

Magnescale

Digital length measuring systems

Magnescale scale systems

The SJ700A is a universal scale with a favourable price-performance ratio.

- Measuring range: 150-1600 mm.
- Accuracy: $\pm 10 \mu\text{m/m}$.



The GB-ER is a highly accurate and robust scale system.

- Meas. range: 50-2200 mm.
- Accuracy: $\pm (2.5+2.5L) \mu\text{m}$, L in m.
- With reference point.

GB-ER

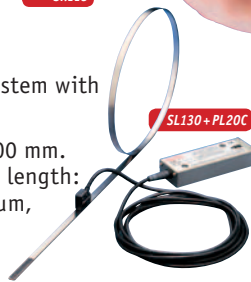
The SR118 is the smallest universal scale system.

- Measuring range: 15-260 mm.
- Accuracy, depending on the length: $\pm 2 \mu\text{m}$ to $\pm 3 \mu\text{m}$.



Digiruler SL130 is a scale system with a large measuring range.

- Measuring range: 200-30000 mm.
- Accuracy, depending on the length: $\pm (25+5L) \mu\text{m}$ to $\pm (55+5L) \mu\text{m}$, L in m.



Magnescale SJ700A from **€331**

Magnescale GB-ER from **€441**

Magnescale SR118 from **€612**

Digiruler SL130 + PL20C reading head from **€399**

Magnescale display units

Compact universal display units with a favourable price-performance ratio.

- With many functions for lathes and milling machines. **LH70**
- Resolution: 0.1-0.5-1-5-10 μm .



LG20 display unit + AC adapter 12 Vdc from **€474**

LH70 display unit **!** + AC adapter 12 Vdc from **€497**

Display supports



Display support 857.801 **€ 92**

Display support 857.800 **€ 164**

When purchasing a digital read-out system consisting of at least 2 scales and a display unit you will get 50% discount on a display support.

Magnescale

Digital probe read-out systems

Economically favourable and compact measuring system.

Magnescale DT digital gauges

- Measuring range: 12 or 32 mm.
- Resolution: 1 or 5 μm .
- Accuracy: ± 3 or $\pm 5 \mu\text{m}$.



Magnescale LT display units

- Various functions.
- Go/NoGo indication.
- Suitable for build-in.



DT12 digital gauge + LT10A-1 display unit from **€631**

Stand-alone housing LT display unit serie 348.276 **€ 80**

Magnescale

Magnescale UB-F digital dial indicators

Digital dial indicators with a high accuracy.

- Measuring range: 0-60 mm.
- Resolution: 1 μm .
- Accuracy: $\pm 1 \mu\text{m}$ or $\pm 1.5 \mu\text{m}$.
- Min/max/P-P function.

344.430

Digital dial indicator UB-F + AC adapter 6 Vdc from **€567**

Magnescale

Digital probe systems

Magnescale DK digital gauges

- Measuring range: 2-205 mm.
- Resolution: 0.1 or 0.5 μm .
- Accuracy: p-p 1 - 6 μm .
- Output: A/B-phase (TTL line driver RS422).
- Built-in reference point.



Magnescale LT30 display unit

- Various functions.
- Go/NoGo indication.

Magnescale MG modular multi-interface system

- Many Magnescale gauges connectable.
- Various functions
- Multi-channel measurements via RS232C, BCD or via a digital protocol (Ethernet; 100 Mbit/s).



