their exposure to various projections and intense solicitations.



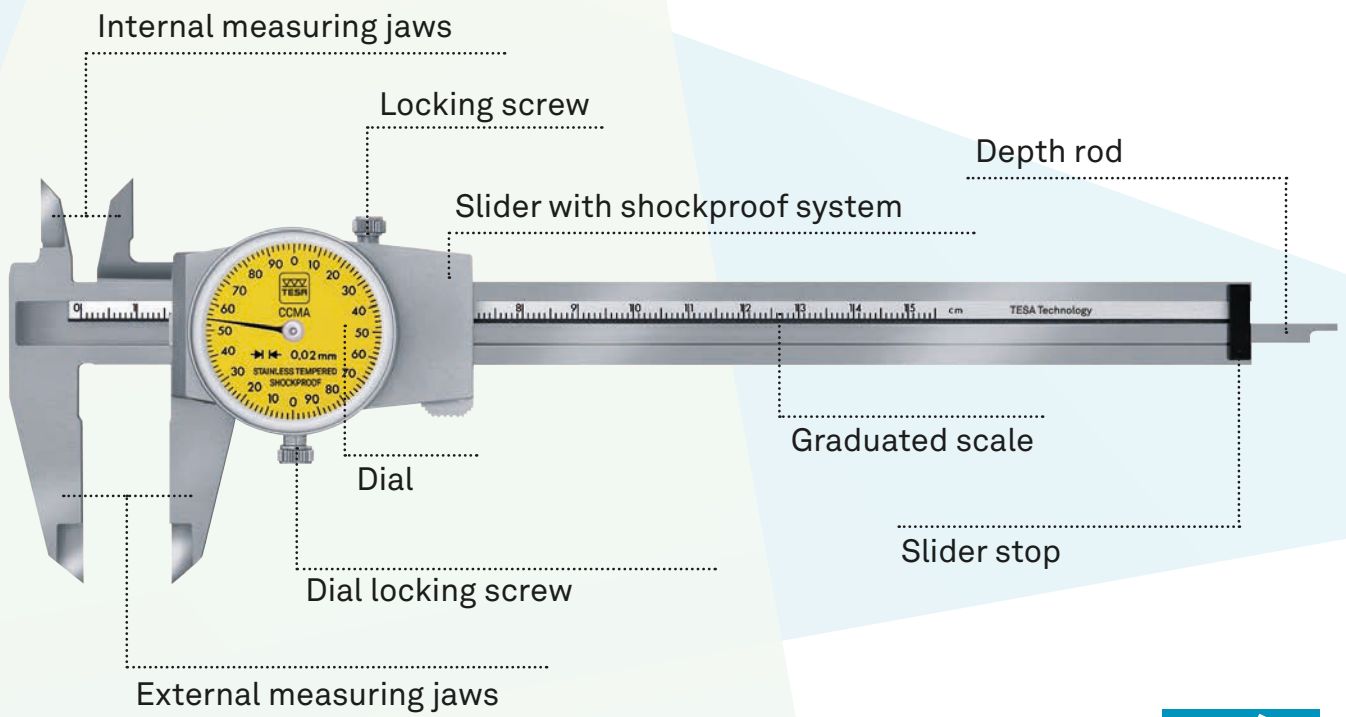
Vernier caliper



Digital caliper

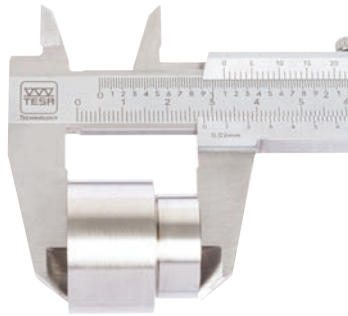


Dial caliper

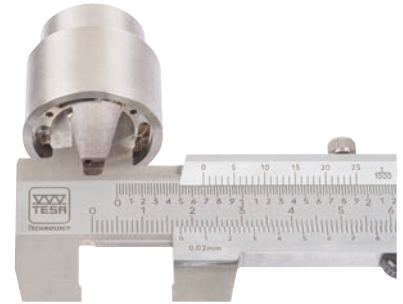


Measurement examples

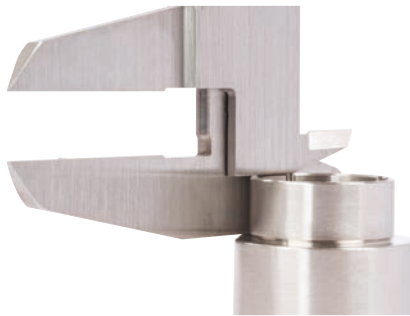
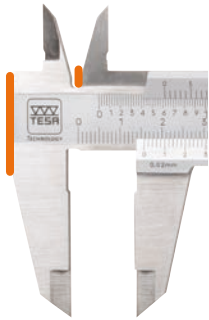
Universal calipers



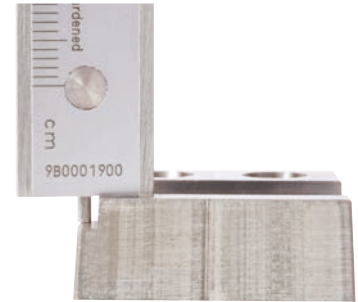
External measurement



Internal measurement

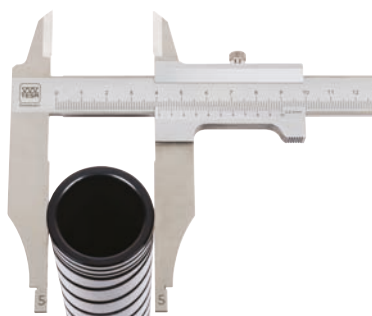


Step measurement



Depth measurement

Workshop calipers



External measurement

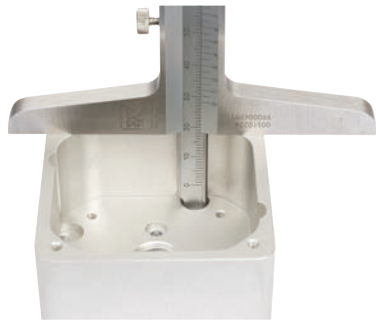
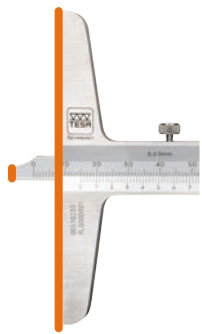


Internal measurement



External measurement

Depth calipers



Measurement with short cut measuring face



Measurement with fixed hook



Measurement with tip

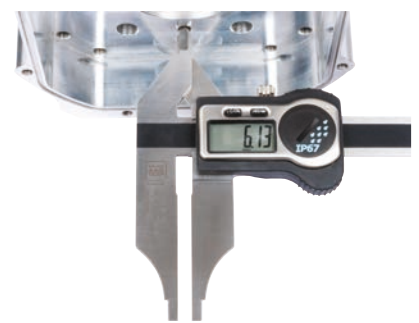


Measurement with rotary stop plate

Special calipers



Groove measurement



Internal measurement



Measurement with depth rod

Data management



With or without cable

Some of the digital calipers can be connected to a computer via the TLC (TESA Link Connector) on the front of the instrument. The purpose of this connection is to transmit the measured values to a software program for further processing. This connection can be made via cable or wireless.

Various output connector types are available. For more information, see the chapter on accessories.



Retrieve data with ease

The digital calipers, as well as most digital TESA instruments are compatible with the [free TESA DATA-VIEWER software](#), allowing a quick and easy handling of all measurement data in order to export the results to a data processing software or automatically create files in known formats such as *.xls, *.csv, or *.txt.

The software can be downloaded free of charge from the [TESAtechnology.com](https://www.tesa-technology.com) website.

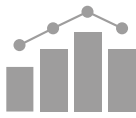




Fill out a report template in real time

With **TESA DATA-DIRECT** software, it is possible to measure one or more mechanical parts and to automatically receive formatted data in a report template previously prepared (Excel for example). Once a measurement has been recorded, the report is directly accessible.

Slightly more advanced than the TESA DATA-VIEWER software, this software allows the programmed reception of data in a continuous way (data pooling). It also allows to automatically manage the cells subject to data reception (cell management).



The quick and easy statistical software

The SPC (Statistical Process Control) **TESA STAT-EXPRESS** software is an easy way to develop measurement programs from which all important statistical characteristics can be calculated in real time. Quick to learn, it manages also automatically the measuring reports.



Compatible with



For demanding statistics

For users with more extensive needs, **Q-DAS** software will be able to meet the most specific requirements:

- Control and traceability
- Automated data recovery
- Setting up dashboards
- Quality management
- Optimization of production processes
- Supplier quality monitoring

Maximum permissible error

















| Measured length [mm] | | Dial [μm] | Vernier [μm] | | | |
|-------------------------|-------------------|--------------------|-----------------|---------|----------|---------|
| from | to (including) | All resolutions | Universal | | Workshop | |
| | | | 0,02 mm | 0,05 mm | 0,02 mm | 0,05 mm |
| 0 | 10 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 10 | 20 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 20 | 30 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 30 | 40 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 40 | 50 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 50 | 60 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 60 | 70 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 70 | 80 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 80 | 100 | ±20 | ±30 | ±50 | ±30 | ±50 |
| 100 | 150 | ±30 | ±30 | ±50 | ±30 | ±50 |
| 150 | 200 | ±30 | ±30 | ±50 | ±30 | ±50 |
| 200 | 250 | ±30 | ±40 | ±50 | ±30 | ±50 |
| 250 | 300 | ±30 | ±40 | ±50 | ±40 | ±50 |
| 300 | 400 | – | – | – | ±40 | ±60 |
| 400 | 500 | – | – | – | ±50 | ±70 |
| 500 | 600 | – | – | – | – | – |
| 600 | 1000 | – | – | – | – | – |

All the values in this table are valid for measurements carried out without reversal of the measuring force and with a fixed zero. For all other types of measurements (e.g. using the internal jaws) and those carried out with the depth foot, the values in the table increase by 20 μm.



| Vernier [μm] | | | Digital [μm] | | | |
|-----------------|------------------|------------------|------------------|----------------------|---------------------|------------------|
| | Depth 0,02 mm | Depth 0,05 mm | For grooves | Universal 0,01 mm | Workshop 0,01 mm | Depth 0,01 mm |
| | ±30 | ±50 | See product page | ±20 | ±30 | ±20 |
| | ±30 | ±50 | | ±20 | ±30 | ±20 |
| | ±30 | ±50 | | ±20 | ±30 | ±20 |
| | ±30 | ±50 | | ±20 | ±30 | ±20 |
| | ±30 | ±50 | | ±20 | ±30 | ±20 |
| | ±30 | ±50 | | ±20 | ±30 | ±20 |
| | ±30 | ±50 | | ±20 | ±30 | ±20 |
| | ±30 | ±50 | | ±20 | ±30 | ±20 |
| | ±30 | ±50 | | ±20 | ±30 | ±20 |
| | ±40 | ±50 | | ±20 | ±30 | ±20 |
| | ±40 | ±50 | | ±30 | ±40 | ±30 |
| | ±40 | ±50 | | ±30 | ±40 | ±30 |
| | ±40 | ±50 | | ±30 | ±40 | ±30 |
| | ±40 | ±50 | | ±30 | ±40 | ±30 |
| | ±50 | ±50 | | ±30 | ±40 | ±30 |
| | ±50 | ±50 | | ±30 | ±40 | ±30 |
| | - | - | | - | ±40 | ±40 |
| | - | - | | - | ±50 | ±40 |



| Family | | Universal | | Workshop | Depth | Special |
|---|----------------------------------|-----------|----------|----------|----------|----------|
|  | Type | TESA-CAL | TWIN-CAL | TWIN-CAL | TWIN-CAL | TWIN-CAL |
|  | Buttons | 2 | 2 | 2 | 2 | 2 |
|  | Mode ABS | • | • | • | • | • |
|  | Mode DIFF | • | • | • | • | • |
|  | Zero-setting | • | • | • | • | • |
|  | Resolution (0,01 mm / 0.0005 in) | • | • | • | • | • |
|  | Display mm/in | • | • | • | • | • |
|  | Large high-contrast display | • | • | • | • | • |
|  | LCD, 11 mm | • | • | • | • | • |
|  | Automatic sleep mode | • | • | • | • | • |
|  | Data transmission via cable | | • | • | • | • |
|  | Wireless data transmission | | • | • | • | • |
|  | Low battery indicator | • | • | • | • | • |
|  | OK/NOK* Function | | • | • | • | • |

* when using with TESA STAT-EXPRESS software



Universal dial models



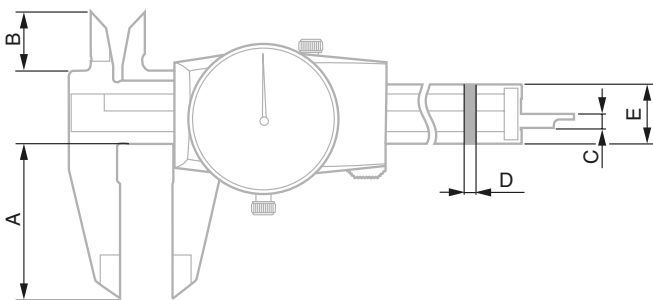
00510050



00510004



00510008



ISO 13385-1:2019



Hardened stainless steel
Gear mechanism
made of hardened,
ground steel



Shockproof system



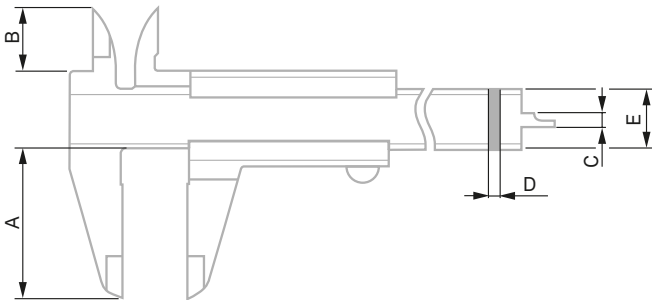
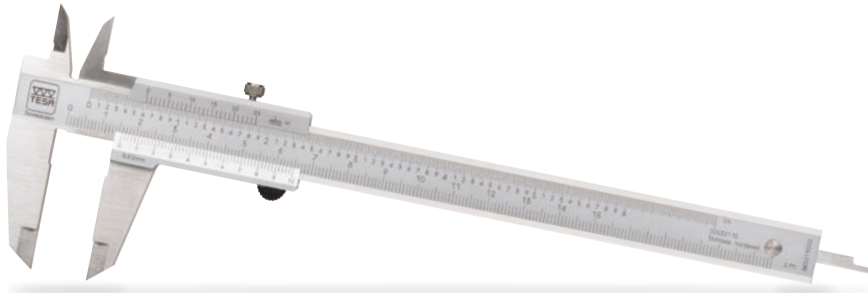
Rotating dial $\varnothing 32$ mm
with locking screw





Locking screw
of the slider


| Part number | Measuring range [mm] | Resolution [mm] | [mm]/ revolution | Thumb roller | Housing | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] |
|-------------|-------------------------|--------------------|---------------------|--------------|---------|-----------|-----------|-----------|-----------|-----------|
| 00510050 | 150 | 0,01 | 1 | – | metal | 40 | 13 | 1,5 x 1,9 | 3,2 | 15,5 |
| 075115821 | 150 | 0,02 | 1 | – | metal | 40 | 13 | 1,5 x 1,9 | 3,2 | 15,5 |
| 00510008 | 150 | 0,02 | 2 | – | metal | 40 | 13 | 1,5 x 1,9 | 3,2 | 15,5 |
| 00510004 | 150 | 0,02 | 2 | – | plastic | 40 | 13 | 1,5 x 1,9 | 3,2 | 15,5 |
| 00510045 | 200 | 0,02 | 2 | ● | metal | 50 | 18,6 | 1,5 x 1,9 | 3,6 | 15,5 |
| 00510046 | 300 | 0,02 | 2 | ● | metal | 64 | 20,6 | 1,5 x 1,9 | 4 | 15,5 |


Universal vernier models




 ISO 13385-1:2019

 Hardened stainless steel

 Satin-chrome scale background

 Main scale slightly set back for protection against wear

 Locking screw of the slider

| Part number | Measuring range | | Resolution | | Self-locking | A | B | C | D | E |
|-------------|-----------------|------|------------|-------|--------------|------|------|---------|------|------|
| | [mm] | [in] | [mm] | [in] | | [mm] | [mm] | [mm] | [mm] | [mm] |
| 00510070 | 150 | | 0,02 | | – | 40 | 21 | 1,5 x 2 | 3 | 16 |
| 00530110 | 150 | 6 | 0,02 | .001 | – | 40 | 21 | 1,5 x 2 | 3 | 16 |
| 00530121 | 150 | 6 | 0,02 | .001 | ● | 40 | 21 | 1,5 x 2 | 3 | 16 |
| 00510073 | 150 | | 0,05 | | – | 40 | 21 | 1,5 x 2 | 3 | 16 |
| 00530103 | 150 | 6 | 0,05 | 1/128 | – | 40 | 21 | 1,5 x 2 | 3 | 16 |
| 00530120 | 150 | 6 | 0,05 | 1/128 | ● | 40 | 21 | 1,5 x 2 | 3 | 16 |
| 00510071 | 200 | | 0,02 | | – | 50 | 23,5 | 1,5 x 2 | 3,5 | 17 |
| 00530111 | 200 | 8 | 0,02 | .001 | – | 50 | 23,5 | 1,5 x 2 | 3,5 | 17 |
| 00510074 | 200 | | 0,05 | | – | 50 | 23,5 | 1,5 x 2 | 3,5 | 17 |
| 00530104 | 200 | 8 | 0,05 | 1/128 | – | 50 | 23,5 | 1,5 x 2 | 3,5 | 17 |
| 00510072 | 300 | | 0,02 | | – | 64 | 27,5 | 1,5 x 2 | 4 | 20 |
| 00530112 | 300 | 12 | 0,02 | .001 | – | 64 | 27,5 | 1,5 x 2 | 4 | 20 |
| 00510075 | 300 | | 0,05 | | – | 64 | 27,5 | 1,5 x 2 | 4 | 20 |
| 00530105 | 300 | 12 | 0,05 | 1/128 | – | 64 | 27,5 | 1,5 x 2 | 4 | 20 |

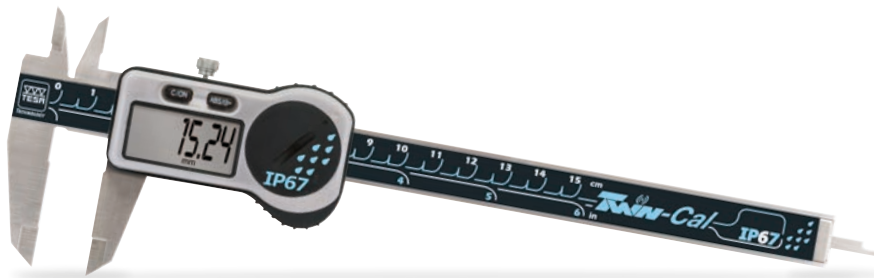
Universal digital models



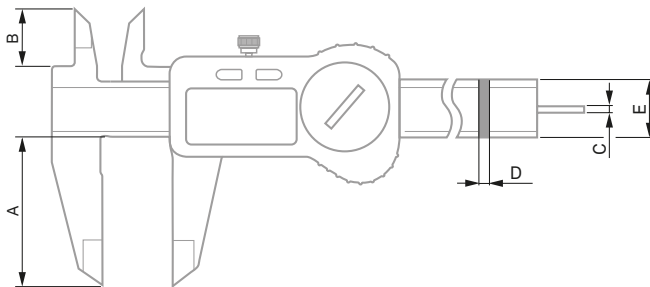
Data transmission



IP67, without data transmission



IP67, Data transmission



ISO 13385-1:2019



Hardened stainless steel



LCD, 11 mm



Resolution
0,01 mm / .0005 in



Data transmission
(via cable or wireless)

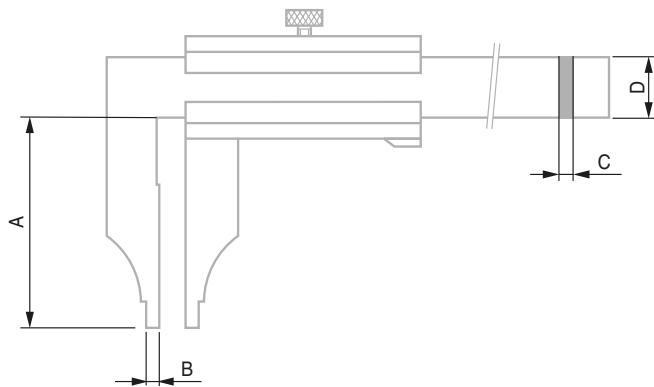
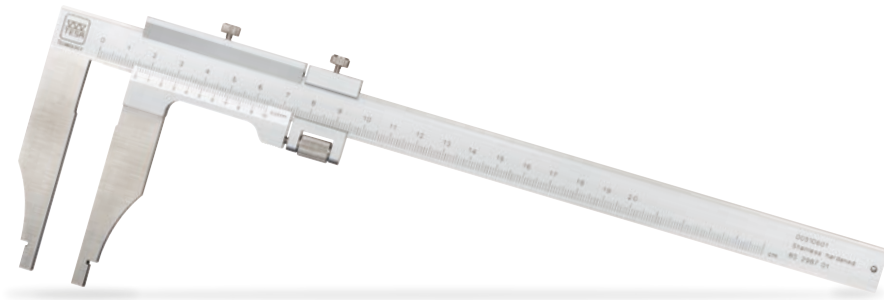


Locking screw
of the slider

| Part number | Measuring range | | Degree of protection | Thumb roller | Data transmission | A | B | C | D | E |
|-------------|-----------------|------|----------------------|--------------|-------------------|------|------|-----------|------|------|
| | [mm] | [in] | | | | [mm] | [mm] | [mm] | [mm] | [mm] |
| 00530094 | 150 | 6 | | ● | ● | 40 | 16 | ∅1,5 | 3,2 | 15,5 |
| 00530097 | 150 | 6 | | – | ● | 40 | 16 | 1,3 x 1,7 | 3,2 | 15,5 |
| 00530140 | 150 | 6 | IP67 | – | – | 40 | 16 | 1,3 x 1,7 | 3,2 | 15,5 |
| 00530141 | 150 | 6 | IP67 | – | – | 40 | 16 | ∅1,5 | 3,2 | 15,5 |
| 00530319 | 150 | 6 | IP67 | – | ● | 40 | 16 | 1,3 x 1,7 | 3,2 | 15,5 |
| 00530320 | 150 | 6 | IP67 | – | ● | 40 | 16 | ∅1,5 | 3,2 | 15,5 |
| 00530321 | 150 | 6 | IP67 | ● | ● | 40 | 16 | ∅1,5 | 3,2 | 15,5 |
| 00530095 | 200 | 8 | | ● | ● | 50 | 20 | 1,3 x 1,7 | 3,6 | 15,5 |
| 00530142 | 200 | 8 | IP67 | ● | – | 50 | 20 | 1,3 x 1,7 | 3,6 | 15,5 |
| 00530322 | 200 | 8 | IP67 | ● | ● | 50 | 20 | 1,3 x 1,7 | 3,6 | 15,5 |
| 00530096 | 300 | 12 | | ● | ● | 64 | 22 | 1,3 x 1,7 | 4 | 15,5 |
| 00530143 | 300 | 12 | IP67 | ● | – | 64 | 22 | 1,3 x 1,7 | 4 | 15,5 |
| 00530323 | 300 | 12 | IP67 | ● | ● | 64 | 22 | 1,3 x 1,7 | 4 | 15,5 |

Workshop vernier models

with rounded internal measuring faces



ISO 13385-1:2019



Hardened stainless steel



Satin-chrome scale background



Main scale slightly set back for protection against wear

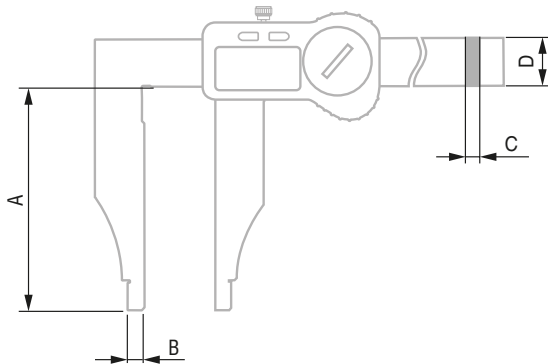


Locking screw of the slider

| Part number | Measuring range | | Resolution | | Fine adjustment | A | B | C | D |
|-------------|-----------------|------|------------|-------|-----------------|-----|----|-----|----|
| | [mm] | [in] | [mm] | [in] | | | | | |
| 00510509 | 200 | | 0,02 | | – | 60 | 5 | 3,5 | 17 |
| 00510601 | 200 | | 0,02 | | ● | 60 | 5 | 3,5 | 17 |
| 00510506 | 200 | | 0,05 | | – | 60 | 5 | 3,5 | 17 |
| 00510602 | 200 | | 0,05 | | ● | 60 | 5 | 3,5 | 17 |
| 00530506 | 200 | 8 | 0,05 | 1/128 | – | 60 | 5 | 3,5 | 17 |
| 00530602 | 200 | 8 | 0,05 | 1/128 | ● | 60 | 5 | 3,5 | 17 |
| 00510521 | 300 | | 0,02 | | – | 90 | 5 | 4 | 20 |
| 00510621 | 300 | | 0,02 | | ● | 90 | 5 | 4 | 20 |
| 00510522 | 300 | | 0,05 | | – | 90 | 5 | 4 | 20 |
| 00510622 | 300 | | 0,05 | | ● | 90 | 5 | 4 | 20 |
| 00530522 | 300 | 12 | 0,05 | 1/128 | – | 90 | 5 | 4 | 20 |
| 00530622 | 300 | 12 | 0,05 | 1/128 | ● | 90 | 5 | 4 | 20 |
| 00510541 | 500 | | 0,02 | | – | 150 | 10 | 6 | 28 |
| 00510641 | 500 | | 0,02 | | ● | 150 | 10 | 6 | 28 |
| 00510542 | 500 | | 0,05 | | – | 150 | 10 | 6 | 28 |
| 00510642 | 500 | | 0,05 | | ● | 150 | 10 | 6 | 28 |
| 00530542 | 500 | 20 | 0,05 | 1/128 | – | 150 | 10 | 6 | 28 |
| 00530642 | 500 | 20 | 0,05 | 1/128 | ● | 150 | 10 | 6 | 28 |

Digital workshop models

with rounded internal measuring faces



ISO 13385-1:2019



Hardened stainless steel



LCD, 11 mm



Resolution
0,01 mm / .0005 in



Data transmission
(via cable or wireless)

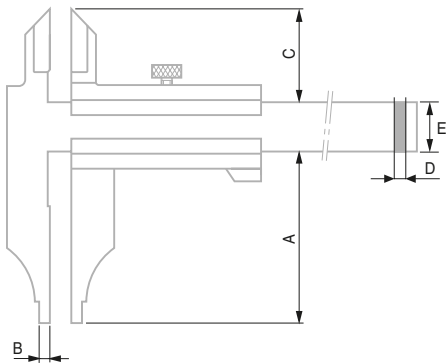


Locking screw
of the slider

| Part number | Measuring range | | Degree of protection | Data transmission | A | B | C | D |
|-------------|-----------------|------|----------------------|-------------------|------|------|------|------|
| | [mm] | [in] | | | [mm] | [mm] | [mm] | [mm] |
| 00530421 | 200 | 8 | IP67 | ● | 80 | 5 | 4 | 20 |
| 00530422 | 250 | 10 | IP67 | ● | 80 | 5 | 4 | 20 |
| 00530423 | 300 | 12 | IP67 | ● | 80 | 5 | 4 | 20 |
| 00530424 | 500 | 20 | IP67 | ● | 150 | 10 | 6 | 28 |
| 00530425 | 600 | 24 | IP67 | ● | 150 | 10 | 6 | 28 |
| 00530426 | 800 | 32 | IP67 | ● | 150 | 10 | 8 | 32 |
| 00530427 | 1000 | 39 | IP67 | ● | 150 | 10 | 8 | 32 |

Workshop vernier models

with rounded internal measuring faces
and knife-edge external jaws



ISO 13385-1:2019



Hardened stainless steel



Satin-chrome
scale background



Main scale slightly set
back for protection
against wear

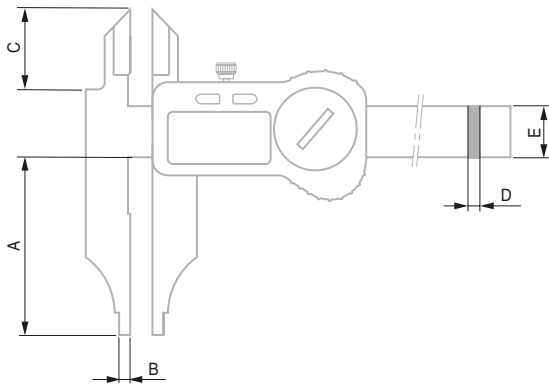


Locking screw
of the slider

| Part number | Measuring range | | Resolution | | Fine adjustment | A | B | C | D | E |
|-------------|-----------------|------|------------|-------|-----------------|-----|----|----|-----|----|
| | [mm] | [in] | [mm] | [in] | | | | | | |
| 00510701 | 200 | | 0,02 | | – | 60 | 5 | 30 | 3,5 | 17 |
| 00510801 | 200 | | 0,02 | | ● | 60 | 5 | 30 | 3,5 | 17 |
| 00510702 | 200 | | 0,05 | | – | 60 | 5 | 30 | 3,5 | 17 |
| 00510802 | 200 | | 0,05 | | ● | 60 | 5 | 30 | 3,5 | 17 |
| 00530702 | 200 | 8 | 0,05 | 1/128 | – | 60 | 5 | 30 | 3,5 | 17 |
| 00530802 | 200 | 8 | 0,05 | 1/128 | ● | 60 | 5 | 30 | 3,5 | 17 |
| 00510721 | 300 | | 0,02 | | – | 90 | 5 | 38 | 4 | 20 |
| 00510821 | 300 | | 0,02 | | ● | 90 | 5 | 38 | 4 | 20 |
| 00510722 | 300 | | 0,05 | | – | 90 | 5 | 38 | 4 | 20 |
| 00510822 | 300 | | 0,05 | | ● | 90 | 5 | 38 | 4 | 20 |
| 00530722 | 300 | 12 | 0,05 | 1/128 | – | 90 | 5 | 38 | 4 | 20 |
| 00530822 | 300 | 12 | 0,05 | 1/128 | ● | 90 | 5 | 38 | 4 | 20 |
| 00510741 | 500 | | 0,02 | | – | 150 | 10 | 60 | 6 | 28 |
| 00510841 | 500 | | 0,02 | | ● | 150 | 10 | 60 | 6 | 28 |
| 00510742 | 500 | | 0,05 | | – | 150 | 10 | 60 | 6 | 28 |
| 00510842 | 500 | | 0,05 | | ● | 150 | 10 | 60 | 6 | 28 |
| 00530742 | 500 | 20 | 0,05 | 1/128 | – | 150 | 10 | 60 | 6 | 28 |
| 00530842 | 500 | 20 | 0,05 | 1/128 | ● | 150 | 10 | 60 | 6 | 28 |

Digital workshop models

with rounded internal measuring faces
and knife-edge external jaws



ISO 13385-1:2019



Hardened stainless steel



LCD, 11 mm



Resolution
0,01 mm / .0005 in



Data transmission
(via cable or wireless)

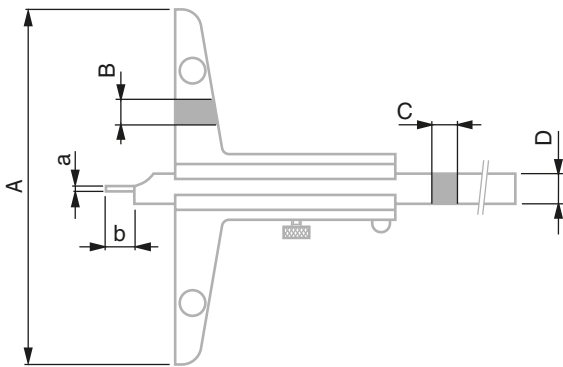


Locking screw
of the slider

| Part number | Measuring range | | Degree of protection | Data transmission | A | B | C | D | E |
|-------------|-----------------|------|----------------------|-------------------|------|------|------|------|------|
| | [mm] | [in] | | | [mm] | [mm] | [mm] | [mm] | [mm] |
| 00530431 | 200 | 8 | IP67 | ● | 80 | 5 | 30 | 4 | 20 |
| 00530432 | 250 | 10 | IP67 | ● | 80 | 5 | 37 | 4 | 20 |
| 00530433 | 300 | 12 | IP67 | ● | 80 | 5 | 37 | 4 | 20 |
| 00530434 | 500 | 20 | IP67 | ● | 150 | 10 | 60 | 6 | 28 |
| 00530435 | 600 | 24 | IP67 | ● | 150 | 10 | 60 | 6 | 28 |
| 00530436 | 800 | 32 | IP67 | ● | 150 | 10 | 56 | 8 | 32 |
| 00530437 | 1000 | 39 | IP67 | ● | 150 | 10 | 56 | 8 | 32 |

Vernier depth models

with short cut measuring face



ISO 13385-2:2019



Hardened stainless steel



Satin-chrome scale background



Main scale slightly set back for protection against wear



Locking screw of the slider

| Part number | Measuring range [mm] | Resolution [mm] | Steel measuring tip | A [mm] | B [mm] | C [mm] | D [mm] | a [mm] | b [mm] |
|-------------|-------------------------|--------------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 00510233 | 150 | 0,02 | – | 100 | 6,5 | 3 | 8 | | |
| 00510234 | 150 | 0,05 | – | 100 | 6,5 | 3 | 8 | | |
| 00510223 | 150 | 0,02 | ● | 100 | 6,5 | 3 | 8 | Ø1,5 | 8 |
| 00510224 | 150 | 0,05 | ● | 100 | 6,5 | 3 | 8 | Ø1,5 | 8 |
| 00510243 | 200 | 0,02 | – | 100 | 6,5 | 3 | 8 | | |
| 00510244 | 200 | 0,05 | – | 100 | 6,5 | 3 | 8 | | |
| 00510225 | 200 | 0,02 | ● | 100 | 6,5 | 3 | 8 | Ø1,5 | 8 |
| 00510226 | 200 | 0,05 | ● | 100 | 6,5 | 3 | 8 | Ø1,5 | 8 |
| 00510253 | 300 | 0,02 | – | 150 | 8 | 4 | 12 | | |
| 00510254 | 300 | 0,05 | – | 150 | 8 | 4 | 12 | | |
| 00510227 | 300 | 0,02 | ● | 150 | 8 | 4 | 12 | Ø2 | 8 |
| 00510228 | 300 | 0,05 | ● | 150 | 8 | 4 | 12 | Ø2 | 8 |
| 00510263 | 500 | 0,02 | – | 150 | 8 | 4 | 12 | | |
| 00510264 | 500 | 0,05 | – | 150 | 8 | 4 | 12 | | |

Digital depth models

with short cut measuring face



ISO 13385-2:2019



Hardened stainless steel



LCD, 11 mm



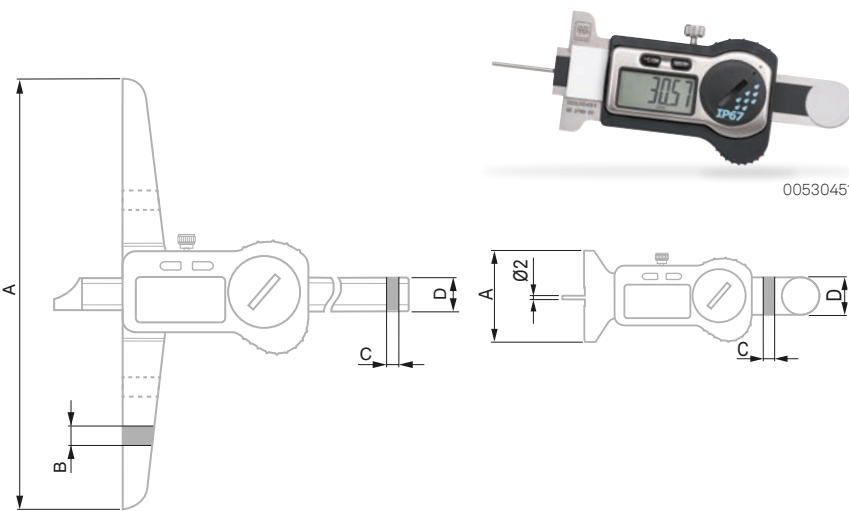
Resolution
0,01 mm / .0005 in



Data transmission
(via cable or wireless)



Locking screw
of the slider



00530451

| Part number | Measuring range | | Degree of protection | Steel measuring tip | Data transmission | A | B | C | D |
|-------------|-----------------|------|----------------------|---------------------|-------------------|------|------|------|------|
| | [mm] | [in] | | | | [mm] | [mm] | [mm] | [mm] |
| 00530441 | 200 | 8 | IP67 | - | ● | 100 | 8,5 | 4 | 15 |
| 00530442 | 250 | 10 | IP67 | - | ● | 100 | 8,5 | 4 | 15 |
| 00530443 | 300 | 12 | IP67 | - | ● | 150 | 8,5 | 4 | 15 |
| 00530444 | 500 | 20 | IP67 | - | ● | 150 | 8,5 | 4 | 15 |
| 00530451 | 25 | 1 | IP67 | ● | ● | 50 | 7,15 | 4 | 20 |

Vernier depth models

with fixed hook



ISO 13385-2:2019



Hardened stainless steel



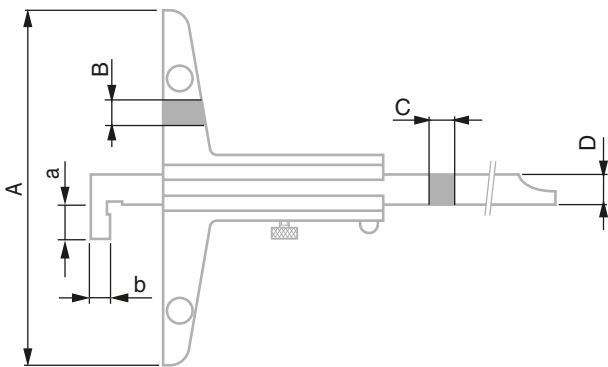
Satin-chrome
scale background



Main scale slightly set
back for protection
against wear



Locking screw
of the slider



| Part number | Measuring range [mm] | Resolution [mm] | Number of hooks | A [mm] | B [mm] | C [mm] | D [mm] | a [mm] | b [mm] |
|-------------|-------------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 00510275 | 150 | 0,02 | 1 | 100 | 6,5 | 3 | 8 | 12 | 5 |
| 00510276 | 150 | 0,05 | 1 | 100 | 6,5 | 3 | 8 | 12 | 5 |
| 00510277 | 200 | 0,02 | 1 | 100 | 6,5 | 3 | 8 | 12 | 5 |
| 00510278 | 200 | 0,05 | 1 | 100 | 6,5 | 3 | 8 | 12 | 5 |
| 00510279 | 300 | 0,02 | 1 | 150 | 8 | 4 | 10 | 16 | 10 |
| 00510280 | 300 | 0,05 | 1 | 150 | 8 | 4 | 10 | 16 | 10 |
| 00510281 | 500 | 0,02 | 1 | 150 | 8 | 4 | 10 | 16 | 10 |
| 00510282 | 500 | 0,05 | 1 | 150 | 8 | 4 | 10 | 16 | 10 |

Digital depth models

with fixed hooks



ISO 13385-2:2019



Hardened stainless steel



LCD, 11 mm



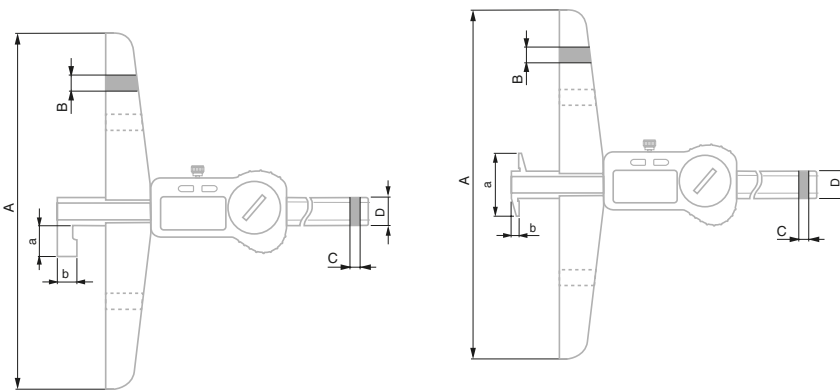
Resolution
0,01 mm / .0005 in



Data transmission
(via cable or wireless)



Locking screw
of the slider





| Part number | Measuring range | | Degree of protection | Data transmission | Number of hooks | A | B | C | D | a | b |
|-------------|-----------------|------|----------------------|-------------------|-----------------|------|------|------|------|------|------|
| | [mm] | [in] | | | | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] |
| 00530445 | 300 | 12 | IP67 | ● | 1 | 150 | 8,5 | 4 | 15 | 15,5 | 10 |
| 00530447 | 300 | 12 | IP67 | ● | 2 | 150 | 8,5 | 4 | 15 | 27,5 | 5 |
| 00530446 | 500 | 20 | IP67 | ● | 1 | 150 | 8,5 | 4 | 15 | 15,5 | 10 |


Vernier depth models


with rotary stop plate




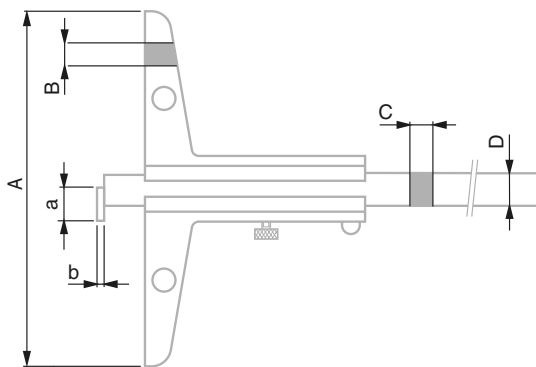
 ISO 13385-2:2019

 Hardened stainless steel

 Satin-chrome scale background

 Main scale slightly set back for protection against wear

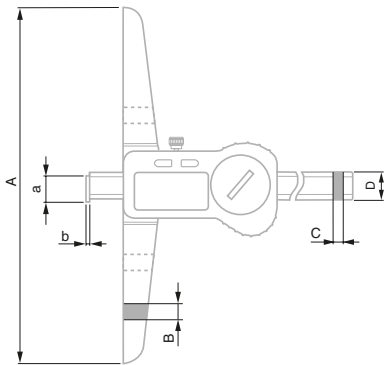
 Locking screw of the slider



| Part number | Measuring range [mm] | Resolution [mm] | A [mm] | B [mm] | C [mm] | D [mm] | a [mm] | b [mm] |
|-------------|-------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 00510291 | 150 | 0,02 | 150 | 8,5 | 4 | 12 | 5,3 | 2 |
| 00510292 | 150 | 0,05 | 150 | 8,5 | 4 | 12 | 5,3 | 2 |
| 00510293 | 250 | 0,02 | 150 | 8,5 | 4 | 12 | 5,3 | 2 |
| 00510294 | 250 | 0,05 | 150 | 8,5 | 4 | 12 | 5,3 | 2 |
| 00510295 | 500 | 0,02 | 150 | 8,5 | 4 | 12 | 5,3 | 2 |
| 00510296 | 500 | 0,05 | 150 | 8,5 | 4 | 12 | 5,3 | 2 |

Digital depth models

with rotary stop plate



ISO 13385-2:2019



Hardened stainless steel



LCD, 11 mm



Resolution
0,01 mm / .0005 in



Data transmission
(via cable or wireless)








Locking screw
of the slider

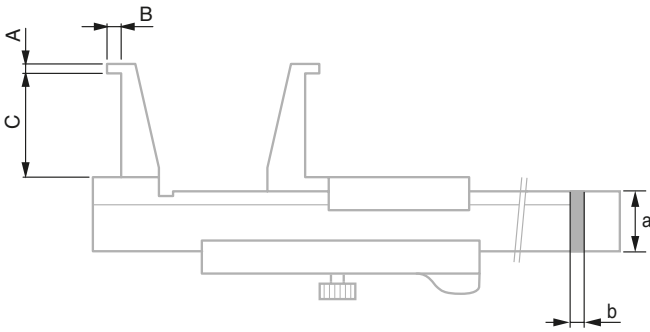
| Part number | Measuring range | | Degree of protection | Data transmission | A | B | C | D | a | b |
|-------------|-----------------|------|----------------------|-------------------|-----|-----|---|----|------|---|
| | [mm] | [in] | | | | | | | | |
| 00530448 | 250 | 10 | IP67 | ● | 150 | 8,5 | 4 | 15 | 15,7 | 2 |
| 00530449 | 350 | 14 | IP67 | ● | 150 | 8,5 | 4 | 15 | 15,7 | 2 |
| 00530450 | 500 | 20 | IP67 | ● | 150 | 8,5 | 4 | 15 | 15,7 | 2 |

Special vernier models

for groove measurement



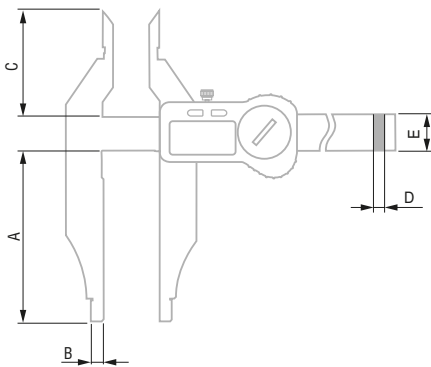
-  Factory standard
-  Hardened stainless steel
-  Satin-chrome scale background
-  Main scale slightly set back for protection against wear
-  Locking screw of the slider



| Part number | Measuring range [mm] | Resolution [mm] | MPE _E [μm] | A [mm] | B [mm] | C [mm] | a [mm] | b [mm] |
|-------------|-------------------------|--------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|
| 00510371 | 10 ÷ 160 | 0,05 | ±50 | 0,9 | 3 | 25 | 16 | 3 |
| 00510375 | 20 ÷ 160 | 0,05 | ±50 | 2,0 | 5 | 40 | 16 | 3 |
| 00510383 | 26 ÷ 200 | 0,02 | ±80 | 3,0 | 7 | 60 | 16 | 3 |
| 00510387 | 30 ÷ 250 | 0,02 | ±100 | 4,0 | 8,5 | 80 | 20 | 4 |
| 00510393 | 35 ÷ 300 | 0,02 | ±120 | 5,0 | 10 | 100 | 20 | 4 |

Special digital model

with rounded internal measuring faces
and knife-edge internal jaws



ISO 13385-1:2019



Hardened stainless steel



LCD, 11 mm



Resolution
0,01 mm / .0005 in



Data transmission
(via cable or wireless)

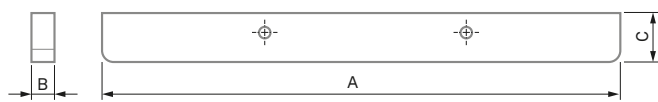
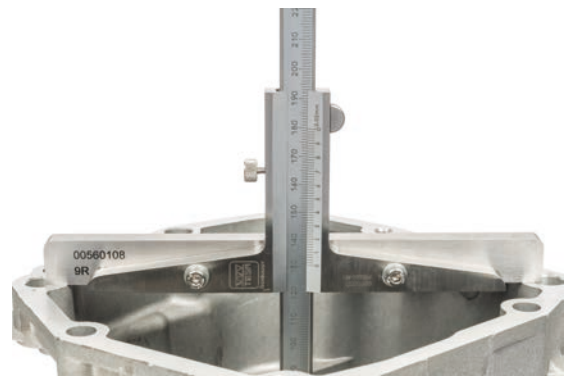
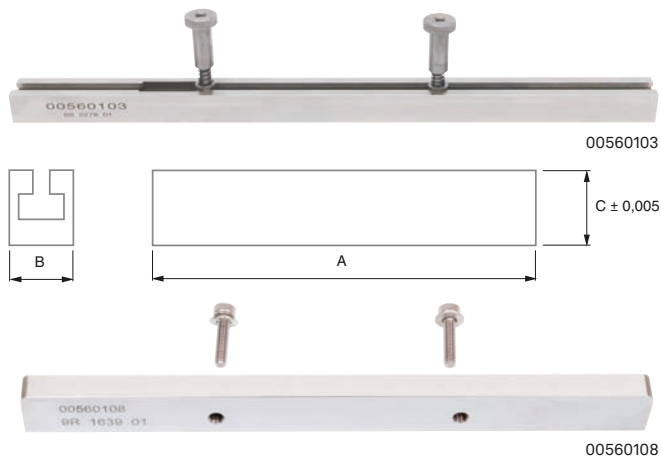


Locking screw
of the slider

| Part number | Measuring range | | Degree of protection | Data transmission | A | B | C | D | E |
|-------------|-----------------|------|----------------------|-------------------|------|------|------|------|------|
| | [mm] | [in] | | | [mm] | [mm] | [mm] | [mm] | [mm] |
| 00530430 | 250 | 10 | IP67 | ● | 80 | 5 | 54 | 4 | 20 |

Accessories

| Part number | Description | Notes |
|-------------|---|---|
| 00560013 | Depth foot | For universal digital or dial calipers of 150 mm |
| 00560055 | Depth foot | For universal vernier calipers of 150 mm |
| 00560106 | Thumb roller | For universal calipers TWIN-CAL 150 mm |
| 01961000 | Lithium battery 3 V, CR2032 | For digital instruments |
| 0051610365 | Magnetic magnifying glass, 3x magnification | For vernier instruments |
| 00560103 | Removable bridge, 200 mm | For digital depth calipers |
| 00560104 | Removable bridge, 300 mm | For digital depth calipers |
| 00560105 | Removable bridge, 400 mm | For digital depth calipers |
| 00560108 | Removable bridge, 180 mm | For vernier depth calipers, starting from 300 mm |
| 00560109 | Removable bridge, 260 mm | For vernier depth calipers, starting from 300 mm |
| 00560110 | Removable bridge, 320 mm | For vernier depth calipers, starting from 300 mm |
| - | TESA DATA-VIEWER software | Downloadable free of charge from the TESA website |
| 04981001 | TESA DATA-DIRECT software | For data formatting |
| 04981002 | TESA STAT-EXPRESS software | SPC software |
| - | Q-DAS (qs-STAT,...) software | Please contact your local dealer |
| 04760182 | TLC-DIGIMATIC cable | - |
| 04760181 | TLC-USB cable | - |
| 04760184 | Emitter TLC-BLE (Bluetooth®) | - |
| 04760185 | Dongle + 1,5 m cable | For use with 04760184 |
| 04760183 | Starter kit | = 04760184 + 04760185 |



| Part number | A [mm] | B [mm] | C [mm] |
|-------------|--------|--------|--------|
| 00560103 | 200 | 11,5 | 10 |
| 00560104 | 300 | 16 | 16 |
| 00560105 | 400 | 16 | 16 |
| 00560108 | 180 | 8 | 17 |
| 00560109 | 260 | 8 | 17 |
| 00560110 | 320 | 8 | 17 |

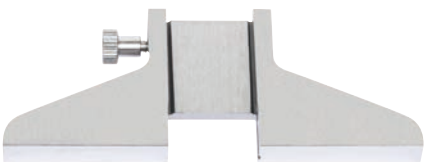
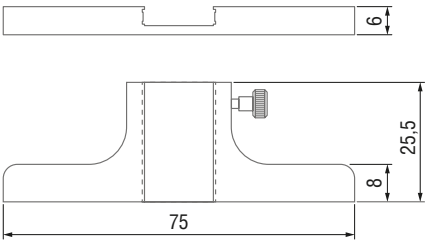




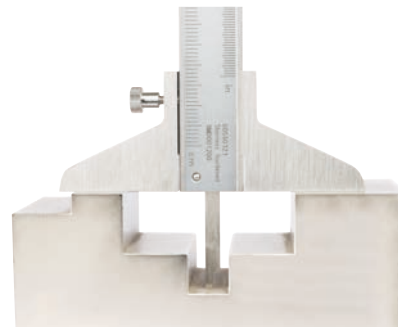
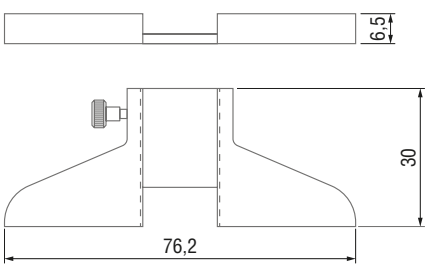
00560106



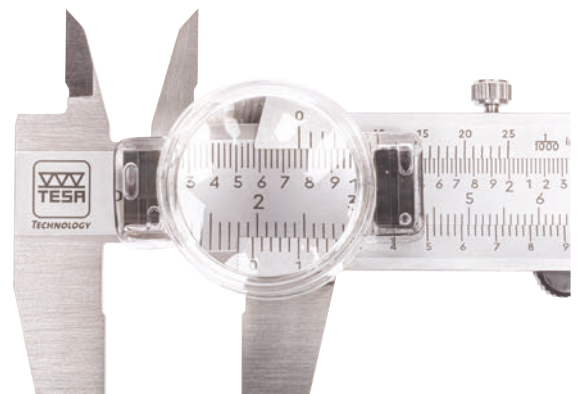
00560013



00560055



0051610365



Accessories



04760181



04760182



04760183



04760185



04760184



The TESA service, our priority

For TESA, customer care is essential. To satisfy the most demanding metrological expectations of our clients and to help them find solutions is our daily challenge.



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To preserve the accuracy of measurement of your tools, TESA controls and calibrates your equipment on request and can provide a certificate in accordance with ISO 17025.



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Your instrument needs to be repaired? TESA proposes quick solutions to repair, exchange and rent, if your equipment is under warranty or not.



Support

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For any requirements of specific measures, that you cannot find in our catalogue, you can contact our specialists to design a customised solution.



HEXAGON

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-  DESIGN AND COSTING SOFTWARE



Established in 1941 and headquartered in Renens, Switzerland, TESA manufactures and markets precision measuring instruments that stand for quality, reliability and longevity.

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