





0 to 30 mm



Mobile measuring bolt mounted on a

plain bearing, also fitted with a semi-circular releasing disc

Measuring inserts supplied in pairs. One is tighten on the measuring bolt, the other on the fixed anvil using one indexing pin with 1 mm dia. and two M1,4 clamping screws.

Resting table with vertical and lengthwise adjustment facility Table surface area: 24 x 9,5 mm. Setting range: 15 mm upright, 14 mm lengthwise With tightening screws.

Sensor

(must be ordered separately), e.g. dial gauge, electronic or precision indicator, analogue or digital probe with a 8 mm dia. shaft.



Main body in cast iron. Other parts in hardened and ground



Produced by used sensor. The SH.30

model has no spring-loaded measuring force.



Accuracy is usually influenced by the measuring

instrument as well as both flatness and parallelism of the measuring faces of used inserts.

Clamping precision

Tolerance in flatness of both clamping faces: 0,05 mm. Tolerance for the axial position of both indexing pins against bolt axis: 0,05 mm. Tolerance for the parallel position of the table surface against bolt axis: 0,05 mm.

Also see drawing





Shipping packaging

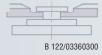


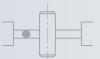
Declaration of conformity

INTERAPID Small Bench SHE.30 or SHE.35

The ideal solution for precise inspection of small part series dedicated to watchmaking and precision mechanics - Fast in measuring and changing from a part to another – Wide choice of measuring inserts specially designed for the broadest variety of metrology applications.



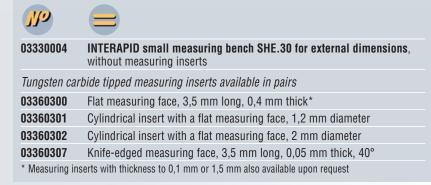




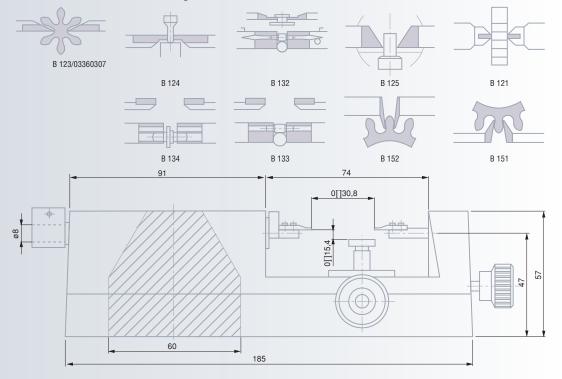
B 111/03360301



B 112/03360302



Measuring inserts (For a detailed description, see on page G-28)







INTERAPID SHE.35 for Internal Dimensions











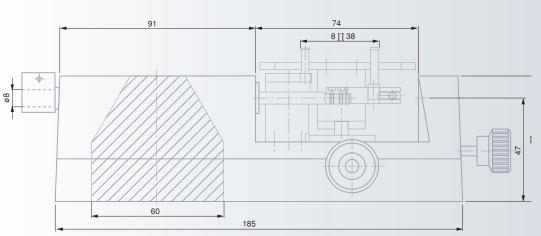
03330006 INTERAPID small bench SHE.35 for internal dimensions,

with measuring inserts included.

8 ÷ 38 mm

Inserts with special design also available on request











8 up to 38 mm (std accessory)



Mobile Measuring bolt mounted on

a plain bearing, also fitted with a retracting ball-shaped handle.

Measuring inserts supplied in pairs. Can be exchanged. Provided with a 4 mm dia. fixing shaft.

Height adjustable resting table

Table surface area: 40 x 70 mm. Setting range: 8 mm. 1 tightening screw.
Sensor (must be ordered separately), e.g. dial gauge, electronic or precision indicator, analogue or digital probe with a 8 mm dia. clamping shaft.



Main body in cast iron. Other parts in hardened and ground

Inserts with carbide measuring faces.



Produced by The bench has

no spring-loaded measuring force.



Accuracy is usually influenced

by the measuring instrument as well as the type of used inserts.



2,3 kg



Shipping packaging



Declaration of conformity









0 to 82 mm



retraction over 26 mm. 8 h6 clamping bore for the sensor.



Cast-iron base. Other components in hardened and ground steel.



Sensor dependent accuracy



Produced through the sensor (not included)



2,5 kg



Wooden case



Declaration of conformity



Tables and inserts must be ordered together with

the small bench as accessories. Correct assembly is ensured by the manufacturer for even greater accuracy.





0 to 50 mm



Insert retraction over 10 mm (using the lift lever).

Spindle travel: 15 mm. 8 h6 clamping bore for the sensor.



Cast-iron base. Other components in hardened and ground steel.



Sensor dependent accuracy



Produced through the sensor (not included)



2,8 kg



Wooden case



Declaration of conformity



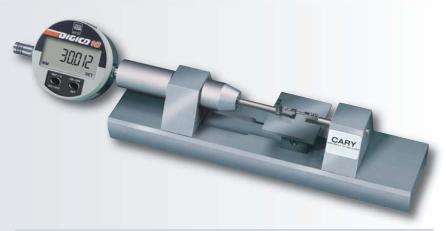
Tables and inserts must be ordered together with

the small bench as accessories. Correct assembly is ensured by the manufacturer for even greater accuracy.

TESA CARY Small Benches

TESA CARY BML with fixed anvil

Specially designed for fast and accurate measurement of parts used in microtechnique.

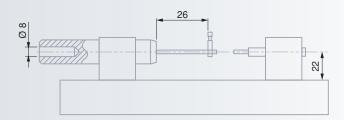






S33060776

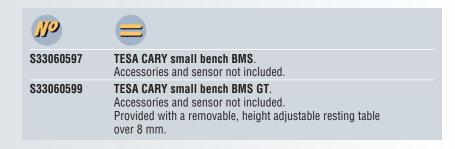
TESA CARY small bench BML with fixed anvil. Accessories and dial gauge not included.

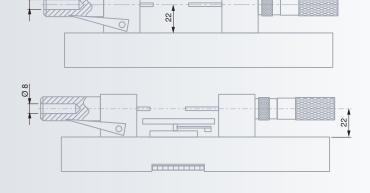




TESA CARY BMS with setting spindle on anvil side

Non-rotative spindle that can be locked in any position.

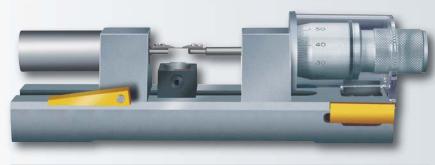


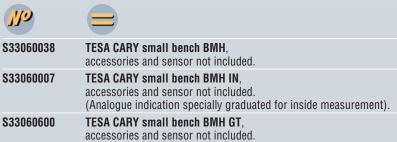




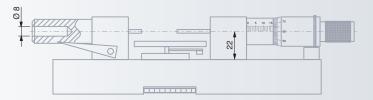
TESA CARY BMH with micrometer element

This bench has a mounted micrometer head with non-rotative, straight guided spindle. The analogue indication features additional graduations with lock by steps of 0,01 mm ensuring quick and reliable positioning of the micrometer. This ingenious device guarantees a positioning accuracy better than 1 μm with a repeatability to < 0,5 μm .





This model is provided with a removable table with adjustable



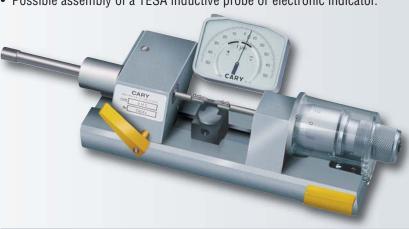
height over 8 mm using the lever system.

TESA CARY BMC along with micrometer element and micro-comparator

Derived from the BMH model, this small bench has the following key features:

 Analogue indication through the TESA CARY MCA8-2 micro-comparator positioned right above the measuring point.

Possible assembly of a TESA inductive probe or electronic indicator.







\$33060534

TESA CARY BMC small bench with MCA8-2 micro-comparator, but without any other accessories.





0 to 50 mm



Insert retraction over 10 mm

(using the lift lever).
Spindle travel:
15 mm.
Spindle lock by steps
of 0,01 mm
Plexiglas tube to protect
the micrometer.
8 h6 clamping bore for
the sensor.



1 mr



Cast-iron base. Other components in hardened and ground steel.



Sensor dependent accuracy



Measuring force produced through the sensor (not included)



3,2 kg



Wooden case



Declaration of conformity



Tables and inserts must be ordered together with

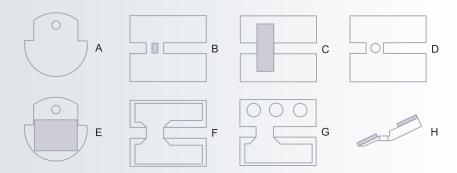
the measuring bench as accessories. Correct assembly ensured by the manufacturer for even greater accuracy.







Resting tables alone



ورال	Type	Description	
S33060526	BT 1	Small table with a 16 mm diameter	Α
\$33060524	BT 2	H-shaped table with tungsten carbide resting face (H = 2 mm)	В
\$33060523	BT 4	H-shaped table with tungsten carbide long plate (H = 2 mm)	С
\$33050416	BT 5	H-shaped steel table, hardened	D
\$33060522	BT 6	Small table, 16 mm diameter, with tungsten carbide plate (H = 2 mm)	Е
\$33050417	BT 8	H-shaped steel table with borders, hardened	F
S33060521	BT 9	H-shaped steel table with 3 cups and borders on the front face, hardened	G
\$33060520	BT 10	Tilted tungsten carbide table	Н
\$33060525		Common table support provided as standard accessory	





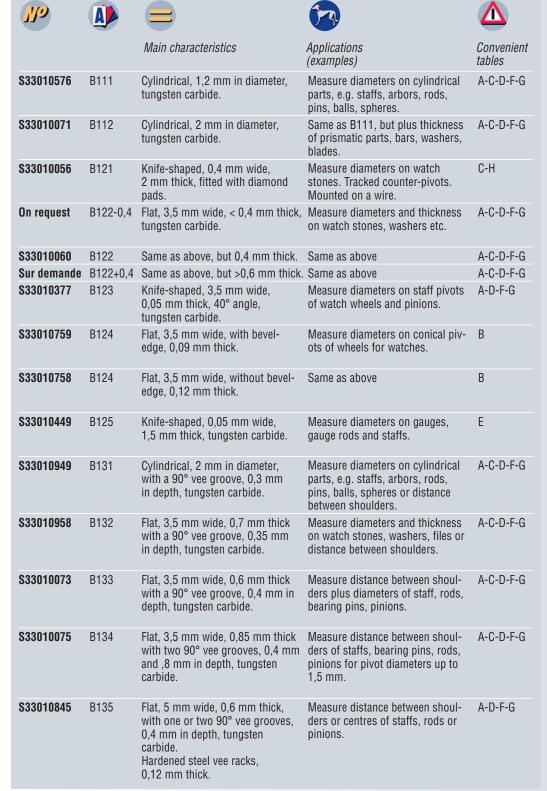
Resting Tables with height adjustable support

وال	A		
	Туре	Description	
\$33060519	BT 21	H-shaped table with tungsten carbide resting face (H = 2 mm)	В
\$33060518	BT 41	H-shaped table with tungsten carbide long plate (H = 2 mm)	С
S33050418	BT 51	H-shaped steel table, hardened	D
\$33060517	BT 81	H-shaped steel table with borders, hardened	F
\$33060516	BT 101	Tilted tungsten carbide table	Н



Paired inserts for external measuring



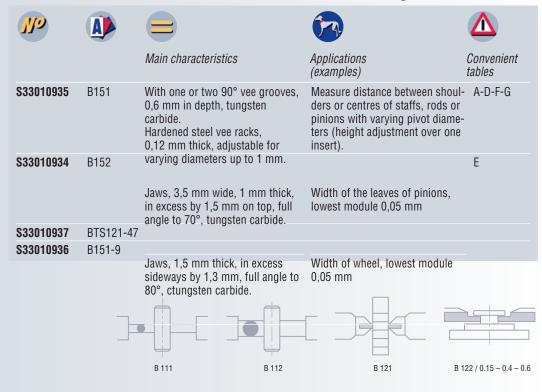


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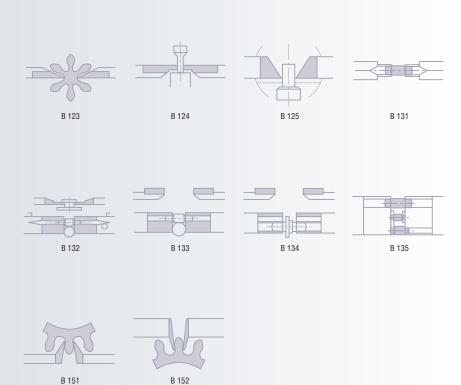




Paired inserts for external measuring





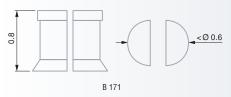


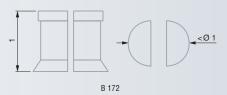


Paired inserts for internal measuring, without holder

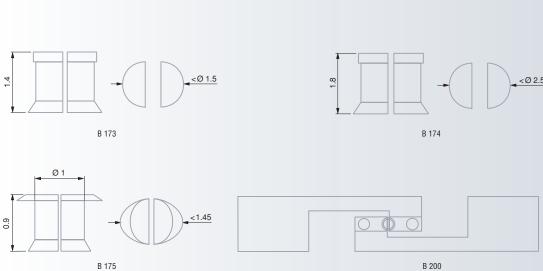


















Hardened steel inserts



measuring faces



(QUICK-CONTROL alone)



Adjustable from 0 up to 10 N. Can be reversed from «neutral» to internal or

external measuring



Suited plastic case



Identification number



Declaration of conformity



This versatile shop tool allows 2-point measurement of part series using one mobile insert coupled with the sensor plus another fixed one fitted with a clamp for mounting a dial gauge, precision indicator or axial probe having a 8 mm dia. clamping shaft.

- · Quick, easy, dependable and precise measurement (repeatability to 2 µm without the use of the sensor).
- Robust construction, easy to mount and further use.
- · Adjustable measuring force.
- · Measure workpieces with plan-parallel, cone-shaped or cylindrical surfaces, grooves, through holes and blind bores, short centring shoulders and wall thickness. Also serve to check diameters on gear teeth.
- Detect form and position errors, i.e. roundness, concentricity and coaxiality.



TESA QUICK-CONTROL 160 C2

Main version within the C2 tool range. Measure mean to very small dimensions (see below for more details).



مار		mm Internal dir	in mensions	mm External di	in mensions
03330024	QUICK-CONTROL 160 C2	30 ÷ 120	1.19 ÷ 4.72	0 ÷ 90	0 ÷ 3.54
Provided with	the following accessories:				
03360022	1 Steady insert holder, short.				
03360027	1 Pair of long inserts for internal/external diameters, through holes, blind bores, grooves and slots with max. depth to 3,7 mm, max. height to 25 mm.				
03360026	1 additional insert, as above but short. For use instead of the long one when measuring at low height.				
Option 1 – Fo	r small dimensions				
03360065	1 Pair of long inserts with a 8 mm dia.clamping shaft, 6 mm dia. probing head.	22 ÷ 120	0.87 ÷ 4.72	0 ÷ 90	0 ÷ 3.54
Option 2 – Fo	or smaller dimensions				
03360031	1 Pair of inserts for checking very small bores.	11.5 ÷ 60	0.46 ÷ 2.36	0 ÷ 90	0 ÷ 3.54
03360024	1 Pair of adapters for 5 mm dia. inserts. For use at probing points with a 8 mm dia.				
03360032	1 Pair of raising blocks used to scale down the width of the slot lying in the middle of the upper tool table.				
Option 3 – Fo	r large dimensions				
03360023	1 Fixed insert holder, long.	30 ÷ 150	1.19 ÷ 5.9	0 ÷ 125	0 ÷ 4.93





TESA QUICK-CONTROL 160 C2 JS

Identical to TESA QUICK-CONTROL 160 C2, but with extended application range.

Hardened steel inserts Lapped measuring faces 2 µm (QUICK-CONTROL

Adjustable from 0 up to 10 N. Can be reversed from «neutral» to internal or external

measuring

Suited plastic case

Identification number

Declaration of conformity



No.		mm Internal dia	in mensions	mm External d	in limensions
03330025	QUICK-CONTROL 160 C2 JS	30 ÷ 275	1.19 ÷ 10.8	0 ÷ 245	0 ÷ 9.64
Provided with	the following standard accessories:				
03360022	1 Insert holder, short				
03360026	1 Standard insert, short				

The options 1 and 2 for small and smaller dimensions described earlier can also be used on the model 160 C2 JS.



1 Pair of sandard inserts, long



TESA QUICK-CONTROL 350 C2

Identical to Quick-Control 160 C2 JS for large dimensions, but specially made for inspecting heavy workpieces.

<u>مرار</u>		mm Internal di	in mensions	mm External	in dimensions
03330001	QUICK-CONTROL 350 C2	47 ÷ 430	1.8 ÷ 16.93	0 ÷ 350	0 ÷ 13.77
Provided with	h the following standard accessories:				
03360057	1 Pair of standard inserts, short for diameters from 62 mm				
03360058	Same as above, but long				
03360061	1 Fixed insert holder, short, L = 60 mm, with a 12 mm dia. clamping bore				
03360062	1 Fixed insert holder, long, L = 200 mm, with a 12 mm dia. clamping bore				



03360027











Lapped measuring faces



2 μm (QUICK-CONTROL alone)





Suited plastic case



Identification number



Declaration of conformity

TESA QUICK-CONTROL C3 for Stationary Use

Having the same features and capabilities as TESA QUICK-CONTROL C2, this model also provides an extra transverse insert.

Both mobile and fixed inserts are used to perform 2-point measurements. The third one moves transversally, thus enabling a correct positioning of the workpiece, without the need for locating the culmination point. This insert also allows workpiece diameter and form errors to be measured at the same time.

TESA QUICK-CONTROL 160 C3 AL

Main version within the C3 tool range for mean to small dimensions.

With a mounted stop-like insert that can be moved in the 45° V-slot.





وال		mm Internal dii	in mensions	mm External of	in dimensions
03330026	QUICK-CONTROL C3 AL	32 ÷ 120	1.26 ÷ 4.72	0 ÷ 90	0 ÷ 3.54
Provided with	h the following accessories:				
03360067	1 Mobile standard insert, 10 mm dia. spherical probing head				
03360068	Pair of standard inserts for fixed holder, 10 mm dia. spherical probing head, L = 36 mm				
03360069	1 Fixed insert holder				
03360070	1 Fixed stop holder				
Option 1 – F	or small dimensions				
03360066	3 long inserts with a 8 mm clamping shaft, 6 mm dia. probing head.	25 ÷ 120	0.99 ÷ 4.72	0 ÷ 90	0 ÷ 3.54
Option 2 – F	or smaller dimensions				
03360072	1 Fixed insert holder for adapter	15 ÷ 60	0.6 ÷ 2.36	0 ÷ 50	0 ÷ 1.97
03360073	1 Fixed insert holder for the third point				
03360074	3 Adapters				
03360075	3 long inserts with a 5 mm clamping shaft for small bores				
Option 3 – F	or large dimensions				
03360023	1 Fixed insert holder, long	32 ÷ 150	1.26 ÷ 5.9	0 ÷ 125	0 ÷ 4.93
03360076	1 Fixed insert holder for the third point, intermediate length = 72 mm				



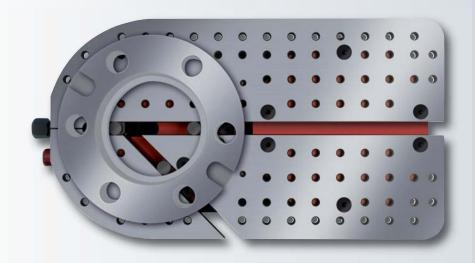
TESA QUICK-CONTROL 160 C3 JS

Identical to TESA QUICK-CONTROL 160 C3 AI, but with extended application range.



ورا					
		mm	in	mm	in
		Internal dim	nensions	External di	mensions
03330027	QUICK-CONTROL 160 C3 JS				
Provided with	the following standard accessories:				
03360067	1 Mobile standard insert, long, 10 mm dia. spherical probing head	32 ÷ 190 (3 points) 32 ÷ 275 (2 points)	1.26 ÷ 7.48 (3 points) 1.26 ÷ 10.8 (2 points)	0 ÷ 170 (3 points) 0 ÷ 245 (2 points)	0 ÷ 6.69 (3 points) 0 ÷ 9.65 (2 points)
03360068	Pair of standard inserts for fixed stop and support, 10 mm dia. spherical probing head, L = 36 mm				
03360069	1 Fixed insert holder				
03360070	1 Fixed stop holder				

The options 1 and 2 for small and smaller dimensions described earlier can also be used on the model 160 C3 JS.









Hardened steel inserts



Lapped measuring faces



2 μm (QUICK-CONTROL àlone)



Adjustable from 0 up to10 N. Can be reversed from «neutral» to internal or external



Suited plastic case



Identification



Declaration of conformity

number







Hardened steel inserts



Lapped measuring faces



(QUICK-CONTROL



Adjustable from 0 up to 10 N. Can be reversed from «neutral» to internal or external measuring



Suited plastic case



Identification number



Declaration of conformity

TESA QUICK-CONTROL 160 C3 90 ST2

Special model for small dimensions. Features a mounted stop-like insert that can be moved in the 90° V-slot.











TESA QUICK-CONTROL 160 C3 120

Measures internal and external dimensions with 2-point contact. Features one mobile and two fixed inserts lying 120° apart. Specially designed for bore measurement.

Uses 2 setting rings matching both upper and lower limit values of the toleranced size for display setting and calibration. Recommended sensor: MC 2030-FC precision indicator with order No. S19070744.











mm

 ≥ 25



 ≥ 0.99

Internal dimensions



mm

≤ 80







 ≤ 3.15



03360067 1 Mobile standard insert,

Provided with the following standard accessories:

Ø 10 mm dia. spherical probing head

03360068 1 Pair of standard inserts

for fixed holder, 10 mm dia. spherical probing head, L = 36 mm

03360022 2 Fixed insert holders, short







Hardened steel inserts



Lapped measuring faces



(QUICK-CONTROL alone)



Adjustable from 0 up to10 N.

Can be reversed from «neutral» to internal or external measuring



Suited plastic case



Identification number



Declaration of conformity





Standard Accessories for TESA QUICK-CONTROL

ولال	
03360022	1 Fixed insert holder, short.
03360023	1 Fixed insert holder, long.
03360024	1 Pair of adapters for 5 mm dia. inserts, 8 mm dia. clamping bore.
03360026	1 Standard insert, short, 8 mm dia. clamping shaft.
03360027	1 Pair of standard inserts, long, 8 mm dia. clamping shaft, for internal/external dimensions, through bores, blind bores, grooves with max. depth to 3,7 mm, max. height to 25 mm.
03360028	1 Pair of cone-shaped inserts, short, 8 mm dia. clamping shaft.
03360029	1 Pair of cone-shaped inserts, short, 8 mm dia. clamping shaft.
03360031	1 Pair of long inserts, 5 mm dia. clamping shaft, for smaller bores.
03360032	1 Pair of resting blocks used to scale down the width of the slot lying in the middle of the upper tool table. For use with 5 mm dia. inserts.
03360033	1 Extension, 20 mm long, for dial gauge plunger.
03360034	1 Blocking shoe for short or long insert holder.
03360037	1 Pair of short inserts, 8 mm dia. clamping shaft, for grooves with max. depth to 7,5 mm.
03360038	1 Pair of long inserts, 8 mm dia. clamping shaft, for grooves with max. depth to 7,5 mm.
03360039	1 Pair of short inserts, 8 mm dia. clamping shaft, for grooves with max. depth to 9,5 mm.
03360040	1 Pair of long inserts, 8 mm dia. clamping shaft, for grooves with max. depth to 9,5 mm.
03360042	1 Pair of long inserts, 8 mm dia. clamping shaft, for grooves with max. depth to 3,0 mm.
03360044	1 Pair of inserts for measuring centre-distances.
03360045 03360050	1 Insert for probe holder, M2,5 x 0,40 coupling thread.
	1 Insert holder with stop included. To to be mounted on the upper plate, height adjustable from 10 to 20 mm.
03360051	1 Insert holder with stop included. To to be mounted on the upper plate, height adjustable from 18 to 70 mm.
03360053	1 Measuring stop with adjustable slot for use in any measuring position.
03360057	1 Pair of standard inserts, short, for QUICK CONTROL 350 C2.
03360058	1 Pair of standard inserts, long, for QUICK CONTROL 350 C2.
03360061	1 Short insert holder, L = 60 mm, with a 12 mm dia. mounting bore, for QUICK CONTROL 350 C2.
03360062	1 Long insert holder, L = 200 mm, with a 12 mm dia. mounting bore, for QUICK CONTROL 350 C2.
03360064	1 Angular blocking shoe, for fixed insert holder on QUICK CONTROL 350 C2.
03360065	1 Pair of long inserts, 8 mm dia. clamping shaft, 6 mm probing head, for small dimensions.
03360066	3 Pair of long inserts, 8 mm dia. clamping shaft, 6 mm probing head, for small dimensions.
03360067 03360068	 1 Mobile standard insert, 10 mm dia. spherical probing head. 1 Pair of standard inserts for fixed holders, 10 mm dia. spherical probing head, L = 36 mm.
03360069	1 Fixed insert holder for QUICK CONTROL C3.
03360070	1 Holder for mounted stop-like insert on QUICK CONTROL C3.
03360071	1 Pair of long inserts, 8 mm dia. clamping shaft, 3 mm probing head, for small dimensions.
03360072	1 Fixed insert holder for adapters.
03360073	1 Fixed holder for stop-like insert and adapter.
03360074	3 Adapters.
03360075	3 Long inserts, 5 mm clamping shaft.
03360076	1 Fixed holder for stop-like insert, intermediate length = 72 mm.
03360077	1 Pair of long inserts, 8 mm dia. clamping shaft, 4,8 mm probing head, for small dimensions.
03360078	1 Fixed holder for stop-like insert, intermediate length = 56 mm.