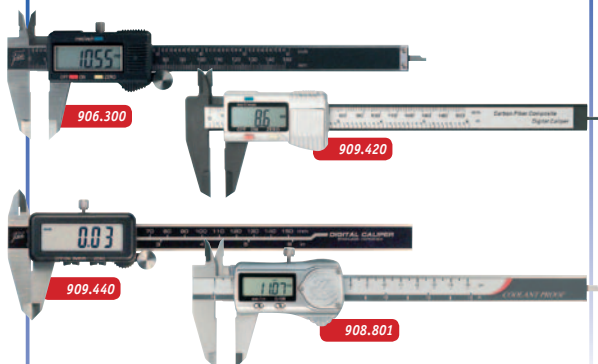
DK digital gauge from **€616**

LT30 display unit from **€496**

N! System MG10 + MG20-DK from **€479**

Digital calipers

- Measuring range: 0 - 150 mm.
- Available up to 300 mm. ^①
- Various models available.
- With inspection report and data output. ^②



Digital caliper ^①	906.300	€16.30
N! Digital plastic caliper	909.420	€ 8.30
N! Digital caliper with glass ruler ^{①②}	909.440	€39.40
Digital caliper IP67 ^①	908.801	€75.00

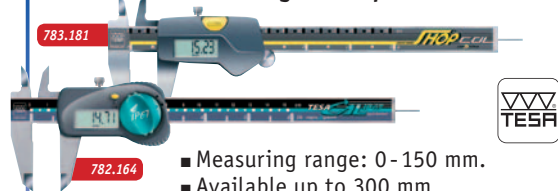
Digital and vernier workshop calipers



- Measuring range: 0 - 300 mm.
- Available up to 2000 mm.
- With or without measuring knives for internal or external measurements.
- Vernier: 0.05 mm or 0.02 mm. ^①

Workshop caliper ^①	from	€65
Digital workshop caliper	from	€75

TESA digital calipers

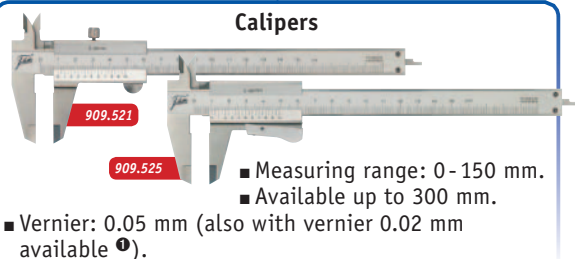


- Measuring range: 0 - 150 mm.
- Available up to 300 mm.
- Various models available.

N! TESA Shop-Cal	783.181	€ 79*
TESA-Cal IP67	782.164	€114*

* promotion price TESA: valid from May 1st until August 31st 2012

Calipers



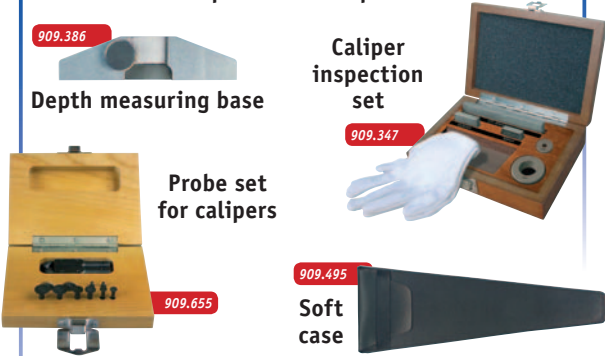
- Measuring range: 0 - 150 mm.
- Available up to 300 mm.
- Vernier: 0.05 mm (also with vernier 0.02 mm available ^①).

N! Caliper (locking screw) ^①	909.521	€12.40
N! Caliper (spring release)	909.525	€12.40

Various caliper models available



Options for calipers



Depth measuring base

Caliper inspection set

Probe set for calipers

Soft case

Mitutoyo Absolute Digital calipers



- Measuring range: 0 - 150 mm.
- Available up to 300 mm.
- Various models available.

Caliper	500.181	€ 81.50*
Coolant Proof IP67 Caliper	500.706	€118.00*

* promotion price Mitutoyo: valid from May 1st until July 31st 2012

Digital micrometers



- Measuring range: 0-25 mm.
- Available up to 200 mm. ^①
- Available up to 100 mm. ^②
- Various models available.
- Also available in sets.

Digital micrometer ^①	908.750	€ 39.40
Digital micrometer 30 mm double display ^①	907.682	€ 107.00
N! Digital micrometer IP65 ^②	909.549	€ 90.00

Micrometers

- Meas. range: 0-25 mm.
- Available up to 300 mm.
- Also available in sets.



Micrometer 0.01 mm	906.000	€ 11.60
Micrometer fast adjustment	907.000	€ 33.50

Various micrometer models available



Various inserts and setting gauges available



Digital micrometers TESA Micromaster



- Meas. range: 0-30 mm.
- Available up to 300 mm.
- Various models available.

TESA Micromaster IP54 (0-30 mm)	782.101	€ 268
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Mitutoyo Digimatic micrometers



- Measuring range: 0-25 mm.
- Available up to 100 mm ^①.
- Quickly adjustable: 1 revolution = 2 mm. ^②

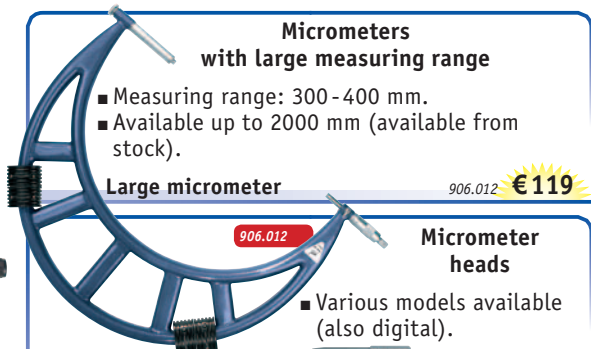


Mitutoyo lightweight micrometer	293.821	€ 133
Mitutoyo QuantuMike IP65 ^{①②}	293.145	€ 149*

* promotion price Mitutoyo: valid from May 1st until July 31st 2012

Micrometers with large measuring range

- Measuring range: 300-400 mm.
- Available up to 2000 mm (available from stock).



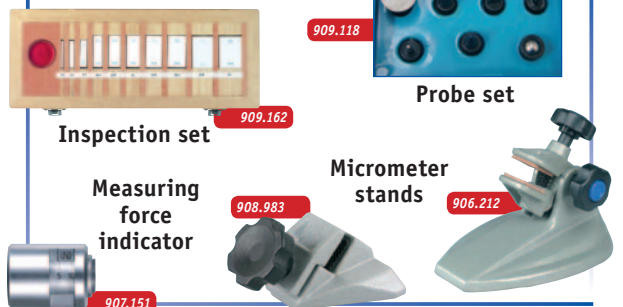
Large micrometer	906.012	€ 119
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Micrometer heads

- Various models available (also digital).

Micrometer head	from	€ 10.50
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Options for micrometers



Inspection set

Measuring force indicator

Micrometer stands

Digital three-point internal micrometers IP54

- Available from $\varnothing 6$ to 1000 mm.
- Resolution: 0.001 mm.
- Sets are delivered with setting rings and extension.

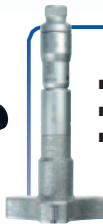


Digital internal micrometer

from €239

Three-point internal micrometers

- Available from $\varnothing 3.5$ to 300 mm.
- Graduation: 0.001 mm ($\varnothing 12$ -300 mm: 0.005 mm).
- Sets are delivered with setting rings and extension.



Internal micrometer

from €111

Mitutoyo Holtest three-point internal micrometers

- Available from $\varnothing 2$ (analog) and $\varnothing 6$ (digital) to 300 mm.
- Graduation: 0.001 mm (analog, $\varnothing 12$ -300 mm: 0.005 mm).
- Also available in sets.
- Digital models are also available.

Mitutoyo



Mitutoyo internal micrometer analog

from €295

TESA Imicro digital three-point internal micrometers

- Available from $\varnothing 3.5$ to 300 mm.
- Resolution: 0.001 mm.
- Available in sets.
- Analog models are also available.



TESA Imicro internal micrometer digital

from €892

Setting rings in sets

BAKER

- Setting rings:
836.564: $\varnothing 4, \varnothing 5, \varnothing 6, \varnothing 8$ mm,
836.565: $\varnothing 10, \varnothing 12, \varnothing 16, \varnothing 20, \varnothing 25$ mm.
- Hardened steel.
- DIN 2250 C.
- Delivery in a wooden case with a traceable measuring report.



NI Setting rings set $\varnothing 4, 5, 6$ en 8 mm 836.564 €160

NI Setting rings set $\varnothing 10, 12, 16, 20, 25$ mm 836.565 €210

Internal/external measuring instruments

- Available from 5 to 60 mm or from 0 to 60 mm.
- Resolution: 0.01 mm.



Digital int./ext. measuring instruments from €98

Internal/external measuring instruments from €89

Kroepelin internal and external measuring instruments

- German quality.
- Various models available.

Kroepelin
Längenmesstechnik



Bore gauges

- Available from 6 to 450 mm.
- Interchangeable inserts.
- Incl. dial indicator 0-3 mm (graduation 0.01 mm).

Bore gauge

from €60



Various internal micrometer models available



Pistol-shaped three-point internal micrometers

- Available from $\varnothing 6$ to 100 mm.
- Excl. dial indicator.
- Sets are delivered with setting rings and extension.



Internal micrometer

from €195

Schwenk dial indicators and internal meas. instruments

- German quality.
- Various models available.

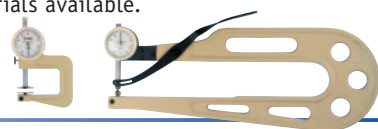
Schwenk



WOLF thickness gauges

Various models for thickness measurements of different materials available.

- German quality.



Dial indicators

- Meas. range: 0 - 10 mm.
- Available up to 50 mm ^① and 100 mm ^②.
- Delivery with inspection report. ^③
- Also available with graduation 0.001 mm.



Dial indicator 0.01 mm ^{②③}	907.930	€12.20
Dial indicator 0.01 mm IP54	908.779	€33.50
Dial indicator 0.01 mm ^①	855.507	€32.10

Digital dial indicators TESA Digico

- Measuring range: 0 - 12.5 mm.
- Available up to 25 mm.
- With digital and digital-analog indication.
- Various models with different functions available.



TESA Digico 205 0.01 mm 783.000 €149*

* promotion price TESA: valid from May 1st until August 31st 2012

Accessories dial indicators/dial test indicators

- Centering support: holder \varnothing 4 mm
- Rectangular fixing shaft: holder \varnothing 4/ \varnothing 8 mm ^① and \varnothing 6/ \varnothing 8 mm ^② and dovetail clamp.
- Round, swivelling fixing shaft: holder with dovetail clamp.



N! Centering support \varnothing 8 x 25 mm	909.433	€9.50
N! Rectangular fixing shaft 12x6x76 mm ^①	909.434	€9.50
N! Rectangular fixing shaft 12x6x76 mm ^②	909.435	€9.50
N! Rectangular fixing shaft 9x9x76 mm ^①	909.436	€9.50
N! Rectangular fixing shaft 9x9x76 mm ^②	909.437	€9.50
N! Round fixing shaft \varnothing 6 x 70 mm	909.438	€9.50
N! Round fixing shaft \varnothing 8 x 70 mm	909.439	€9.50

Dial test indicator

- Measuring range: 0.8 mm.
- Also available with graduation 0.002 mm.



Dial test indicator 0.01 mm 907.941 €27.80

Digital dial indicators

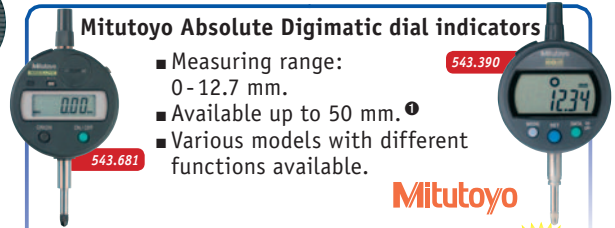
- