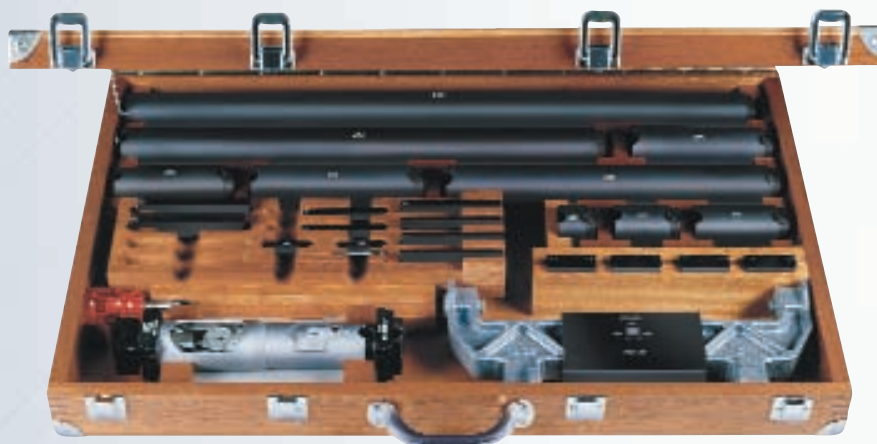
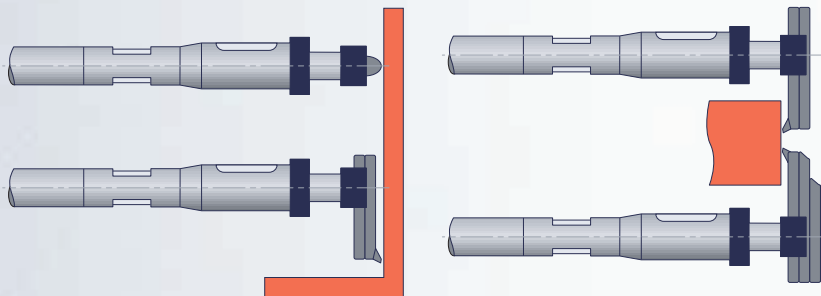
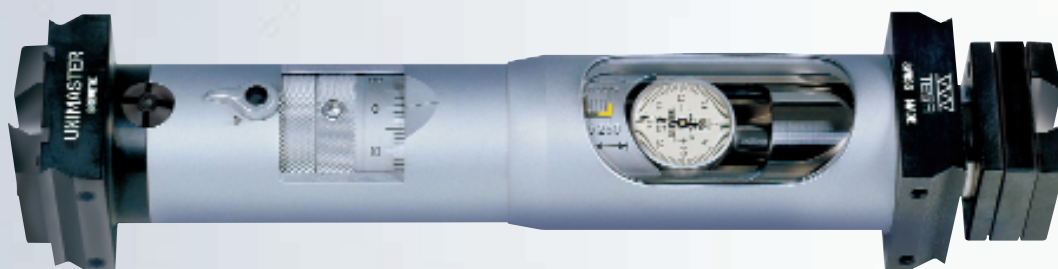


TESA® UNIMASTER® Universal Measuring Instrument

Provides the features necessary for direct measurement of specially large internal and external dimensions.

TESA UNIMASTER is similar in concept to internal micrometers with two-point contact with the workpiece. Made to measure any dimension within the application range directly by simply adding the needed extensions with built-in gauge rods.

Accurate, robust and easy-to-handle – Can be used either vertically or horizontally with a constant measuring force – Incorporates a lever-type dial indicator that clearly shows the culmination point – Ensures stable measuring owing to the negligible deflection and thermal protection of the extensions.



DIN 863 T4 (style B)

Measuring element



Micrometer and lever-type dial indicator: 0,01 mm



Micrometer: 25 mm



1 mm



Lever-type dial indicator: ± 0,4 mm



Mobile ball-bearing anvil under spring pressure



15 to 20 N Reversible probing direction to allow both internal and external measuring



5 µm

Measuring bolts



With tungsten carbide tipped measuring inserts



Measuring bolts in pairs:

- No. 11.10203 for internal measuring in the instrument axis.
- No. 11.10205 for internal/external measuring, meas. depth up to 60 mm from the lower edge of the instrument.
- No. 11.10208, extra-rigid for external measuring, meas. depth up to 75 mm from the lower edge of the instrument.

Extensions



38 mm dia. steel tube with snap-ring system

Built-in gauge rods



Tungsten carbide tipped



One spherical and one flat measuring faces



Additional data



Wooden case



Measuring element and setting standard with identification number



Declaration of conformity



mm



in

TESA UNIMASTER set, complete



mm



in

11.10000

Int. dim.: 250 ÷ 1475*
Ext. dim.: 225 ÷ 1450*

11.20000

10 ÷ 59*
9 ÷ 58*

consisting of:



mm



mm



µm



in

11.10300

Meas. element

Int. dim.: 250 ÷ 275
Ext. dim.: 225 ÷ 250

11.20300

10 ÷ 11
9 ÷ 10

11.10203

Pair of measuring bolts for internal measurements

11.20203

11.10205

Pair of measuring bolts for internal and external measurements, length 75

11.20205

11.10208

Pair of bolts for external measurements., length: 100

11.20208

11.10501

Setting gauge

Internal dimension: 250
External dimension: 225

11.20501

10
9

11.10101

Extension

25

0,7

11.20101

1

11.10102

Extension

50

1

11.20102

2

11.10103

Extension

75

1,2

11.20103

3

11.10104

Extension

100

1,5

11.20104

4

11.10105

Extension

125

1,5

11.20105

5

11.10106

Extension

150

2

11.20106

6

11.10112

Extension

300

3,5

11.20112

12

11.10118

Extension

450

4,5

11.20118

18

11.10124

Extension

600

6,5

11.20124

24

11.30001

Special screwdriver for extensions

11.30001

11.10401

Set of suspension accessories (4 brackets and 4 clamps)

11.10401

11.12401

Wooden storage case for the complete set

11.12401

Optional accessories

11.10140

Extension

1000

10

11.20140

40

11.62001

Pair of bolts for internal/external dimensions and turned grooves

Measuring depth: ≤ 20

Tungsten carbide measuring inserts: ø 4 x 7

11.62001

11.60001

Support roller available as single item (2 are needed)

11.60001

* Using a maximum number of 3 extensions



11.10208



11.10205



11.10203



11.62001

