

# Calipers



## THE FAVOURITES

Calipers are the most popular length measuring instruments used worldwide. Owing to their simple construction, ease of handling and quick operation, they are the favourites in dimensional measurement. The wide variety of forms and shapes available with exclusive measuring faces make them the universal hand-held tools.

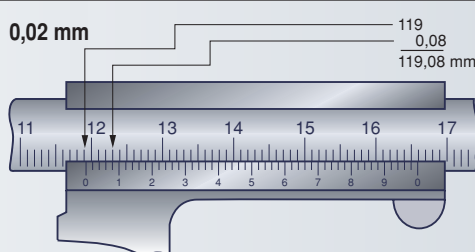
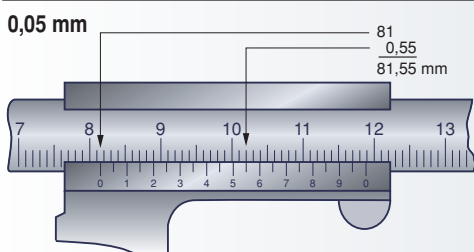
All calipers of the famous TESA, ETALON, INTERAPID and ROCH brand names are recognised for their superior quality – the guarantee for precise measurement. The flawless guide of the slider on the beam ensures silky-smooth operation while also preventing the measuring jaws from tilting.

The choice of the material with exactly defined heat treatment as well as a robust design result in further distinctive advantages such as wear and corrosion resistance.

For quick and easy reading of your measured values – a condition that's essential in the certainty of any measurement – we offer dial calipers for a comfortable reading or more sophisticated digital models for error-free reading besides regular vernier calipers.



### Vernier Calipers



| Chosen length l mm | 0,1<br>0,05 mm | 0,02 mm | 0,01 mm |
|--------------------|----------------|---------|---------|
| 50                 | 50             | 20      | 20      |
| 100                | 50             |         |         |
| 150                | 50             |         |         |
| 300                | 60             | 30      | 30      |
| 400                | 70             |         |         |
| 500                | 80             |         |         |
| 600                | 90             |         |         |
| 700                | 100            |         |         |
| 800                | 110            | 40      | 40      |
| 900                | 120            |         |         |
| 1000               | 140            |         |         |
| 1200               | 160            | 50      |         |
| 1400               | 180            |         |         |
| 1600               | 200            | 60      |         |
| 1800               | 220            |         |         |
| 2000               |                |         |         |



### Max. Permissible Errors

The max. permissible errors (G) are expressed by the equation given below, where the values should be rounded down to two decimal fractions (0,01 mm).

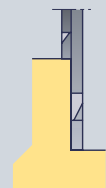
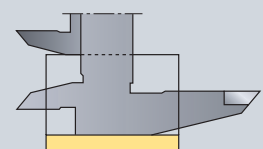
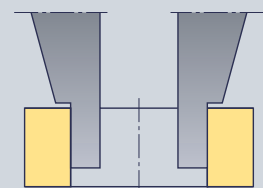
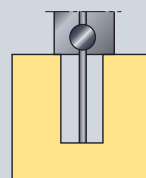
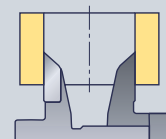
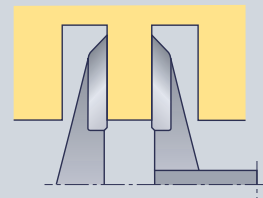
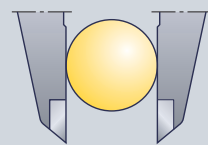
They apply in measurement taken under the same measuring force. For all other measurements, including those performed with use of the depth foot, the values obtained have to be increased by 20 µm.

Calipers with scale or vernier reading to 0,1 or 0,05 mm:

$$G = (20 + l / 10 \text{ mm}) \mu\text{m} \geq 50 \mu\text{m}$$

Calipers with analogue indication (scale or vernier reading to 0,02 mm) or numerical indication:

$$G = (22 + l / 50 \text{ mm}) \mu\text{m}$$



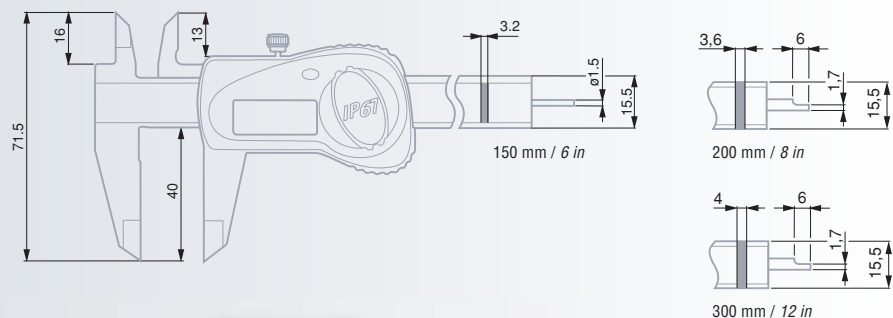
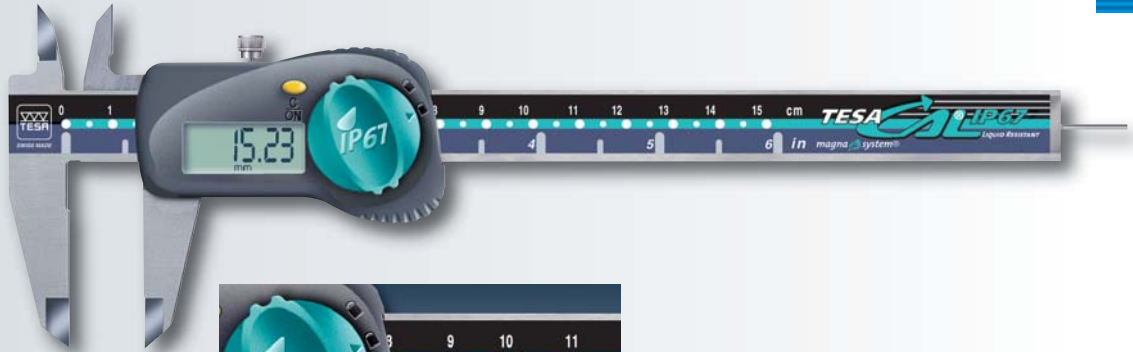
## TESA CAL IP67 magna $\mu$ system



Patented measuring system – TESA magna  $\mu$  system

New electronic caliper – The highest degree of protection ever achieved with hand-held tools of this type – Totally immune to the penetration of liquids and particles of metal.

Magnetic measuring system – a TESA's technology guaranteeing full reliability and accuracy, even in the toughest conditions of use – SWISS MADE.



✓



DIN 862  
(Style 1A-ZS)



0,01 mm  
0.0005 in



LCD, 7 mm



Floating zero



Conversion  
mm / in



≤100 mm = 20  $\mu$ m  
>100 mm = 30  $\mu$ m



10  $\mu$ m



Steel scale with  
incremental  
divisions, magnetic



> 1,8 m / s



RS232  
opto-coupled,  
mono- and  
bi-directional



Hardened  
stainless steel



3V lithium  
battery, CR 2032



≈ 1,5 A  
(≈ 2000 h / a)



Idle mode  
after 10 min,  
automatic switch  
off after 2 h.



10°C to 40°C



-10°C to 60°C



-10°C to 60°C



100%



IP67  
(IEC 60529)



EN 50081-1  
EN 50082-1



Suited  
plastic case



Identification  
number



Inspection  
report with a  
declaration of  
conformity



mm / in



RS232



Thumb roller



A mm



B mm



C mm



g

|          | mm / in  | RS232 | Thumb roller | A mm | B mm | C mm  | g   |
|----------|----------|-------|--------------|------|------|-------|-----|
| 00530300 | 150 / 6  | —     | —            | 40   | 16   | 71,5  | 140 |
| 00530301 | 150 / 6  | —     | ●            | 40   | 16   | 71,5  | 140 |
| 00530302 | 200 / 8  | —     | ●            | 50   | 20   | 89,5  | 200 |
| 00530303 | 300 / 12 | —     | ●            | 64   | 22   | 105,5 | 270 |
| 00530311 | 150 / 6  | ●     | ●            | 40   | 16   | 71,5  | 140 |
| 00530312 | 200 / 8  | ●     | ●            | 50   | 20   | 89,5  | 200 |
| 00530313 | 300 / 12 | ●     | ●            | 64   | 22   | 105,5 | 270 |

### Optional Accessories

|                                      |                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------|
| 01961000                             | 3 V lithium battery, 190 mAh, type CR 2032                                     |
| 00560013                             | Depth foot for calipers having a 150 mm measuring span (also see on page B-24) |
| For connecting cables, see section A |                                                                                |

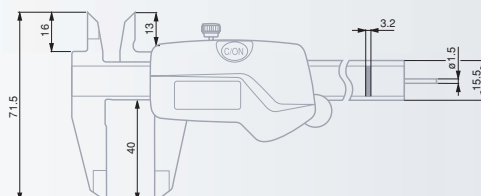
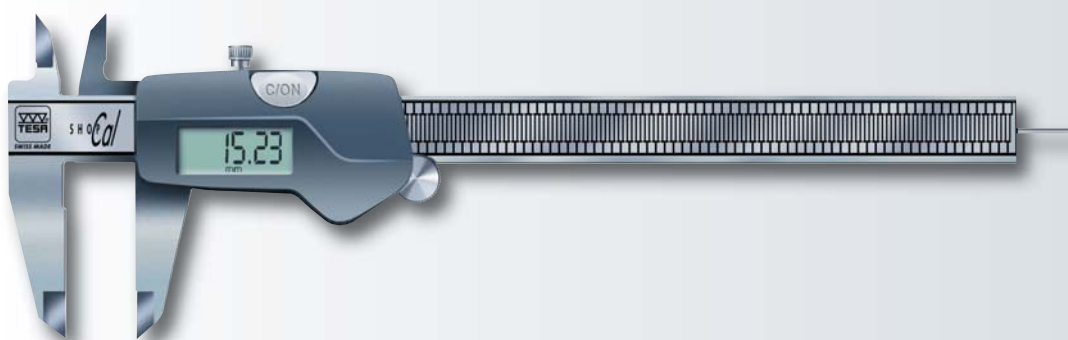


## TESA SHOP-CAL



Patented measuring system – TESA magna  $\mu$  system

- ABSOLUTE or DIFFERENCE measurements
- High quality precision mechanics
- Large LC display
- Easy-to-use
- Best Price/Performance relationship



|  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>00530090</b>                                                                     | mm / in<br>150 / 6                                                                  | ●                                                                                   | A mm<br>40                                                                          | B mm<br>16                                                                          | C mm<br>71,5                                                                          | g<br>140                                                                              |
| <i>Optional Accessories</i>                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| <b>01961000</b>                                                                     | 3 V lithium battery, 190 mAh, type CR 2032                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| <b>00560013</b>                                                                     | Depth foot for calipers having a 150 mm measuring span<br>(also see on page B-24)   |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |



✓



DIN 862  
(Style 1AZ)



0,01 mm  
0.0005 in



LCD, 7 mm



Floating zero



«ABS» and  
«DIFF»



Conversion  
mm / in



$\leq 100$  mm = 20  $\mu$ m  
 $> 100$  mm = 30  $\mu$ m



10  $\mu$ m



Capacitive  
glass scale with  
incremental  
divisions



$> 2$  m / s



Hardened  
stainless steel



3V lithium  
battery, CR 2032



$\approx 2$  a  
( $\approx 2000$  h / a)



Idle mode  
after 10 min,  
automatic switch  
off after 2 h.



