

ooc brown & sharpe®

Highlights



Brown & Sharpe TWIN-CAL IP67

Upgradable instrument thanks to integrated modular connection via TLC (TESA Link Connector). Highest degree of protection ever offered: IP67. Housing with metallic protection plate and a unique «soft touch» feel. Two patents for a unique caliper.



Order number	EDP	Measuring range	Thumb roller	Depth rod	Maximum permissible errors		Repeatability limit
					in	µm	µm
00590302	47236	0 ÷ 6	With	Round	≤ 4 in: 20 / > 4 in: 30		10
00590303	47237	0 ÷ 6	With	Square	≤ 4 in: 20 / > 4 in: 30		10
00590304	47238	0 ÷ 8	With	Square	≤ 4 in: 20 / > 4 in: 30		10
00590305	47239	0 ÷ 12	With	Square	≤ 4 in: 20 / > 4 in: 30		10

Brown & Sharpe TWIN-CAL IP40

Upgradable instrument thanks to integrated modular connection via TLC (TESA Link Connector). High degree of protection against dust.



Order number	EDP	Measuring range	Thumb roller	Depth rod	Maximum permissible errors		Repeatability limit
					in	µm	µm
00590092	47473	0 ÷ 6	With	Round	≤ 4 in: 20 / > 4 in: 30		10
00590093	47474	0 ÷ 6	With	Square	≤ 4 in: 20 / > 4 in: 30		10
00590094	47475	0 ÷ 8	With	Square	≤ 4 in: 20 / > 4 in: 30		10
00590095	47476	0 ÷ 12	With	Square	≤ 4 in: 20 / > 4 in: 30		10



Brown & Sharpe VALUELINE IP67

TESA know-how at an affordable price.
High degree of protection IP67 for the most demanding users.



Order number	EDP	Measuring range	Thumb roller	Depth rod	Maximum permissible errors	Repeatability limit
					in	µm
00599390	45601	0 ÷ 6	With	Square	≤ 4 in: 20 / > 4 in: 30	10
00599392	45602	0 ÷ 8	With	Square	≤ 4 in: 20 / > 4 in: 30	10
00599393	45603	0 ÷ 12	With	Square	≤ 4 in: 20 / > 4 in: 30	10

Brown & Sharpe DIAL-CAL

Dial caliper with shockproof mechanism made from the same components used in the manufacture of swiss watches.
The world's first and still the finest.



Order number	Designation	EDP	Measuring range in	Thumb roller	Analogical scale interval in	Travel / revolution in
599-579-4	DIAL-CAL 6 in, white face	51774	0 ÷ 6	without	0.001	0.100
599-579-5	DIAL-CAL 6 in, black face	51879	0 ÷ 6	without	0.001	0.100
599-579-8-1	DIAL-CAL 8 in, white face	27594	0 ÷ 8	with	0.001	0.100
599-579-8-5-1	DIAL-CAL 8 in, black face	27593	0 ÷ 8	with	0.001	0.100
599-579-12-1	DIAL-CAL 12 in, white face	27592	0 ÷ 12	with	0.001	0.100
599-579-12-5-1	DIAL-CAL 12 in, black face	27591	0 ÷ 12	with	0.001	0.100



Twin-Cal IP67- Models with rounded measuring faces for internal dimensions



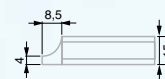
Order number	EDP	Measuring range in
00530423	24699	0 ÷ 12
00530424	24727	0 ÷ 20
00530426	24729	0 ÷ 32
00530427	24730	0 ÷ 40

Twin-Cal IP67- Models with rounded measuring faces for internal dimensions and knife edge jaws



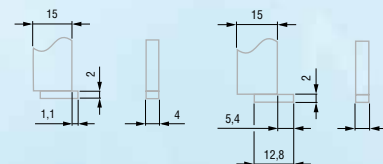
Order number	EDP	Measuring range in
00530433	24732	0 ÷ 12
00530434	24732	0 ÷ 20
00530436	24732	0 ÷ 32
00530437	24732	0 ÷ 40

Twin-Cal IP67- Models with short cut measuring face



Order number	EDP	Measuring range in
00530441	24739	0 ÷ 8
00530442	24740	0 ÷ 10
00530443	24741	0 ÷ 12
00530444	24742	0 ÷ 20

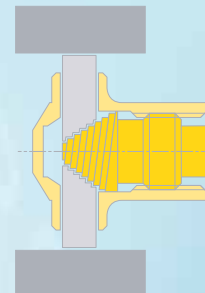
Twin-Cal IP67- Models with rotary stop plate



Order number	EDP	Measuring range in
00530448	24746	0 ÷ 10
00530449	24747	0 ÷ 14
00530450	24748	0 ÷ 20

INTRIMIK with Analog Indication - Inch Models

- Only micrometer in the world that adheres to the Abbe Principle of Alignment.
- Self-centring and self-aligning guaranteed by 3-line contact.
- No influence of temperature variation on the measurement.



Adheres to the Abbe Principle of Alignment



Order number	EDP	Measuring range	Maximum permissible errors	Repeatability limit
		in	in	in
599-281-3	43972	0.275 ÷ 0.350	0.00016	0.00016
599-281-4	43974	0.350 ÷ 0.425	0.00016	0.00016
599-281-5	43976	0.425 ÷ 0.500	0.00016	0.00016
599-281-6	43978	0.500 ÷ 0.600	0.00016	0.00016
599-281-7	43980	0.600 ÷ 0.700	0.00016	0.00016
599-281-8	43982	0.700 ÷ 0.800	0.00016	0.00016
599-281-10	43984	0.800 ÷ 1.000	0.00016	0.00016
599-281-12	43986	1.000 ÷ 1.200	0.00016	0.00016
599-281-14	43988	1.200 ÷ 1.400	0.00016	0.00016
599-281-16	43990	1.400 ÷ 1.600	0.00016	0.00016
599-281-20	43992	1.600 ÷ 2.000	0.00016	0.00016

Micromaster INTRIMIK with Digital Display

- A successful and unique combination of the TESA capacitive system and the IMICRO cone that adheres to the Abbe Principle.
- Self-centring and self-aligning guaranteed by 3-line contact.
- Data transfer by one simple click.



Order number	EDP	Measuring range	Maximum permissible errors	Repeatability limit
		in	in	in
599-290-28-1	27499	0.138 ÷ 0.158	0.00016	0.00016
599-290-30-1	27500	0.158 ÷ 0.178	0.00016	0.00016
599-290-32-1	27501	0.178 ÷ 0.217	0.00016	0.00016
599-290-34-1	27502	0.217 ÷ 0.256	0.00016	0.00016
599-290-35-1	27503	0.240 ÷ 0.320	0.00016	0.00016
599-290-42-1	27504	0.320 ÷ 0.400	0.00016	0.00016
599-290-50-1	27505	0.400 ÷ 0.480	0.00016	0.00016
599-290-60-1	27506	0.430 ÷ 0.550	0.00016	0.00016
599-290-70-1	27507	0.550 ÷ 0.670	0.00016	0.00016
599-290-80-1	27508	0.670 ÷ 0.790	0.00016	0.00016



Indispensable tools for workshops and measurement laboratories:

- Bidirectional measuring
- Continuous clockwise pointer rotation
- Unaffected by magnetic fields.
- Jewelled movement with 7 rubies.
- Measuring insert swivelling to 240°
- Full-metal construction

BESTEST - inch standard models

Order number	EDP	Measuring range in	Analogic scale interval in	Dial Ø in	Circular scale
599-7029-3	45977	0.030	0.001	1	0 ÷ 15 ÷ 0
599-7030-3	45978	0.030	0.0005	1	0 ÷ 15 ÷ 0
599-7032-3	45980	0.008	0.0001	1	0 ÷ 4 ÷ 0
599-7023-3	46400	0.008	0.0001	1-1/2	0 ÷ 4 ÷ 0
599-7033-3	45981	0.008	0.00005	1-1/2	0 ÷ 4 ÷ 0

BESTEST - metric standard models

Order number	EDP	Measuring range mm	Analogic scale interval mm	Dial Ø mm	Circular scale
599-7030-13	45984	0,8	0,01	28	0 ÷ 0.4 ÷ 0
599-7031-13	45985	0,8	0,01	38	0 ÷ 0.4 ÷ 0
599-7033-13	45987	0,2	0,002	38	0 ÷ 100 ÷ 0

BESTEST - End Mounted Dials

Order number	EDP	Measuring range in	Analogic scale interval in	Dial Ø in	Circular scale
599-7037-3	50437	0.030	0.0005	1	0 ÷ 15 ÷ 0

BESTEST - 5 Series (Black Face)

Order number	EDP	Measuring range in	Analogic scale interval in	Dial Ø in	Circular scale
599-7029-5	51732	0.030	0.001	1	0 ÷ 15 ÷ 0
599-7030-5	51733	0.030	0.0005	1	0 ÷ 15 ÷ 0
599-7031-5	51734	0.030	0.0005	1-1/2	0 ÷ 15 ÷ 0
599-7032-5	51737	0.008	0.0001	1	0 ÷ 4 ÷ 0
599-7033-5	51738	0.008	0.00005	1-1/2	0 ÷ 4 ÷ 0
599-7034-5	51735	0.020	0.0005	1	0 ÷ 10 ÷ 0
599-7035-5	51736	0.020	0.0005	1-1/2	0 ÷ 10 ÷ 0

BESTEST - 6 Series (White Face)

Order number	EDP	Measuring range in	Analogic scale interval in	Dial Ø in	Circular scale
599-7032-6	25929	0.008	0.0001	1	0 ÷ 4 ÷ 0
599-7023-6	25923	0.008	0.0001	1-1/2	0 ÷ 4 ÷ 0

BESTEST - Side Mounted Dials

Order number	EDP	Measuring range in	Analogic scale interval in	Dial Ø in	Circular scale
599-7022-3	50567	0.008	0.00005	1-1/2	0 ÷ 4 ÷ 0

BESTEST - Extra long contact points

Order number	EDP	Measuring range in	Analogic scale interval in	Dial Ø in	Circular scale
599-7034-3	45982	0.020	0.0005	1	0 ÷ 10 ÷ 0



599-7032-3



599-7037-3



599-730-13



599-7030-5

These dial test indicators have particularly large measuring spans:

- Robust construction
- Mounting through dovetail clamp and Ø 4 mm swivelling shank
- Bidirectional measuring
- Continuous clockwise pointer rotation

INTERAPID 312 - inch regular models

Order number	EDP	Measuring range in	Analogic scale interval in	Dial Ø in	Circular scale
074111370	42774	0.060	0.0005	1.5	0 ÷ 15 ÷ 0
074111371	86150	0.060	0.0005	1.2	0 ÷ 15 ÷ 0
074111372	41680	0.016	0.0001	1.5	0 ÷ 4 ÷ 0
074111373	41681	0.016	0.0001	1.2	0 ÷ 4 ÷ 0
074111374	41682	0.060	0.001	1.2	0 ÷ 15 ÷
074111965	41716	0.060	0.0005	1.5	0 ÷ 15 ÷ 0



074111370

INTERAPID 312 - metric regular models

Order number	EDP	Measuring range mm	Analogic scale interval mm	Dial Ø mm	Circular scale
074111368	42773	0,4	0,002	37,5	0 ÷ 10 ÷ 0

INTERAPID 312 - inch perpendicular models

Order number	EDP	Measuring range in	Analogic scale interval in	Dial Ø in	Circular scale
074111377	41685	0.060	0.0005	1.5	0 ÷ 15 ÷ 0
074111378	41686	0.060	0.0005	1.2	0 ÷ 15 ÷ 0
074111379	41687	0.060	0.001	1.2	0 ÷ 15 ÷ 0
074111957	41714	0.016	0.0001	1.5	0 ÷ 4 ÷ 0
074111958	41715	0.060	0.0005	1.5	0 ÷ 15 ÷ 0



074111377



074111375

INTERAPID 312 - metric perpendicular models

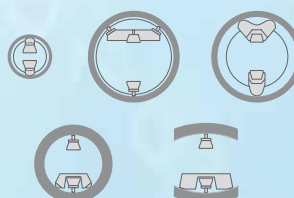
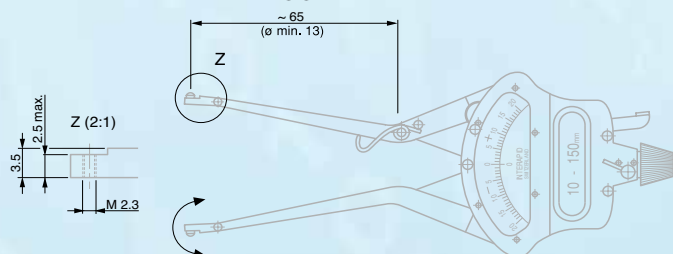
Order number	EDP	Measuring range mm	Analogic scale interval mm	Dial Ø mm	Circular scale
074111375	41683	1,6	0,01	37,5	0 ÷ 40 ÷ 0

ARM GAGES

IRA 2 Comparative Gage

Highly practical comparative measuring instrument thanks to its large measuring span of 0.375 to 6 in:

- Measures at 2 or 3 points depending on the accessory used.
- Ideal for blind or through bores.
- Also suited for measuring grooves and flutes as well as the internal measurement of parts with parallel faces.



Order number	EDP	Designation
079108640	86149	INTERAPID IRA 2
079111402	41886	INTERAPID IRA 2 Hardened Steel



Typical qualities of TESA inductive probe: excellent repeatability, durability and longevity.

- All TESA electronic probes are mounted on ball bearings, except for miniature axial probes.
- The ball bearing guidance system is highly insensitive to radial forces exerted on the measuring rod.
- An anti-rotation device ensures a perfect movement of the mechanical guiding system.
- Measuring inserts can be replaced or exchanged. A wide choice of geometrical shapes and sizes are available.
- The measuring force can be adjusted by changing the spring, depending on the probe model.

Standard Probes, ± 1 mm



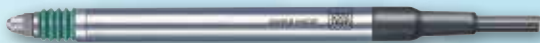
GT21

Order number	EDP	Designation	Measuring range mm	Measuring bolt travel mm	Bolt retraction	Maximum permissible errors μm	Repeatability limit μm
03210904	41002	GT 21	± 1	4,3	Mechanical	$0,2 + 3 \cdot L^3$	0,01
03210924	41010	GT 22	± 1	4,3	Mechanical or vacuum	$0,2 + 3 \cdot L^3$	0,01



GT22

Standard Probes ± 2 mm, Linear Travel



GTL21

Order number	EDP	Designation	Measuring range mm	Measuring bolt travel mm	Bolt retraction	Maximum permissible errors μm	Repeatability limit μm
03230056	29321	GTL 22	± 2	4,3	Vacuum	$0,2 + 2,4 \cdot L^2$ ($0,2 + 0,8 \cdot L$ with BPX)	0,01
03230057	27559	GTL 21	± 2	4,3	Mechanical	$0,2 + 2,4 \cdot L^2$ ($0,2 + 0,8 \cdot L$ with BPX)	0,01



GTL22

Standard Probes ± 5 mm, Extended Range



GT61

Order number	EDP	Designation	Measuring range mm	Measuring bolt travel mm	Bolt retraction	Maximum permissible errors μm	Repeatability limit μm
03230041	41040	GT 61	± 5	10,3	Mechanical	$1 + 4 \cdot L$ ($0,6 + 0,8 \cdot L$ with BPX)	0,05
03230042	41041	GT 62	± 5	10,3	Mechanical or vacuum	$1 + 4 \cdot L$ ($0,6 + 0,8 \cdot L$ with BPX)	0,05



GT62

Standard Probe, ± 2 mm, with Long Retraction Travel



GT27

Order number	EDP	Designation	Measuring range mm	Measuring bolt travel mm	Bolt retraction	Maximum permissible errors μm	Repeatability limit μm
03230027	41036	GT 27	± 2	10,3	Mechanical	$0,2 + 3 \cdot L^3$	0,05

GT 31 Lever probes

Access to the measurement is facilitated with the inclinable probe lever, also allowing measurement in two directions. This model is also often used for aligning elements of a machine or a XY table, during installation.

Highlights of the probe GT 31:

- Automatic reversal of measuring direction.
- Lever's laterally adjustable measuring direction on 180 °.
- Coupled with the TESATRONIC TT10 display, the whole set becomes a ultraportable solution.

Order number	EDP	Designation	Measuring range mm	Maximum permissible errors μm	Repeatability limit μm
03210802	86188	GT 31	$\pm 0,3$	$0,2 + 50 \cdot L^2$	0,1
03270612	39836	GT 31 B&S	$\pm 0,3$	$0,2 + 50 \cdot L^2$	0,1



GT 31

Miniature Probes

Miniature inductive TESA probes are particularly suitable for applications where space around the part to be measured must be the lowest. As an example application, inductive sensors can be mounted on a measuring head for checking bores or when domestic measures. GT41 and 42 provide excellent repeatability of 0.01 for a measuring range of ± 0.3 mm.



GT 43

Order number	EDP	Designation	Measuring range mm	Measuring bolt travel mm	Maximum permissible errors μm	Repeatability limit μm
03230035	27384	GT 43	± 1	2,1	$0,2 + 5 \cdot L^2$	0,1
03230017	41018	GT 44	± 1	2,1	$0,2 + 5 \cdot L^2$	0,1



GT 44

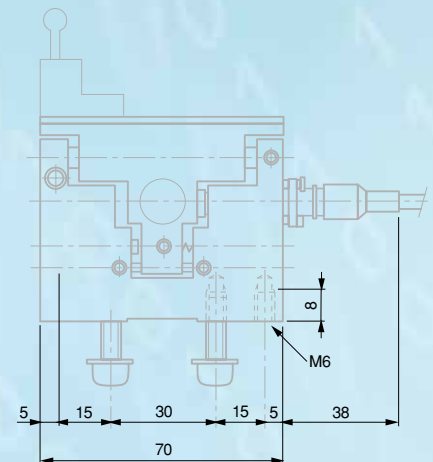
Probe with Parallel Guidance

FMS probe features:

- Can be mounted in any position measurement.
- Measuring force can be changed.
- Spindle can be engaged / disengaged pneumatically.
- The measuring direction can be reversed



FMS 100



FMS 100

Order number	EDP	Designation	Measuring range mm	Maximum permissible errors μm	Repeatability limit μm
03230019	41020	FMS	± 2	$0,2 + 3 \cdot L^3$	0,5



USB Probes

Using an interface box becomes redundant as USB probes can be directly connected to the USB port of a computer. TESA Software Inductive Probes capable of displaying up to 4 USB probes is included. Communicating with the instrument by sending ASCII commands is possible.



GTL 21 USB



GTL 22 USB

Order number	EDP	Designation	Measuring range mm	Measuring bolt travel mm	Bolt retraction	Maximum permissible errors μm	Repeatability limit μm
03230201	46897	GTL 22 USB ± 2	± 2	4,3	Mechanical/vacuum	0,4 + 0,8 · L	0,1
03230200	47187	GTL 21 USB ± 2	± 2	4,3	Mechanical	0,4 + 0,8 · L	0,1

SURFACE ROUGHNESS TESTING

TESA RUGOSURF 20

Portable roughness gage designed for the production workshop:

- Measuring range of 400 μm (6300 μin) in the Z axis
- Sturdy metallic base
- 15 most commonly used roughness parameters
- Easy to use



RUGOSURF 20

Order number	EDP	Designation	Measuring range	Indication span	Resolution	Maximum permissible errors μm	Included in delivery
06930013	47126	TESA RUGOSURF 20	mm 400 μm (0.0157 in) on Z axis, 16 mm (0.63 in) on X axis	μm Ra = 0 ÷ 100 μm ; Rt = 0,05 ÷ 400 μm	μm 0,001 μm	in accordance with ISO 3274 Class 1	RUGOSURF 20 SB10 standard skid probe Roughness standard Ra = 2,97 μm Positioning pin \varnothing 8 mm for use vertically Detachable probe protector Integral rechargeable battery Charger and adapter EU/US User manual Carrying and storage case

TESATRONIC TT 10 Probe Display Unit

Portable instrument known for its unmatched durability and robustness in production workshops.

Provides a clear and precise reading on the high-contrast screen. A TESA bestseller!

- Perfect for inspection on the surface plate, on an inspection workstation in production or directly on a machine
- Battery power supply
- Frequently used with a GT 31 lever probe for setting operations
- Combined digital/analog indication
- 3 measuring ranges, switchable manually or automatically depending on the measured value
- Millimetre/inch conversion



TT 10

Order number	EDP	Designation	Measuring range µm	Circular scale mm	Resolution µm	Number of probe inputs	Number of classes	Included in delivery
04430008	41239	TESATRONIC TT10	3 / min. ± 5 max. ± 500	•	0,1 / 10,0	1	-	- 3 batteries AA, 1,5 V, type LRC 6 (04768002) - 1 visual template for the classification of values (04460007)

TESATRONIC TT 20 and TT 60 Probe Display Units

Electronic instrument with analog and digital display:

- 2 probe inputs
- 7 measuring ranges
- Resolution 0,10 microns
- Signal relay outputs for single acceptance class
- RS232 output

In addition for the TT 60:

- Memory
- Dynamic measurement
- Signal relay outputs for 5, 10, 20 or 40 acceptance classes
- Analog port



TT 20

Order number	EDP	Designation	Measuring range µm	Circular scale mm	Resolution µm	Number of probe inputs	Number of classes	Included in delivery
04430010	21087	TESATRONIC TT 60	min. ± 5 max. ± 5000	•	0,2 / 200	2	• / > 42 / •	- 1 battery charger 100 to 240 Vac, 50 to 60 Hz, 6,6 V DC, 750 mA (04761054) - 1 EU cable for charger (04761055)
04430009	47179	TESATRONIC TT 20	min. ± 5 max. ± 5000	•	0,2 / 200	2	• / 3 / •	- 1 battery charger 100 to 240 Vac, 50 to 60 Hz, 6,6 V DC, 750 mA (04761054) - 1 EU cable for charger (04761055)

TESATRONIC TTA 20

Analog type display such as galvanometer.

Analog output for the connection of a remote displaying or scribing unit.



TTA 20

Order number	EDP	Designation	Measuring range µm	Circular scale	Number of probe inputs	Included in delivery
04430003	41234	TESATRONIC TTA 20	min: ± 3 max: ± 1000	•	2	- 3 wires cable with SEV plug, length: 2 m (03160015) or - 3 wires cable with VDE plug, length: 2 m (03160016) or - 3 wires cable, without plug, length: 2 m (03160017)



TESA-HITE Magna 400 / 700

Equipped with the patented TESA MAGNA measuring system, these 1D manual height gages are particularly suitable for harsh conditions. Thanks to their robustness and their high protection level (IP65), they are very robust and specifically designed for tough production environments where a high penetration of dust particles and the frequent splashing of liquids (water, oil etc.) are common.

Order number	EDP	Designation	Measuring range	Application range	Maximum permissible errors	Repeatability limit
			in	in	in	in
00730047	28260	TESA-HITE magna 400	0 ÷ 16	0 ÷ 22	<0.0003	On flat: 2σ = < 0.00015 in On hole: 2σ = < 0.00020 in
00730059	28261	TESA-HITE magna 700	0 ÷ 28	0 ÷ 34	<0.0003	On flat: 2σ = < 0.00015 in On hole: 2σ = < 0.00020 in



TESA-HITE 400 / 700

This manual 1D height gage with its refined panel and its easily-accessible software is typically used in workshops. It focuses on the main functions necessary for quick measurements and immediate access to the results.

It is delivered with a rechargeable battery, which has the longest battery life on the market (< 60 h). This is particularly important in places with limited access to power supply or when the measurement requires large displacements of the height gage itself.

Order number	EDP	Designation	Measuring range	Application range	Maximum permissible errors	Repeatability limit
			in	in	in	in
00730043	24675	TESA-HITE 400	0 ÷ 16	0 ÷ 22	0.0001+0.000004L	On flat: 2σ = < 0.0001 On hole 2σ = < 0.00015
00730044	24676	TESA-HITE 700	0 ÷ 28	0 ÷ 34	0.0001+0.000004L	On flat: 2σ = < 0.0001 On hole 2σ = < 0.00015



TESA-HITE Plus M 400 / 700

This motorised version of the TESA-HITE also features new functionalities such as 2D mode, programming etc. As a result, it is an excellent compromise between ease of use and a wider choice of options to meet the specific requirements of users who occasionally work with functions other than 1D only measurement.

Order number	EDP	Designation	Measuring range	Application range	Maximum permissible errors	Repeatability limit
			in	in	in	in
00730045	35359	TESA-HITE plus M 400	0 ÷ 16	0 ÷ 22	0.0001+0.000003L	On flat: 2σ = < 0.00005 On hole: 2σ = < 0.0001
00730046	35360	TESA-HITE plus M 700	0 ÷ 27	0 ÷ 33	0.0001+0.000003L	On flat: 2σ = < 0.00005 On hole: 2σ = < 0.0001
00730057	35362	TESA-HITE plus M 400 + printer	0 ÷ 16	0 ÷ 22	0.0001+0.000003L	On flat: 2σ = < 0.00005 On hole: 2σ = < 0.0001
00730058	35359	TESA-HITE plus M 700 + printer	0 ÷ 27	0 ÷ 33	0.0001+0.000003L	On flat: 2σ = < 0.00005 On hole: 2σ = < 0.0001



TESA MICRO-HITE 300 / 600 / 900

This manual 2D height gage is mainly used in workshops and offers comfortable and accurate positioning, which is very useful during the measurement of small elements.

Thanks to its robustness, this instrument is very reliable and guarantees excellent repeatability and precision under any circumstances, but especially when used with extensions or small probes.

The interchangeable battery makes it possible to easily handle the instrument in places without access to power supply.



Order number	EDP	Designation	Measuring range	Application range	Maximum permissible errors	Repeatability limit
			in	in	in	in
00790033*	28272	Set MICRO-HITE 300	0 ÷ 14	0 ÷ 20	0.0001+0.000003L	2σ ≤ 0.00005
00790034*	28273	Set MICRO-HITE 600	0 ÷ 24	0 ÷ 30	0.0001+0.000003L	2σ ≤ 0.00005
00790035*	28274	Set MICRO-HITE 900	0 ÷ 36	0 ÷ 42	0.0001+0.000003L	2σ ≤ 0.00005
00760163	29280	POWER PANEL				

* panel not included



TESA MICRO-HITE Plus M 350 / 600 / 900

These motorised 2D height gages are the most precise and powerful in the TESA product range. They feature advanced functions such as statistical analysis, programming etc. They are the only height gages on the market guaranteeing frontal as well as lateral perpendicularity (which can be measured with the option IG13).

Unlike the instruments of other manufacturers, TESA height gages are automatically delivered with a SCS (Swiss Calibration Service) certificate, which is a guarantee of expertise / optimal stability and longevity.



Order number	EDP	Designation	Measuring range in	Application range in	Maximum permissible errors in	Repeatability limit in
00730063*	29275	Set MICRO-HITE plus M 350	0 ÷ 14	0 ÷ 20	0.0001+0.0000015L	On flat: 2σ = < 0.000025 On hole: 2σ = < 0.00005
00730064*	29276	Set MICRO-HITE plus M 600	0 ÷ 24	0 ÷ 30	0.0001+0.0000015L	On flat: 2σ = < 0.000025 On hole: 2σ = < 0.00005
00730065*	29277	Set MICRO-HITE plus M 900	0 ÷ 36	0 ÷ 42	0.0001+0.0000015L	On flat: 2σ = < 0.000025 On hole: 2σ = < 0.00005
00760220	29282	POWER PANEL plus M with printer				
00760221	29283	POWER PANEL plus M without printer				

* panel not included

TESA-μHITE

Compact design with measuring stand included. The perfect combination for small parts and when a low measuring force is required. The whole system provides the best solution for measuring straightness, flatness and parallelism or inspecting axial and radial runouts, depending on the chosen tool configuration.

Order number	EDP	Application range in	Maximum permissible errors in	Repeatability limit in
00730049	28993	0 ÷ 6.3	coaxial tip: 0.00005 / off-centre tip 0.0001	coaxial tip: 0.00002 off-centre tip 0.000040



Brown & Sharpe UNIMASTER Universal Measuring Instrument

The perfect instrument for internal and external measurements of large dimensions. The complete UNIMASTER set offers accessories minimising geometric errors of the instrument as well as human errors.



Order number	EDP	Designation	Application range
01120000	40245	B&S UNIMASTER full set	in Int: 10 ÷ 59 Ext: 9 ÷ 58

Brown & Sharpe UNITEST Internal Micrometer

Measuring instrument for direct measurement. This type of measurement does not require a reference part thanks to the setting standard included in the set as well as the extensions with defined lengths.



Order number	EDP	Designation	Application range
01120700	40261	B&S UNITEST full set	in Int: 8 ÷ 560



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