10°C to 40°C



-10°C to 60°C



80%



IP40  
(IEC 60529)



EN 50081-1  
EN 50082-1



Suited  
plastic case



Identification  
number



Inspection  
report with a  
declaration of  
conformity



DIN 862  
(Style 1AR)

≤100 mm = 20 µm  
>100 mm = 30 µm

Hardened  
stainless steel

32 mm  
diameter  
rotating dial  
with lock

Slider with  
locking screw

Steel gear me-  
chanism, hardened  
and ground

Patented  
shockproof  
design

Suited  
plastic case

Identification  
number

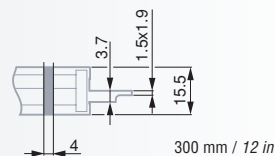
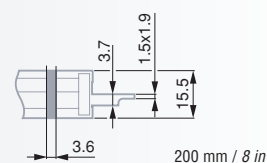
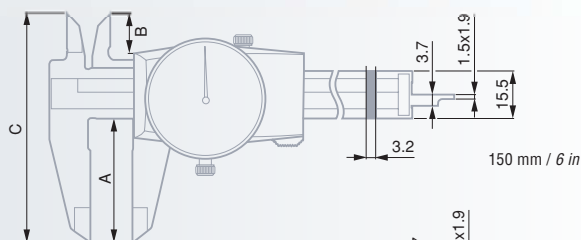
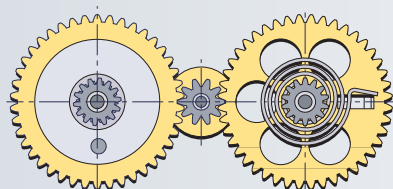
Inspection report  
with a declaration  
of conformity

## Dial Calipers

Rugged construction – High accuracy – Patented shockproof design – Ideal for use in the workshop.

### Models TESA CCMA-M

Easy-to-read dial calipers – Slider with metal dial housing – Models with a 200 or 300 measuring span fitted with a thumb roller.



Thumb roller

|                                     | A mm | B mm | C mm  |
|-------------------------------------|------|------|-------|
| 00510008 0 ÷ 150 mm 0,02 mm 2 mm –  | 40   | 13   | 74    |
| 00520002 0 ÷ 6 in 0.001 in 0.1 in – | 40   | 13   | 74    |
| 00510045 0 ÷ 200 mm 0,02 mm 2 mm ●  | 50   | 18,6 | 89,5  |
| 00510046 0 ÷ 300 mm 0,02 mm 2 mm ●  | 64   | 20,6 | 105,5 |

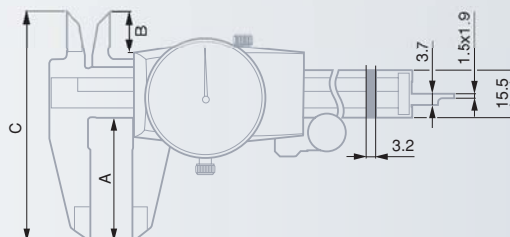
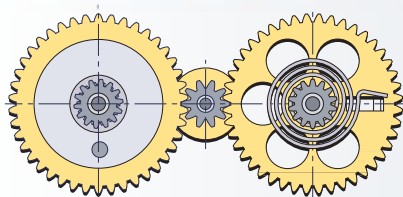
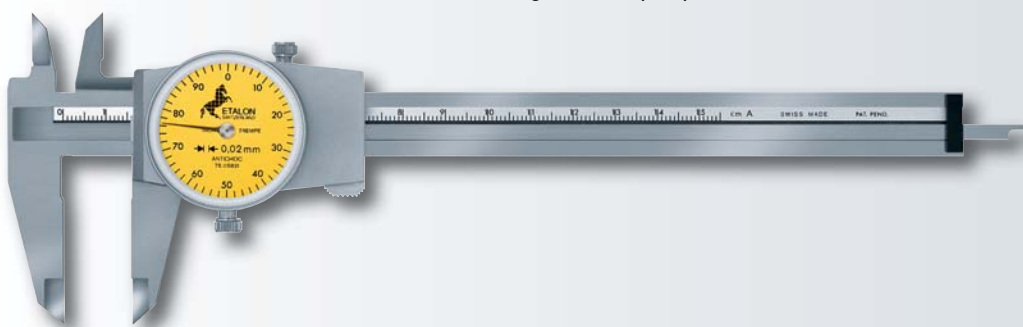
#### Optional Accessory

00560013 Depth foot for models 150 mm/6 in (also see page B-24)



## Model ETALON 125

Slider with metal dial housing – 1 mm per pointer revolution.



**075115821**



0 ÷ 150 mm



0,02 mm



1 mm



without thumb roller

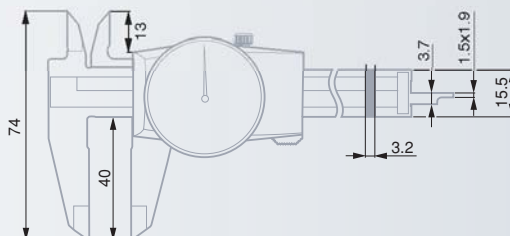
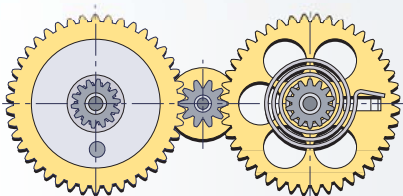
*Optional Accessory*

**00560013**

Depth foot (also see page B-24)

## Model TESA CCMA-M, 0,01 mm

Slider with metal dial housing – 1 mm per pointer revolution.



**00510050**



0 ÷ 150 mm



0,01 mm



1 mm

*Optional Accessory*

**00560013**

Depth foot (also see page B-24)



DIN 862  
(Style 1AR)



≤ 100 mm = 20 μm  
> 100 mm = 30 μm



Hardened  
stainless steel



32 mm  
diameter  
rotating dial  
with lock



Slider with  
locking screw



Steel gear mechanism,  
hardened  
and ground



Patented  
shockproof  
design



Suited  
plastic case



Identification  
number



Inspection report  
with a declaration  
of conformity



DIN 862  
(Style 1AR)



≤ 100 mm = 20 μm  
> 100 mm = 30 μm



Hardened  
stainless steel



32 mm dia.  
rotating dial  
with lock



Slider with  
locking screw



Steel gear,  
hardened  
and ground



Patented  
shockproof  
design



Suited  
plastic case



Identification  
number



Inspection report  
with a declaration  
of conformity

## Model TESA CCMA-P

Quick and easy reading – Slider with plastic dial housing.



DIN 862  
(Style 1AR)



≤100 mm = 20 µm  
>100 mm = 30 µm



Hardened  
stainless steel



32 mm dia.  
rotating dial  
with lock



Slider  
with plastic dial  
housing plus  
locking screw



Steel gear,  
hardened  
and ground



Patented  
shockproof  
design



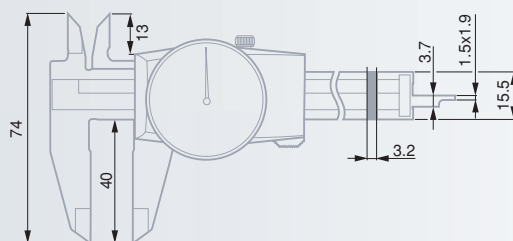
Suited  
plastic case



Identification  
number



Inspection report  
with a declaration  
of conformity



00510004



0 ÷ 150 mm



0,02 mm



2 mm

00520001

0 ÷ 6 in

0.001 in

0.1 in

Optional Accessory

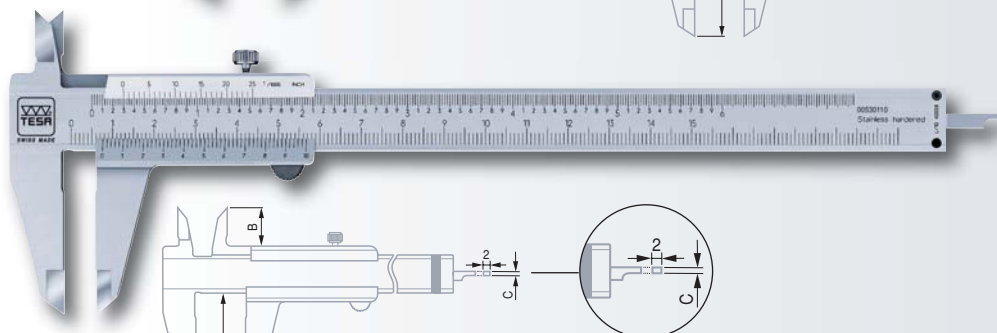
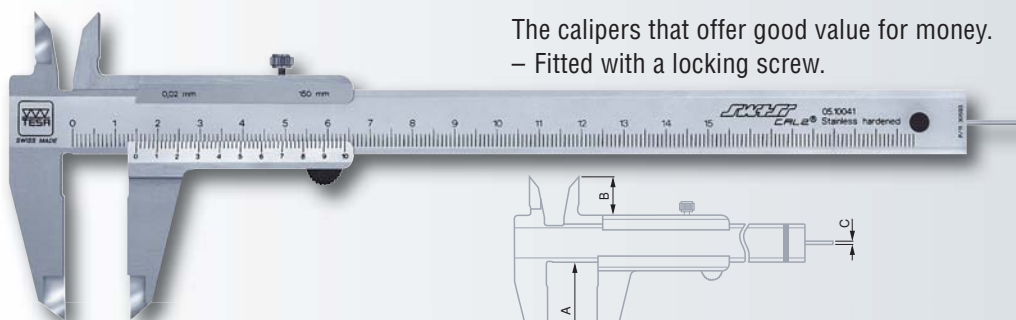
00560013

Depth foot (also see page B-24)



## TESA Calipers with Vernier Reading

The calipers that offer good value for money.  
– Fitted with a locking screw.



| No       | TESA                                          |  | mm      | mm   | in     | in              | A mm | B mm | C mm    |
|----------|-----------------------------------------------|--|---------|------|--------|-----------------|------|------|---------|
| 00510041 | SWISSCAL 2                                    |  | 0 ÷ 150 | 0,02 | —      | —               | 40   | 15,5 | Ø 1,5   |
| 00510047 | Standard model                                |  | 0 ÷ 150 | 0,05 | —      | —               | 40   | 15,5 | Ø 1,5   |
| 00530103 | Standard model                                |  | 0 ÷ 150 | 0,05 | 0 ÷ 6  | $\frac{1}{128}$ | 40   | 15,5 | Ø 1,5   |
| 00530104 | Standard model                                |  | 0 ÷ 200 | 0,05 | 0 ÷ 8  | $\frac{1}{128}$ | 50   | 18   | 1,5 x 2 |
| 00530105 | Standard model                                |  | 0 ÷ 300 | 0,05 | 0 ÷ 12 | $\frac{1}{128}$ | 64   | 22   | —       |
| 00530110 | Standard model                                |  | 0 ÷ 150 | 0,02 | 0 ÷ 6  | 0.001           | 40   | 15,5 | Ø 1,5   |
| 00530111 | Standard model                                |  | 0 ÷ 200 | 0,02 | 0 ÷ 8  | 0.001           | 50   | 18   | 1,5 x 2 |
| 00530112 | Standard model                                |  | 0 ÷ 300 | 0,02 | 0 ÷ 12 | 0.001           | 64   | 22   | —       |
| 00530120 | Self-locking model                            |  | 0 ÷ 150 | 0,05 | 0 ÷ 6  | $\frac{1}{128}$ | 40   | 15,5 | 1,5 x 2 |
| 00530121 | Self-locking model                            |  | 0 ÷ 150 | 0,02 | 0 ÷ 6  | 0.001           | 40   | 15,5 | 1,5 x 2 |
| 00530130 | Self-locking model with parallax-free readout |  | 0 ÷ 150 | 0,05 | 0 ÷ 6  | $\frac{1}{128}$ | 40   | 15,5 | 1,5 x 2 |
| 00530131 | Self-locking model with parallax-free readout |  | 0 ÷ 150 | 0,02 | 0 ÷ 6  | 0.001           | 40   | 15,5 | 1,5 x 2 |

### Optional Accessories

- 00560013 Depth measuring foot (also see page B-24)
- 0051610365 Magnetic magnifying glass, 3x magnification



DIN 862  
(Style 1AN-2)  
NF E 11-091



Satin-chrome scale  
background;  
main scale  
slightly set back for wear  
protection



See page B-2



Hardened  
stainless steel



Suited  
plastic case



Identification  
number



Inspection report  
with a declaration  
of conformity

## Magnetic Magnifying Glass

Can be mounted on calipers and the like for easier vernier reading.



Plastic  
pocket bag



2 permanent  
magnets



0051610365



3x magnification





 DIN 862 and factory standard

 See table

 0,01 mm  
0.0005 in

 LCD, 8,5 mm

 Floating zero

 Display lock

 mm / in conversion

 Scale with incremental divisions, magnetic

 > 1,5 m / s

 RS232  
opto-coupled,  
mono- and  
bi-directional

 Hardened steel jaws for external dimensions. Also with TiN coating, thickness to 7 mm. Tungsten carbide inserts for internal dimensions, 5 mm dia. Beam with light alloy hollow section, supported by hardened stainless steel rods.

 3V lithium battery, CR 2032

 ≈ 1,5 a  
(≈ 3300 h / a)

 5°C to 40°C

 -10°C to 60°C

 IP40  
(IEC 60529)

 EN 50081-1  
EN 50082-1

 Shipping packaging

 Identification number

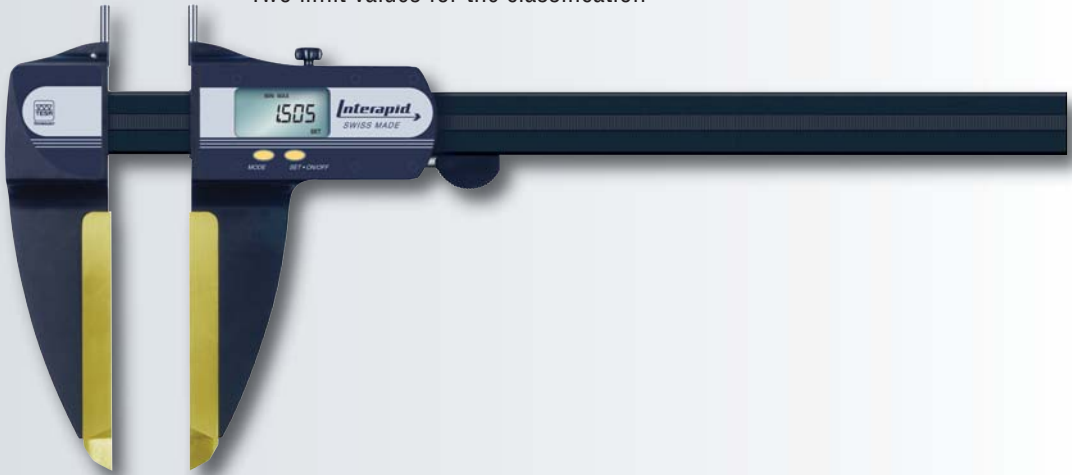
 Inspection report for models up to 1500 mm

 Declaration of conformity

## INTERAPID Light

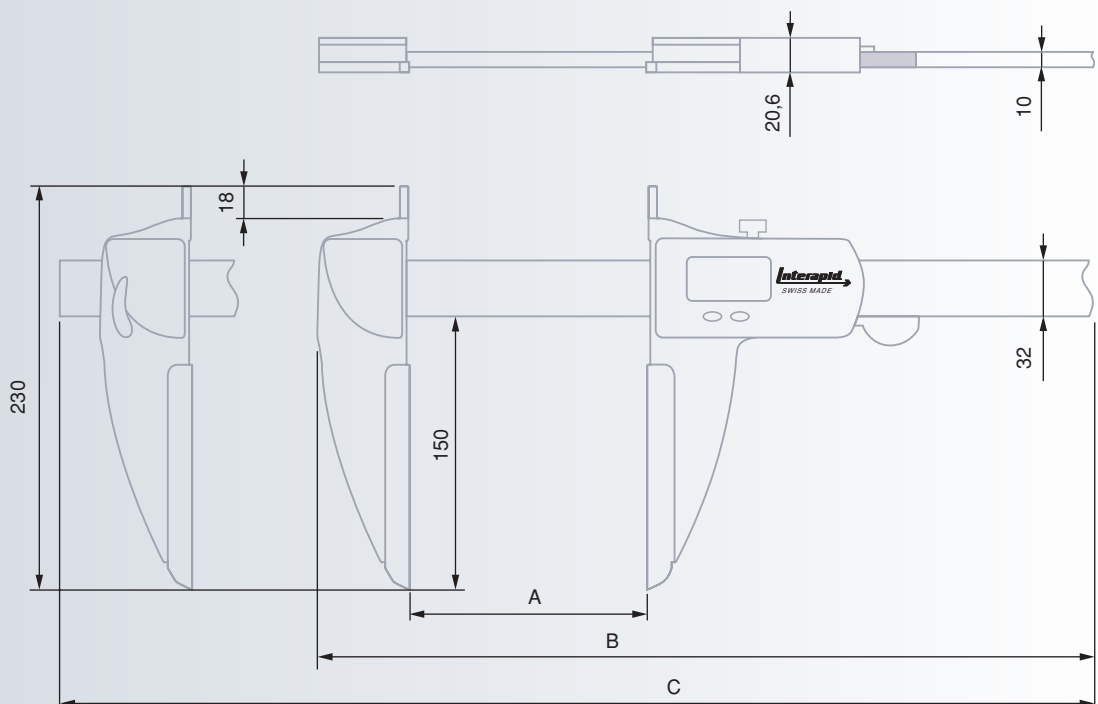
### Measuring functions

- Zero setting
- Metric/Inch conversion
- Hold function for displayed value
- OPTO-RS data transfer, mono- and bi-directional
- Two adjustable points of origin (Ref I / Ref II)
- PRESET function
- MIN/MAX mode
- Two limit values for the classification



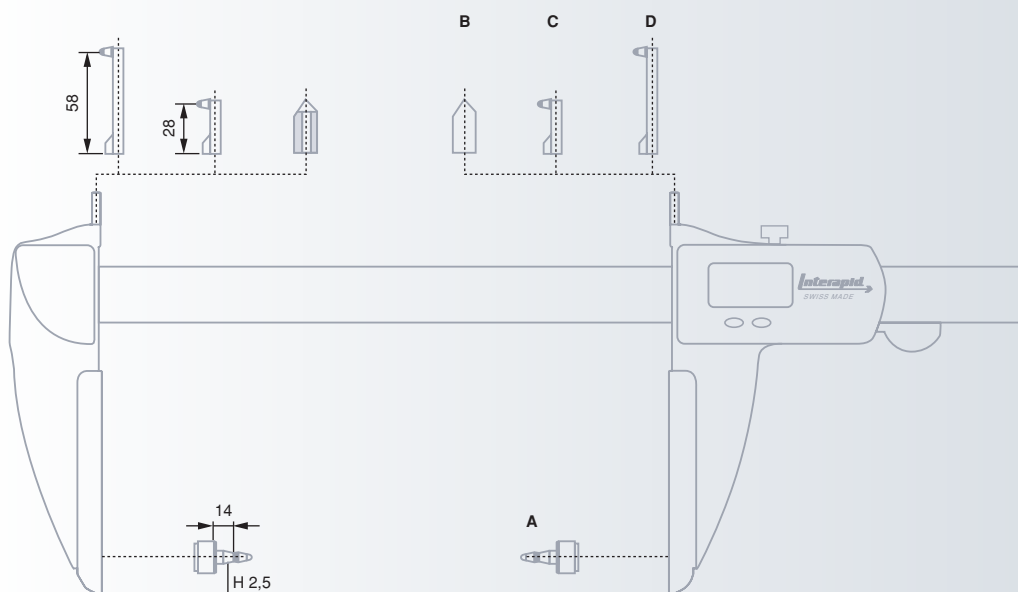
| No       |                 |      |  |  |  |  |  |  |
|----------|-----------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|          |                 |      | μm                                                                                  | μm                                                                                  | A mm                                                                                 | B fixed                                                                               | C movable                                                                             | kg                                                                                    |
| 00590061 | INTERAPID Light | 300  | 30                                                                                  | 20                                                                                  | 330                                                                                  | 618                                                                                   | —                                                                                     | 1,1                                                                                   |
| 00590062 | INTERAPID Light | 600  | 40                                                                                  | 20                                                                                  | 630                                                                                  | 918                                                                                   | —                                                                                     | 1,3                                                                                   |
| 00590063 | INTERAPID Light | 1000 | 60                                                                                  | 20                                                                                  | 1025                                                                                 | —                                                                                     | 1306                                                                                  | 1,6                                                                                   |
| 00590064 | INTERAPID Light | 1500 | 150                                                                                 | 20                                                                                  | 1525                                                                                 | —                                                                                     | 1806                                                                                  | 2                                                                                     |
| 00590065 | INTERAPID Light | 2000 | 250                                                                                 | 30                                                                                  | 2040                                                                                 | —                                                                                     | 2306                                                                                  | 2,3                                                                                   |
| 00590066 | INTERAPID Light | 2500 | 350                                                                                 | 30                                                                                  | 2545                                                                                 | —                                                                                     | 2806                                                                                  | 2,6                                                                                   |
| 00590067 | INTERAPID Light | 3000 | 450                                                                                 | 40                                                                                  | 3050                                                                                 | —                                                                                     | 3306                                                                                  | 3                                                                                     |

Models 300 and 600 mm with a fixed jaw (left), any other model with a movable one.



## Standard Accessories

| Nº                                   |   |                                                                             |
|--------------------------------------|---|-----------------------------------------------------------------------------|
| 00560095                             | A | Insert-holder with a M2,5 thread                                            |
| 00560096                             | B | 60° conical steel pin, hardened steel for measuring centre distances >10 mm |
| 00560097                             | C | Holder for dial gauge inserts used for groove measurement, L = 28 mm        |
| 00560098                             | D | Holder for dial gauge inserts used for groove measurement, L = 58 mm        |
| 00560099                             |   | Wooden case for INTERAPID Light 300 mm                                      |
| 00560100                             |   | Wooden case for INTERAPID Light 600 mm                                      |
| 00560101                             |   | Wooden case for INTERAPID Light 1000 mm                                     |
| 00560102                             |   | Wooden case for INTERAPID Light 1500 mm                                     |
| 01961000                             |   | 3V lithium battery, 190 mAh, type CR 2032                                   |
| For connecting cables, see section A |   |                                                                             |





DIN 862  
(Style E-ZS/B-ZS)

See table

0,01 mm  
0.0005 in

LCD, 7 mm

Floating zero

Display  
lock

mm / in  
conversion

See page B-2

Steel scale with  
incremental  
divisions, magnetic

> 1,8 m / s

RS232  
opto-coupled,  
mono- and  
bi-directional

Hardened  
stainless steel

3V lithium  
battery, CR 2032

≈ 1,5 a  
(≈ 2000 h / a)

Idle mode  
after 10 min.,  
automatic switch  
off after 2 h.

10°C to 40°C

-10°C to 60°C

100%

IP67  
(IEC 60529)

EN 50081-1  
EN 50082-1

Wooden or  
plastic case  
depending on  
the model

Identification  
number

Inspection  
report with a  
declaration of  
conformity

## TESA IP67

*Models with rounded measuring faces  
for internal dimensions*



No

mm

in

A mm

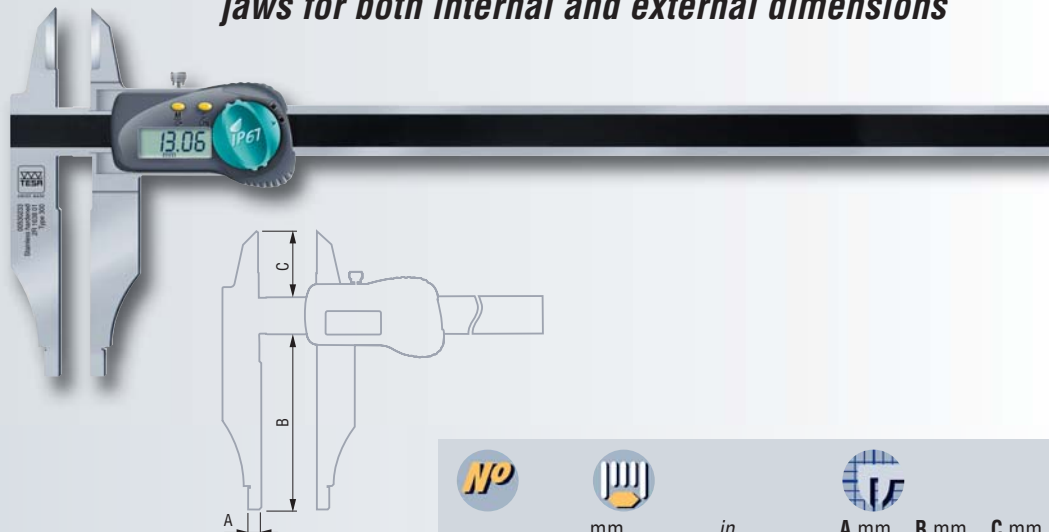
B mm

|          |          |        |    |     |
|----------|----------|--------|----|-----|
| 00530221 | 0 ÷ 200  | 0 ÷ 8  | 5  | 80  |
| 00530222 | 0 ÷ 250  | 0 ÷ 10 | 5  | 80  |
| 00530223 | 0 ÷ 300  | 0 ÷ 12 | 5  | 90  |
| 00530224 | 0 ÷ 500  | 0 ÷ 20 | 10 | 150 |
| 00530225 | 0 ÷ 600  | 0 ÷ 24 | 10 | 150 |
| 00530226 | 0 ÷ 800  | 0 ÷ 32 | 10 | 150 |
| 00530227 | 0 ÷ 1000 | 0 ÷ 39 | 10 | 150 |

Optional Accessory

01961000 3V lithium battery, 190 mAh, type CR 2032  
For connecting cables, see section A

*Models with rounded measuring faces and knife-edge  
jaws for both internal and external dimensions*



No

mm

in

A mm

B mm

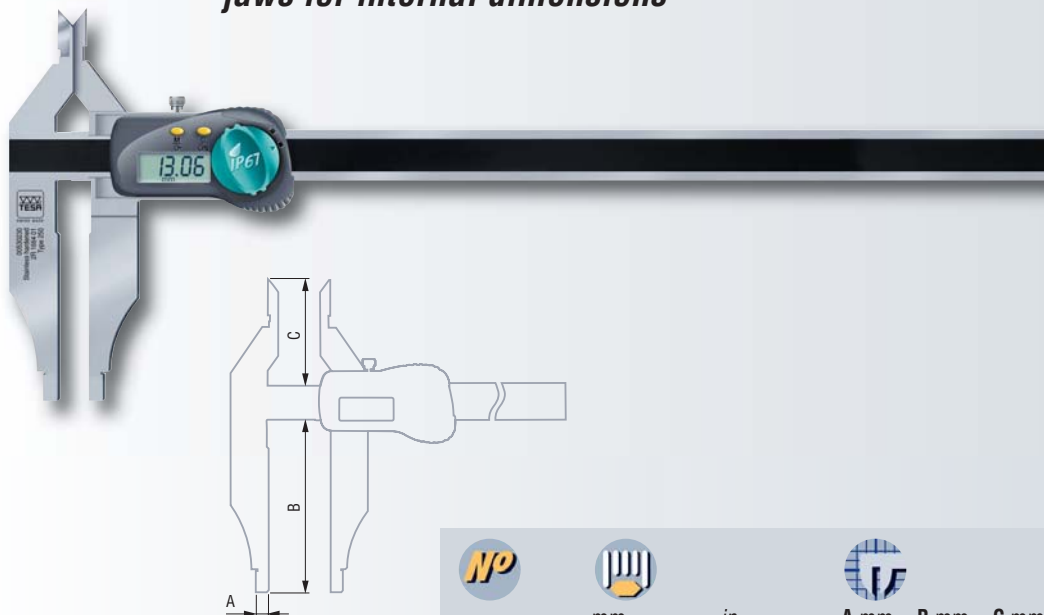
C mm

|          |          |        |    |     |    |
|----------|----------|--------|----|-----|----|
| 00530231 | 0 ÷ 200  | 0 ÷ 8  | 5  | 80  | 30 |
| 00530232 | 0 ÷ 250  | 0 ÷ 10 | 5  | 80  | 37 |
| 00530233 | 0 ÷ 300  | 0 ÷ 12 | 5  | 90  | 37 |
| 00530234 | 0 ÷ 500  | 0 ÷ 20 | 10 | 150 | 60 |
| 00530235 | 0 ÷ 600  | 0 ÷ 24 | 10 | 150 | 60 |
| 00530236 | 0 ÷ 800  | 0 ÷ 32 | 10 | 150 | 56 |
| 00530237 | 0 ÷ 1000 | 0 ÷ 39 | 10 | 150 | 56 |

Optional Accessory

01961000 3V lithium battery, 190 mAh, type CR 2032  
For connecting cables, see section A

**Model with rounded measuring faces and knife-edge jaws for internal dimensions**



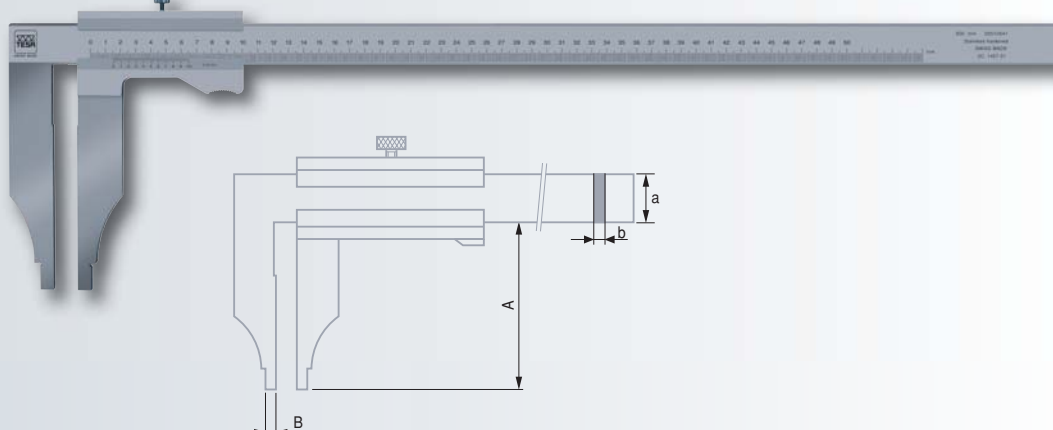
|                           |  |  |  |  |  |  |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>00530230</b>           |                                                                                   | 0 ÷ 250                                                                           | 0 ÷ 10                                                                            | 5                                                                                   | 80                                                                                  | 54                                                                                  |
| <i>Optional Accessory</i> |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| <b>01961000</b>           |                                                                                   | 3V lithium battery, 190 mAh, type CR 2032<br>For connecting cables, see section A |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

-  ✓
-  DIN 862  
(Style D-ZS)
-  0,01 mm  
0.0005 in
-  LCD, 7 mm
-  Floating zero
-  Display lock
-  mm / in  
conversion
-  See page B-2
-  Steel scale with  
incremental  
divisions, magnetic
-  > 1,8 m / s
-  RS232  
opto-coupled,  
mono- and  
bi-directional
-  Hardened  
stainless steel
-  3V lithium  
battery, CR 2032
-  ≈ 1,5 a  
(≈ 2000 h / a)
-  Idle mode  
after 10 min.,  
automatic switch  
off after 2 h.
-  10°C to 40°C
-  -10°C to 60°C
-  100%
-  IP67  
(IEC 60529)
-  EN 50081-1  
EN 50082-1
-  Wooden case or  
plastic case  
depending on  
the model
-  No  
ID
-  Identification  
number  
Inspection  
report with a  
declaration of  
conformity



## Models with rounded measuring faces for internal dimensions

– Without fine adjust device



DIN 862  
(Style EN-2)  
NF E 11-091

Satin-chrome scale  
background;  
main scale  
slightly set back for  
wear protection

See page B-2

Hardened  
stainless steel

Wooden case or  
plastic case  
depending on  
the model

Identification  
number

Inspection report  
with a declaration  
of conformity

|                  |  | mm      | mm   | in     | in    | a    | b   | A   |
|------------------|--|---------|------|--------|-------|------|-----|-----|
| <b>00510509*</b> |  | 0 ÷ 200 | 0,02 | –      | –     | 17   | 3,5 | 80  |
| <b>00530509</b>  |  | 0 ÷ 200 | 0,02 | 0 ÷ 8  | 0.001 | 17   | 3,5 | 80  |
| <b>00510506</b>  |  | 0 ÷ 200 | 0,05 | –      | –     | 17   | 3,5 | 80  |
| <b>00510511</b>  |  | 0 ÷ 250 | 0,02 | –      | –     | 20   | 4   | 90  |
| <b>00510512</b>  |  | 0 ÷ 250 | 0,05 | –      | –     | 20   | 4   | 90  |
| <b>00510521</b>  |  | 0 ÷ 300 | 0,02 | –      | –     | 20   | 4   | 90  |
| <b>00530521</b>  |  | 0 ÷ 300 | 0,02 | 0 ÷ 12 | 0.001 | 20   | 4   | 90  |
| <b>00510522</b>  |  | 0 ÷ 300 | 0,05 | –      | –     | 20   | 4   | 90  |
| <b>00510531</b>  |  | 0 ÷ 400 | 0,02 | –      | –     | 24,5 | 5   | 125 |
| <b>00530531</b>  |  | 0 ÷ 400 | 0,02 | 0 ÷ 15 | 0.001 | 24,5 | 5   | 125 |
| <b>00510541</b>  |  | 0 ÷ 500 | 0,02 | –      | –     | 28   | 6   | 150 |
| <b>00510542</b>  |  | 0 ÷ 500 | 0,05 | –      | –     | 28   | 6   | 150 |
| <b>00510551</b>  |  | 0 ÷ 600 | 0,02 | –      | –     | 28   | 6   | 150 |

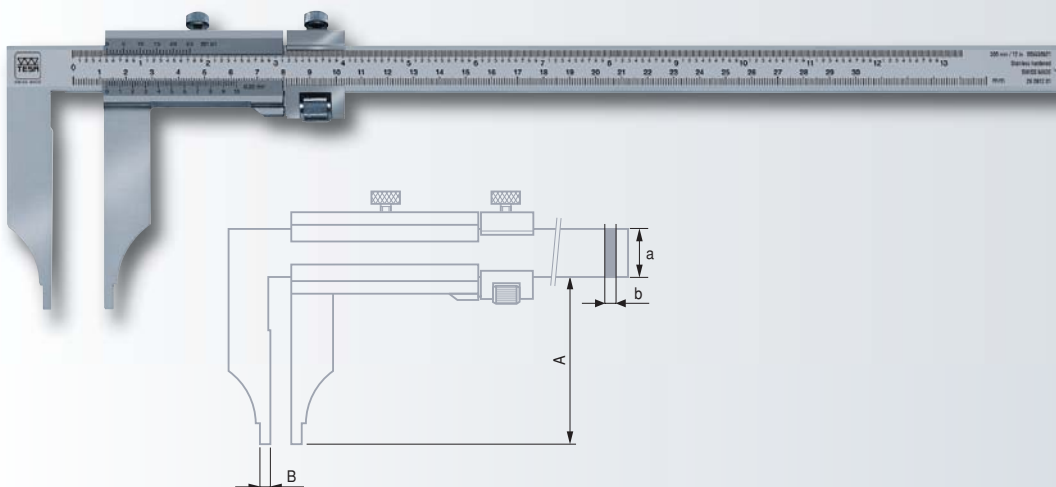
### Optional Accessory

**0051610365** Magnetic magnifying glass, 3x magnification

\* Provided with a stainless steel rule No. 0951750181, 200 mm long.

## Models with rounded measuring faces for internal dimensions

– With fine adjust device



DIN 862  
(Style EN-2F)  
NF E 11-091



Satin-chrome  
scale background;  
main scale  
slightly set back for  
wear protection



See page B-2



Hardened  
stainless steel



Wooden case or  
plastic case  
depending on  
the model



Identification  
number



Inspection report  
with a declaration  
of conformity

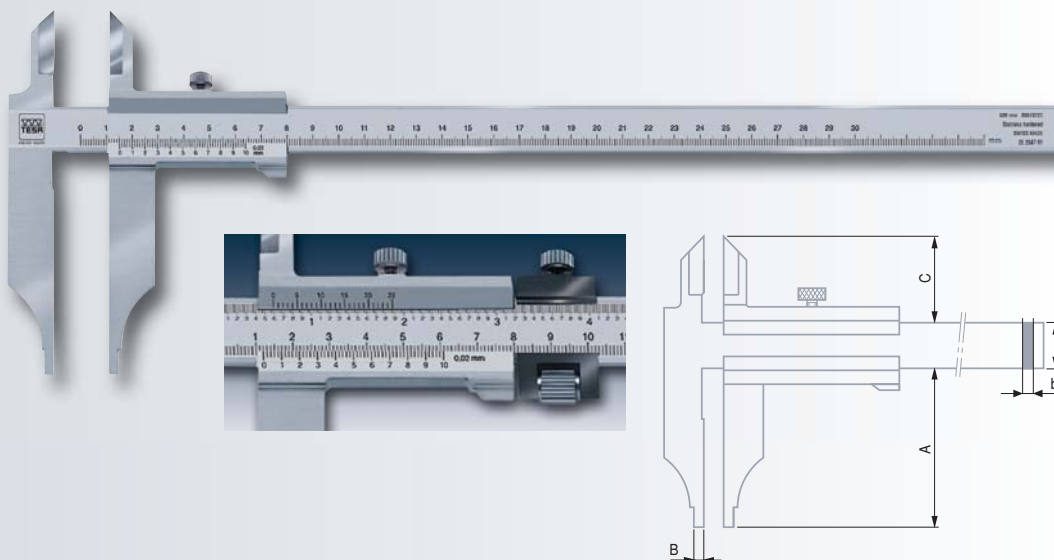
| No       |  |  |  |  |  mm |     | A   | B  |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|-----|----|
|          |                                                                                   |                                                                                   |                                                                                   |                                                                                   | a                                                                                     | b   |     |    |
| 00510601 | 0 ÷ 200                                                                           | 0,02                                                                              | —                                                                                 | —                                                                                 | 17                                                                                    | 3,5 | 80  | 5  |
| 00510611 | 0 ÷ 250                                                                           | 0,02                                                                              | —                                                                                 | —                                                                                 | 20                                                                                    | 4   | 90  | 5  |
| 00510621 | 0 ÷ 300                                                                           | 0,02                                                                              | —                                                                                 | —                                                                                 | 20                                                                                    | 4   | 90  | 5  |
| 00510641 | 0 ÷ 500                                                                           | 0,02                                                                              | —                                                                                 | —                                                                                 | 28                                                                                    | 6   | 150 | 10 |
| 00510651 | 0 ÷ 600                                                                           | 0,02                                                                              | —                                                                                 | —                                                                                 | 28                                                                                    | 6   | 150 | 10 |
| 00510661 | 0 ÷ 800                                                                           | 0,02                                                                              | —                                                                                 | —                                                                                 | 32                                                                                    | 8   | 150 | 10 |
| 00510671 | 0 ÷ 1000                                                                          | 0,02                                                                              | —                                                                                 | —                                                                                 | 32                                                                                    | 8   | 150 | 10 |
| 00510681 | 0 ÷ 1500                                                                          | 0,02                                                                              | —                                                                                 | —                                                                                 | 40                                                                                    | 8   | 300 | 15 |
| 00510691 | 0 ÷ 2000                                                                          | 0,02                                                                              | —                                                                                 | —                                                                                 | 40                                                                                    | 8   | 300 | 15 |

### Optional Accessory

0051610365 Magnetic magnifying glass, 3x magnification

## Models with knife-edge jaws and rounded measuring faces for both external and internal dimensions

– With or without fine adjust device



DIN 862  
(Style BN-2)  
NF E 11-091



Satin-chrome  
scale background;  
main scale  
slightly set back for  
wear protection



See page B-2



Hardened  
stainless steel



Wooden case  
or plastic case  
depending on  
the model



Identification  
number



Inspection report  
with a declaration  
of conformity



mm

mm

mm

in

in

a

b

A

B

C

### Without fine adjust device

|          |         |      |        |       |    |     |     |    |    |
|----------|---------|------|--------|-------|----|-----|-----|----|----|
| 00510701 | 0 ÷ 200 | 0,02 | –      | –     | 17 | 3,5 | 80  | 5  | 30 |
| 00530701 | 0 ÷ 200 | 0,02 | 0 ÷ 8  | 0.001 | 17 | 3,5 | 80  | 5  | 30 |
| 00510711 | 0 ÷ 250 | 0,02 | –      | –     | 20 | 4   | 80  | 5  | 38 |
| 00510721 | 0 ÷ 300 | 0,02 | –      | –     | 20 | 4   | 90  | 5  | 38 |
| 00530721 | 0 ÷ 300 | 0,02 | 0 ÷ 12 | 0.001 | 20 | 4   | 90  | 5  | 38 |
| 00510722 | 0 ÷ 300 | 0,05 | –      | –     | 20 | 4   | 90  | 5  | 38 |
| 00510741 | 0 ÷ 500 | 0,02 | –      | –     | 28 | 6   | 150 | 10 | 60 |
| 00530741 | 0 ÷ 500 | 0,02 | 0 ÷ 20 | 0.001 | 28 | 6   | 150 | 10 | 60 |
| 00510751 | 0 ÷ 600 | 0,02 | –      | –     | 28 | 6   | 150 | 10 | 60 |

### With fine adjust device

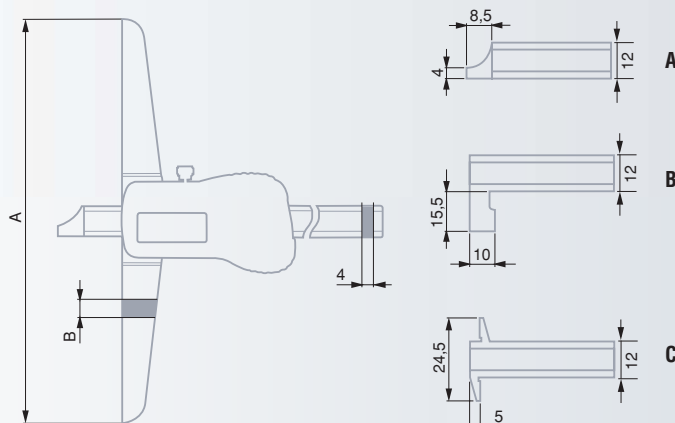
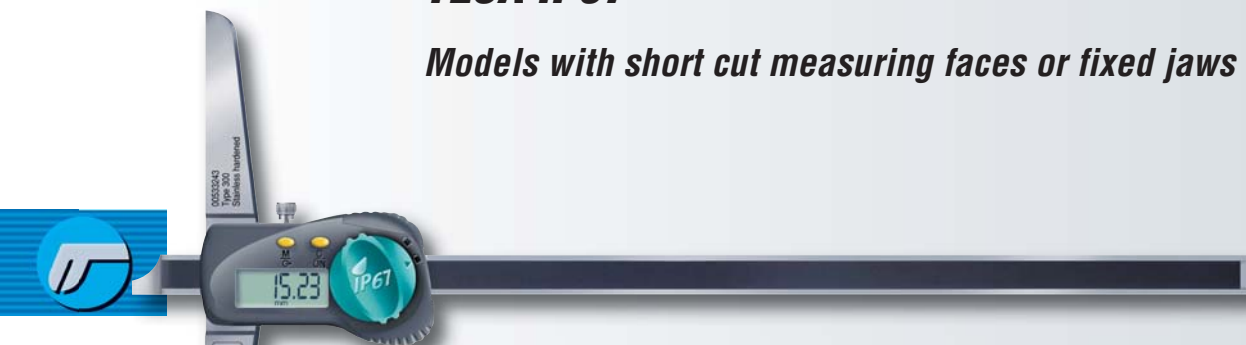
|          |          |      |        |       |    |     |     |    |    |
|----------|----------|------|--------|-------|----|-----|-----|----|----|
| 00510801 | 0 ÷ 200  | 0,02 | –      | –     | 17 | 3,5 | 80  | 5  | 30 |
| 00510821 | 0 ÷ 300  | 0,02 | –      | –     | 20 | 4   | 90  | 5  | 38 |
| 00530821 | 0 ÷ 300  | 0,02 | 0 ÷ 11 | 0.001 | 20 | 4   | 90  | 5  | 38 |
| 00510822 | 0 ÷ 300  | 0,05 | –      | –     | 20 | 4   | 90  | 5  | 38 |
| 00510841 | 0 ÷ 500  | 0,02 | –      | –     | 28 | 6   | 150 | 10 | 60 |
| 00530841 | 0 ÷ 500  | 0,02 | 0 ÷ 20 | 0.001 | 28 | 6   | 150 | 10 | 60 |
| 00510861 | 0 ÷ 800  | 0,02 | –      | –     | 32 | 8   | 150 | 10 | 56 |
| 00510871 | 0 ÷ 1000 | 0,02 | –      | –     | 32 | 8   | 150 | 10 | 56 |

### Optional Accessory

|            |                                             |
|------------|---------------------------------------------|
| 0051610365 | Magnetic magnifying glass, 3x magnification |
|------------|---------------------------------------------|

## TESA IP67

Models with short cut measuring faces or fixed jaws



|--|--|--|--|--|

### Models A with a short cut measuring face

|          |         |        |     |   |
|----------|---------|--------|-----|---|
| 00530241 | 0 ÷ 200 | 0 ÷ 8  | 100 | 8 |
| 00530242 | 0 ÷ 250 | 0 ÷ 10 | 100 | 8 |
| 00530243 | 0 ÷ 300 | 0 ÷ 12 | 150 | 8 |
| 00530244 | 0 ÷ 500 | 0 ÷ 20 | 150 | 8 |

### Models B with one fixed jaw

|          |         |        |     |   |
|----------|---------|--------|-----|---|
| 00530245 | 0 ÷ 300 | 0 ÷ 12 | 150 | 8 |
| 00530246 | 0 ÷ 500 | 0 ÷ 20 | 150 | 8 |

### Models C with two fixed jaws

|          |         |        |     |   |
|----------|---------|--------|-----|---|
| 00530247 | 0 ÷ 300 | 0 ÷ 12 | 150 | 8 |
|----------|---------|--------|-----|---|

### Optional Accessories

|          |                                                                                   |  |  |  |
|----------|-----------------------------------------------------------------------------------|--|--|--|
|          | 200, 300 or 400 mm removable bridge<br>(see page B-19)                            |  |  |  |
| 01961000 | 3V lithium battery, 190 mAh, type CR 2032<br>For connecting cables, see section A |  |  |  |



DIN 862  
(Style C-ZS)



See table



0,01 mm  
0.0005 in



LCD, 7 mm



Floating zero



Display  
lock



mm / in  
conversion



See page B-2



Glass scale with  
incremental divi-  
sions, magnetic



> 1,8 m / s



RS232 opto-  
coupled, mono-  
and bi-directional



Hardened  
stainless  
steel



3V lithium battery,  
CR 2032



≈ 1,5 a  
(≈ 2000 h / a)



Idle mode  
after 10 min.,  
automatic switch  
off after 2 h.



10°C to 40°C



-10°C to 60°C



100%



IP67  
(IEC 60529)



EN 50081-1  
EN 50082-1



Wooden case  
or plastic case  
depending on  
the model

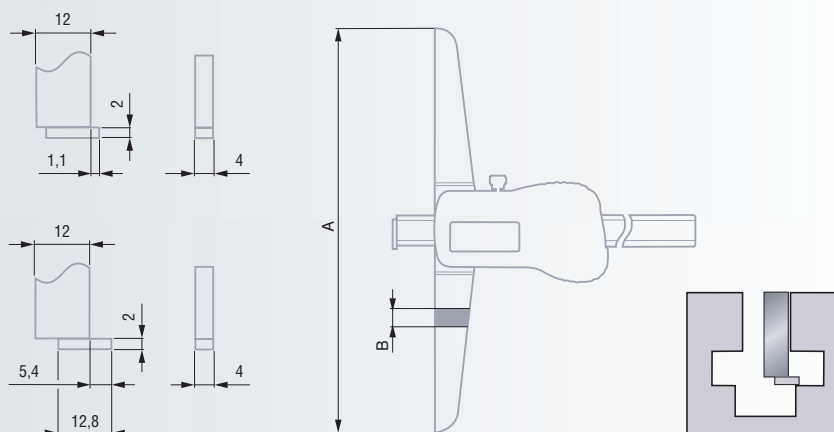
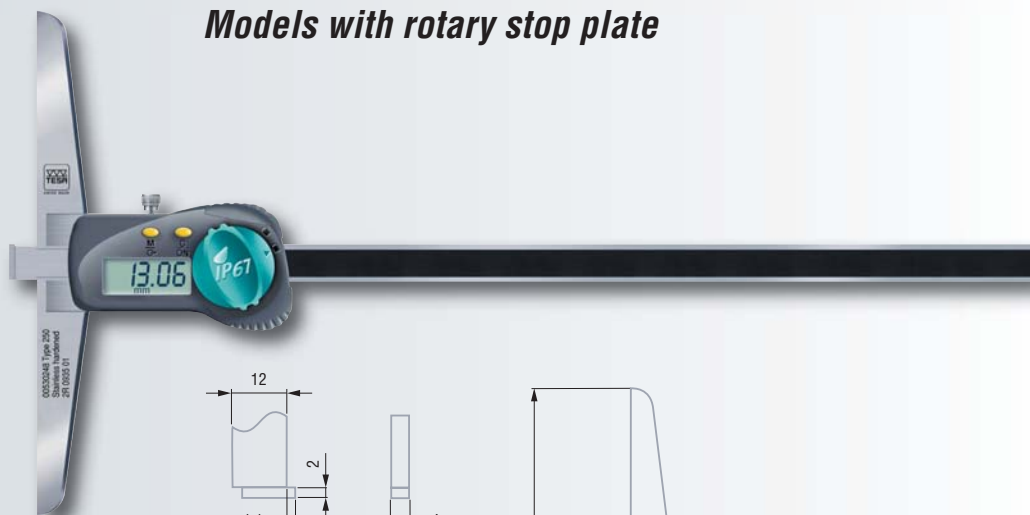


Identification  
number



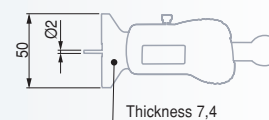
Inspection report  
with a declaration  
of conformity

## Models with rotary stop plate



|  |  |  |  |  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                    | mm                                                                                 | in                                                                                 | A mm                                                                                 | B mm                                                                                 |
| 00530248                                                                           | 0 ÷ 250                                                                            | 0 ÷ 10                                                                             | 150                                                                                  | 8,5                                                                                  |
| 00530249                                                                           | 0 ÷ 350                                                                            | 0 ÷ 14                                                                             | 150                                                                                  | 8,5                                                                                  |
| 00530250                                                                           | 0 ÷ 500                                                                            | 0 ÷ 20                                                                             | 150                                                                                  | 8,5                                                                                  |
| Optional Accessories                                                               |                                                                                    |                                                                                    |                                                                                      |                                                                                      |
|                                                                                    | 200, 300 or 400 mm removable bridge (also see page B-19)                           |                                                                                    |                                                                                      |                                                                                      |
| 01961000                                                                           | 3V lithium battery, 190 mAh, type CR 2032                                          |                                                                                    |                                                                                      |                                                                                      |
|                                                                                    | For connecting cables, see section A                                               |                                                                                    |                                                                                      |                                                                                      |

## Small-sized caliper with measuring tip

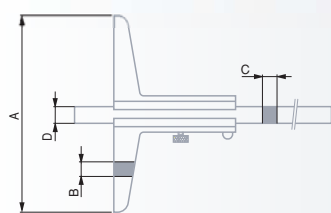
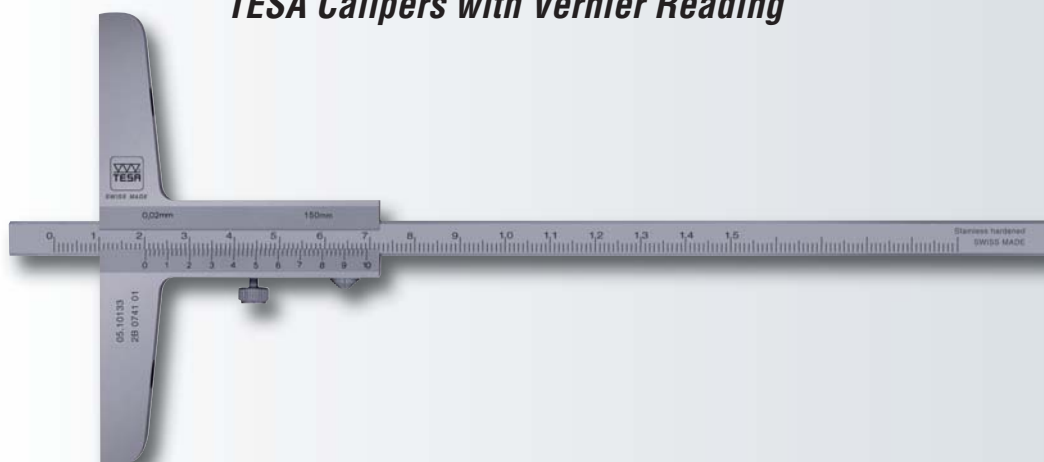


|  |  |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                     | mm                                                                                  | in                                                                                  |
| <b>00530251</b>                                                                     | 0 ÷ 25                                                                              | 0 ÷ 1                                                                               |
| <i>Optional Accessory</i>                                                           |                                                                                     |                                                                                     |
| <b>01961000</b>                                                                     | 3V lithium battery, 190 mAh, type CR 2032                                           |                                                                                     |
|                                                                                     | For connecting cables, see section A                                                |                                                                                     |

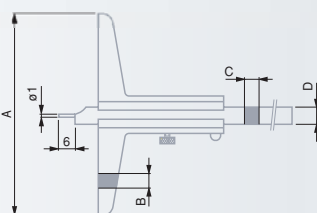




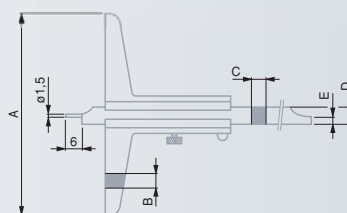
## TESA Calipers with Vernier Reading



A



B



C



mm

mm

mm

A

B

C

D

E

### Models A with a flat measuring face

|          |         |      |     |     |   |    |   |
|----------|---------|------|-----|-----|---|----|---|
| 00510133 | 0 ÷ 150 | 0,02 | 100 | 7,5 | 3 | 8  | — |
| 00510134 | 0 ÷ 150 | 0,05 | 100 | 7,5 | 3 | 8  | — |
| 00510143 | 0 ÷ 250 | 0,02 | 100 | 7,5 | 3 | 8  | — |
| 00510144 | 0 ÷ 250 | 0,05 | 100 | 7,5 | 3 | 8  | — |
| 00510163 | 0 ÷ 500 | 0,02 | 100 | 8,5 | 4 | 12 | — |
| 00510164 | 0 ÷ 500 | 0,05 | 100 | 8,5 | 4 | 12 | — |
| 00510173 | 0 ÷ 600 | 0,02 | 150 | 8,5 | 4 | 12 | — |

### Model B with a steel tip

|           |        |      |    |     |   |   |   |
|-----------|--------|------|----|-----|---|---|---|
| 00510111* | 0 ÷ 80 | 0,02 | 50 | 7,5 | 3 | 8 | — |
|-----------|--------|------|----|-----|---|---|---|

### Models C with both a short cut measuring face and steel tip. Convertible models

|          |         |      |     |     |   |   |     |
|----------|---------|------|-----|-----|---|---|-----|
| 00510123 | 0 ÷ 150 | 0,02 | 100 | 7,5 | 3 | 8 | 3,5 |
| 00510124 | 0 ÷ 150 | 0,05 | 100 | 7,5 | 3 | 8 | 3,5 |
| 00510125 | 0 ÷ 250 | 0,02 | 100 | 7,5 | 3 | 8 | 4   |
| 00510126 | 0 ÷ 250 | 0,05 | 100 | 7,5 | 3 | 8 | 4   |

### Optional Accessories

|            |                                                     |
|------------|-----------------------------------------------------|
| 0051610365 | Magnetic magnifying glass, 3x magnification         |
|            | 200, 300 or 400 mm removable bridge (see page B-19) |

\* The removable bridges available as an option is not convenient for this model.



DIN 862  
(Style C-2)  
NF E 11-096



Satin-chrome  
scale background;  
main scale  
slightly set back for  
wear protection



See page B-2



Hardened  
stainless steel



Plastic case



Identification  
number



Inspection report  
with a declaration  
of conformity



DIN 862  
(Style C-2)  
NF E 11-096



Satin-chrome  
scale background;  
main scale  
slightly set back for  
wear protection



See page B-2



Hardened  
stainless steel



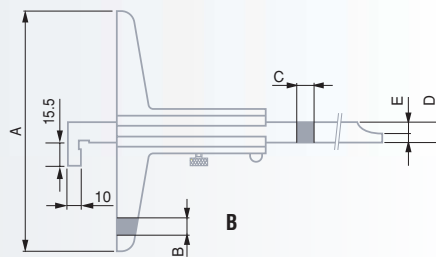
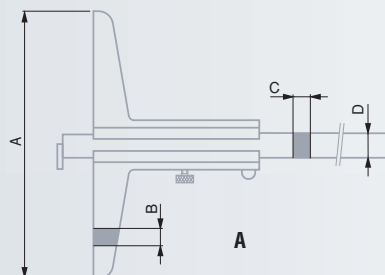
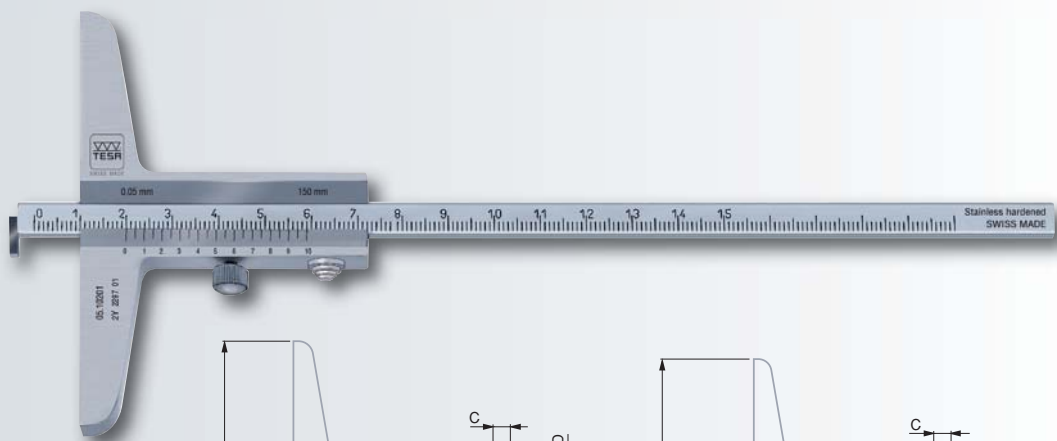
Plastic case



Identification  
number



Inspection report  
with a declaration  
of conformity



mm

A

B

C

D

E

## Models A with rotary stop plate

|          |         |      |     |     |   |    |   |
|----------|---------|------|-----|-----|---|----|---|
| 00510202 | 0 ÷ 150 | 0,02 | 130 | 8,5 | 4 | 12 | — |
| 00510201 | 0 ÷ 150 | 0,05 | 130 | 8,5 | 4 | 12 | — |
| 00510212 | 0 ÷ 250 | 0,02 | 130 | 8,5 | 4 | 12 | — |
| 00510211 | 0 ÷ 250 | 0,05 | 130 | 8,5 | 4 | 12 | — |
| 00510222 | 0 ÷ 500 | 0,02 | 130 | 8,5 | 4 | 12 | — |

## Models B with both a fixed stop plate and short cut measuring face. Convertible models

|          |         |      |     |     |   |    |     |
|----------|---------|------|-----|-----|---|----|-----|
| 00510175 | 0 ÷ 150 | 0,02 | 100 | 7,5 | 3 | 8  | 3,5 |
| 00510177 | 0 ÷ 250 | 0,02 | 130 | 8,5 | 4 | 12 | 4   |
| 00510179 | 0 ÷ 300 | 0,02 | 150 | 8,5 | 4 | 12 | 4   |
| 00510181 | 0 ÷ 500 | 0,02 | 150 | 8,5 | 4 | 12 | 4   |

## Optional Accessories

|            |                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------|
| 0051610365 | Magnetic magnifying glass, 3x magnification<br>200, 300 or 400 mm removable bridge (see the table below) |
|------------|----------------------------------------------------------------------------------------------------------|

## Removable Bridge



A mm

B mm

C mm



mm



mm



μm

|          |                  |     |   |    |         |      |    |
|----------|------------------|-----|---|----|---------|------|----|
| 00560103 | Removable bridge | 200 | 8 | 10 | ± 0,005 | 0,02 | 8  |
| 00560104 | Removable bridge | 300 | 8 | 16 | ± 0,005 | 0,02 | 10 |
| 00560105 | Removable bridge | 400 | 8 | 16 | ± 0,005 | 0,03 | 10 |

Each bridge comes with suited attachment.



Factory  
standard



See table



Suited  
carrying case



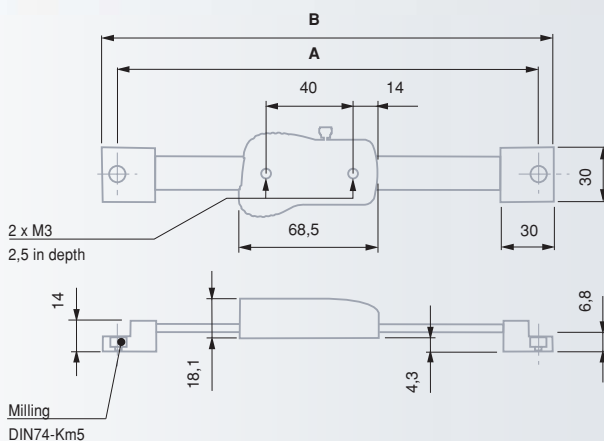
Identification  
number



Inspection report  
with a declaration  
of conformity

## Horizontal or Vertical Scale Unit

Lets you measure and position any assembly on fixtures, presetting devices for tooling or machines. Flexible mounting for use in any position.



| No                        | mm                                        | in     | A mm | B mm |
|---------------------------|-------------------------------------------|--------|------|------|
| 00530271                  | 0 ÷ 150                                   | 0 ÷ 6  | 265  | 278  |
| 00530273                  | 0 ÷ 300                                   | 0 ÷ 12 | 415  | 428  |
| 00530274                  | 0 ÷ 600                                   | 0 ÷ 24 | 725  | 738  |
| 00530275                  | 0 ÷ 1000                                  | 0 ÷ 40 | 1135 | 1148 |
| <i>Optional Accessory</i> |                                           |        |      |      |
| 01961000                  | 3V lithium battery, 190 mAh, type CR 2032 |        |      |      |
|                           | For connecting cables, see section A      |        |      |      |

- ✓
- Factory standard
- See table
- 0,01 mm  
0.0005 in
- LCD, 7 mm
- Floating zero
- Display lock
- mm / in conversion
- See page B-2
- Steel scale with incremental divisions, magnetic
- > 1,8 m / s
- RS232 opto-coupled, mono- and bi-directional
- Hardened stainless steel
- 3V lithium battery, CR 2032
- ≈ 1,5 a  
(≈ 2000 h / a)
- Idle mode after 10 min., automatic switch off after 2 h.
- 10°C to 40°C
- 10°C to 60°C
- 100%
- IP67 (IEC 60529)
- EN 50081-1  
EN 50082-1
- Suitable carrying case
- Identification number
- Inspection report with a declaration of conformity



Factory standard



Satin-chrome scale background; main scale slightly set back for wear protection.



Hardened stainless steel



Wooden case



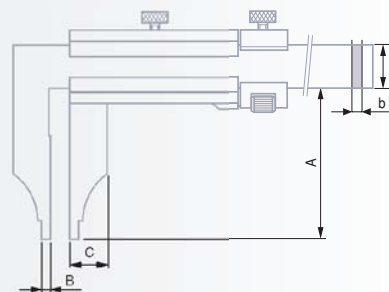
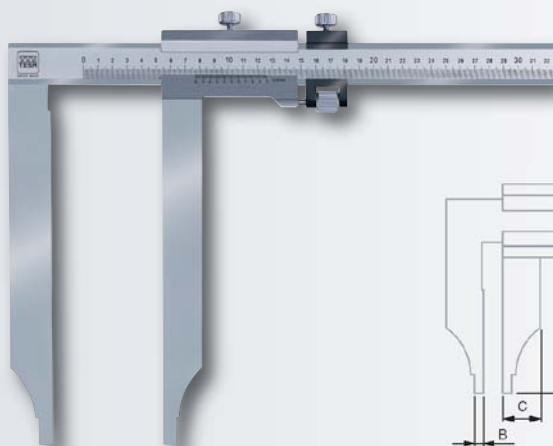
Identification number



Inspection report with a declaration of conformity

## TESA Calipers

– With extra long jaws and fine adjust device



mm

|          | mm       | mm   | a  | b | A   | B  | C  |
|----------|----------|------|----|---|-----|----|----|
| 00510921 | 0 ÷ 500  | 0,02 | 28 | 6 | 250 | 10 | 30 |
| 00510922 | 0 ÷ 500  | 0,05 | 28 | 6 | 250 | 10 | 30 |
| 00510941 | 0 ÷ 1000 | 0,02 | 32 | 8 | 300 | 10 | 30 |
| 00510942 | 0 ÷ 1000 | 0,05 | 32 | 8 | 300 | 10 | 30 |

Optional Accessory

0051610365 Magnetic magnifying glass, 3x magnification



NF E 11-096



Satin-chrome scale background; main scale slightly set back for wear protection.



Hardened stainless steel



Wooden case

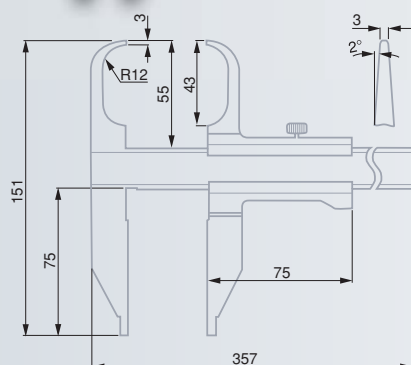
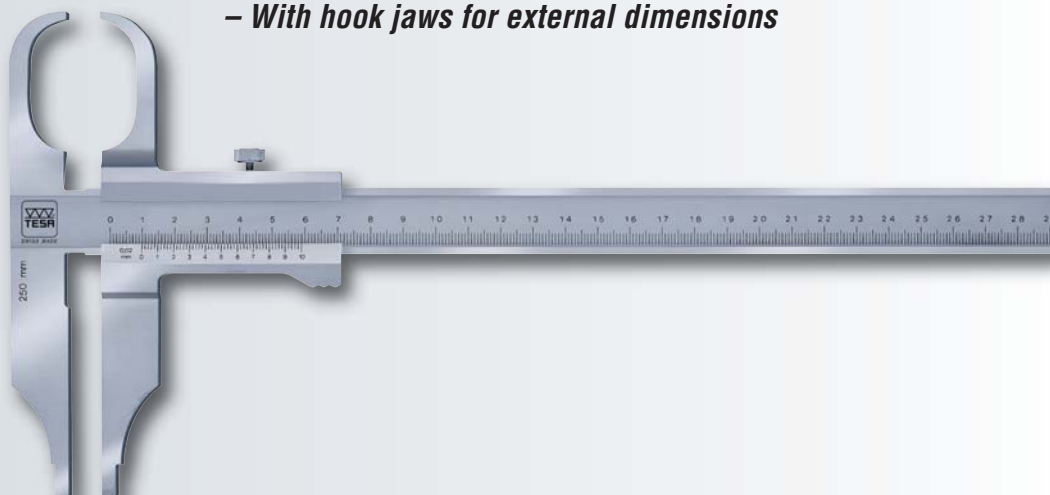


Identification number



Declaration of conformity

– With hook jaws for external dimensions



mm

mm

00510911

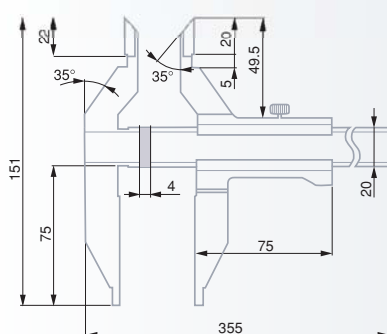
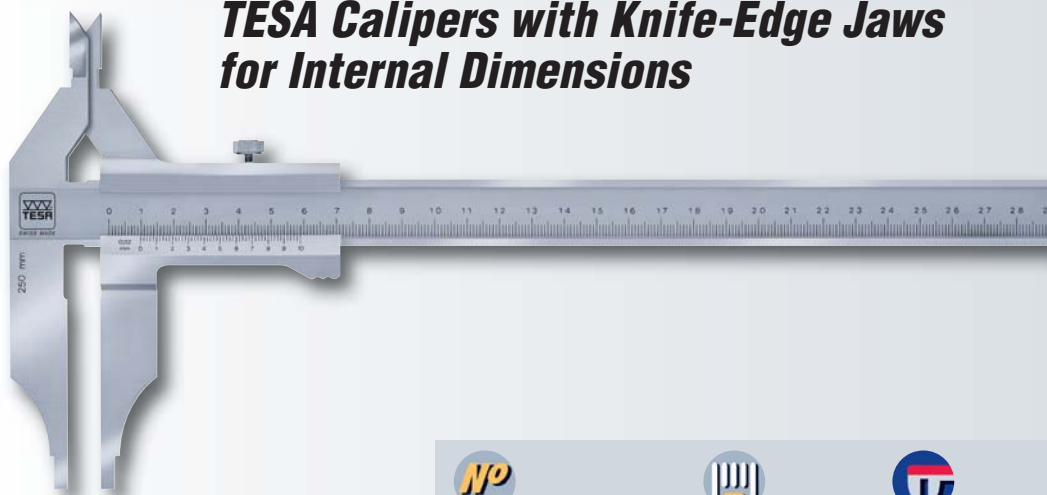
0 ÷ 250

0,02

Optional Accessory

0051610365 Magnetic magnifying glass, 3x magnification

## TESA Calipers with Knife-Edge Jaws for Internal Dimensions



00510915



0 ÷ 250



0,02

Optional Accessory

0051610365 Magnetic magnifying glass, 3x magnification



DIN 862  
(Style DN-2)  
NF E 11-091



Satin-chrome  
scale background;  
main scale  
slightly set back for wear  
protection.



Hardened  
stainless steel



Wooden case



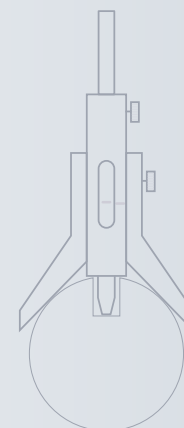
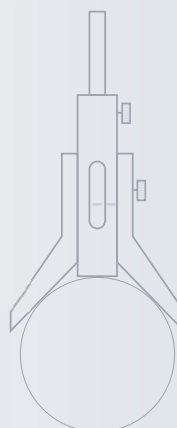
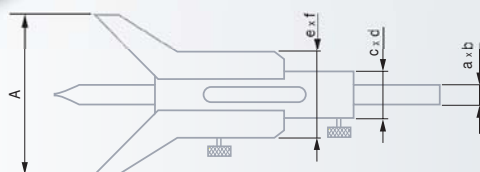
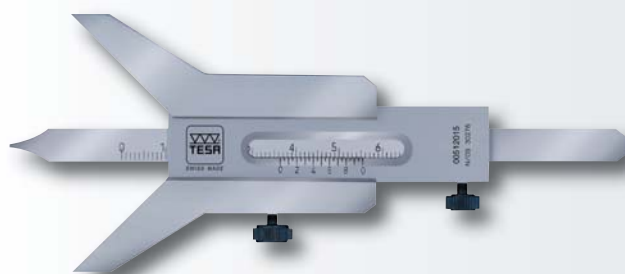
Identification  
number



Inspection report  
with a declaration  
of conformity

## TESA Calipers with Vee Bridge

Made to measure groove and slot depths on cylindrical shafts.



NF E 11-096



Satin-chrome  
scale background;  
main scale  
slightly set back for wear  
protection.



Hardened  
stainless steel



Wooden case



Identification  
number



Inspection report  
with a declaration  
of conformity



00512015



5 ÷ 80



0,05



a b

c

d

e

f

A

00512015 5 ÷ 80 0,05 8 2 18 5 32 10 60

00512016 6 ÷ 120 0,05 8 2 18 5 34 10 90

00512017 7 ÷ 160 0,05 10 2 21,5 5 42 10 120

Optional Accessory

0051610365 Magnetic magnifying glass, 3x magnification





Satin-chrome scale background; main scale slightly set back for wear protection.



Hardened stainless steel



Wooden case



Identification number



Inspection report with a declaration of conformity

## TESA Calipers for Turned Grooves

Specially designed for measuring groove or slot diameters, e.g. on safety rings.



| No       | mm       | mm   | mm | mm | A   | B   | C   |
|----------|----------|------|----|----|-----|-----|-----|
| 00510371 | 10 ÷ 160 | 0,05 | 16 | 3  | 0,9 | 3   | 25  |
| 00510375 | 20 ÷ 160 | 0,05 | 16 | 3  | 2   | 5   | 40  |
| 00510383 | 26 ÷ 200 | 0,02 | 16 | 3  | 3   | 7   | 60  |
| 00510385 | 26 ÷ 200 | 0,05 | 16 | 3  | 3   | 7   | 60  |
| 00510387 | 30 ÷ 250 | 0,02 | 20 | 4  | 4   | 8,5 | 80  |
| 00510393 | 35 ÷ 300 | 0,02 | 20 | 4  | 5   | 10  | 100 |

### Optional Accessory

0051610365 Magnetic magnifying glass, 3x magnification



Each slider with fine adjust device



Hardened stainless steel. Tungsten carbide coated measuring faces



Wooden case



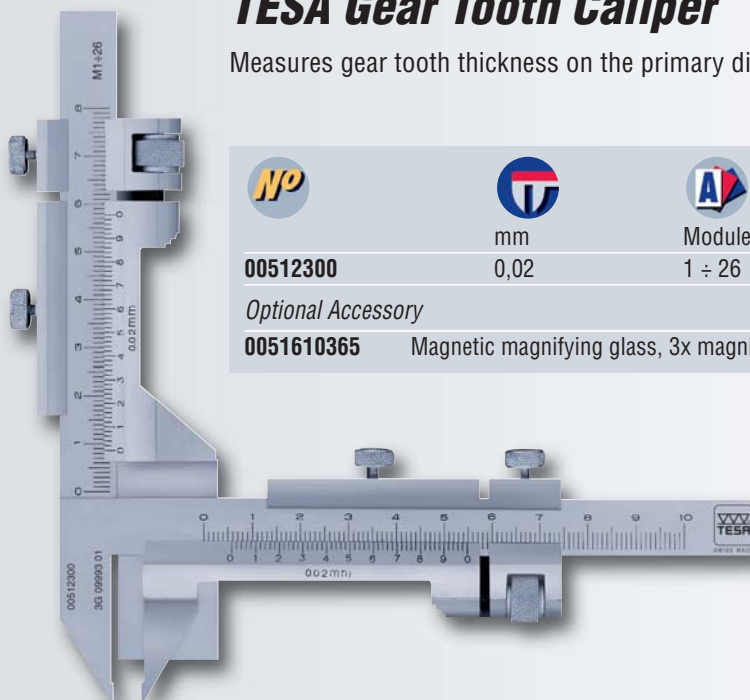
Identification number



Declaration of conformity

## TESA Gear Tooth Caliper

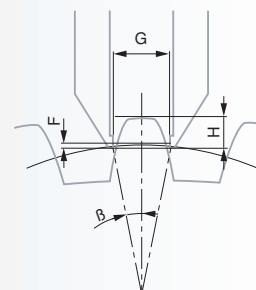
Measures gear tooth thickness on the primary diameter.



| No       | mm   | Module |
|----------|------|--------|
| 00512300 | 0,02 | 1 ÷ 26 |

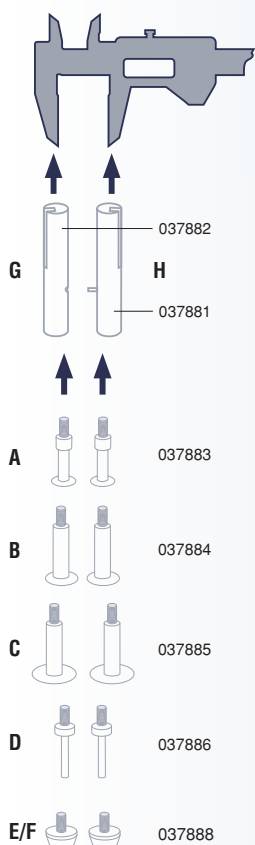
### Optional Accessory

0051610365 Magnetic magnifying glass, 3x magnification



## Brown & Sharpe Accessory Sets CENTERLINE

Each set includes practical accessories for measuring undercuts, grooves, slots, centre distances of bores, etc. – Fits all calipers with analogue or digital indication covering the measuring range 0 to 150 mm or 0 to 6 in.



### CENTERLINE Accessory Sets

- 06769001** Full accessory set provided in a custom wooden case
- 06739000** Full accessory set provided in a fitted wooden case including one TESA Shop-Cal mit capa  $\mu$  system (No. 00530090)
- 06769008** Full accessory set in a fitted wooden case. Includes a free space arranging for a caliper covering the measuring range 0 to 150 mm / 0 to 6 in to be stored (must be ordered separately).

### Complete Sets Including:

|          |                                         |      |     |
|----------|-----------------------------------------|------|-----|
| <b>A</b> | 1 Pair of disc-shaped measuring inserts | 6    | 0,8 |
| <b>B</b> | 1 Pair of disc-shaped measuring inserts | 10   | 0,8 |
| <b>C</b> | 1 Pair of disc-shaped measuring insert  | 12,5 | 0,8 |
| <b>D</b> | 1 Pair of cylindrical measuring inserts | 1,5  | 9,5 |
| <b>E</b> | 1 Pair of cone-shaped measuring inserts | 9    | 60° |
| <b>F</b> | 1 Pair of cone-shaped measuring inserts | 12,5 | 60° |
| <b>G</b> | 1 Insert-holder (left)                  |      |     |
| <b>H</b> | 1 Insert-holder (right)                 |      |     |
|          | 1 Socket head key                       |      | 1,2 |



Steel with black oxide plating



Inserts with M2,5 threaded coupling.

Lowest centre distance of the mounted insert holder: 10 mm.

## Depth Measuring Foot

For use with TESA or ETALON universal calipers with measuring ranges from 0 to 150 mm/0 to 6 in as listed on pages B-3 to B-8.



00560013

75 x 6



Factory standard



Hardened stainless steel



Ground measuring face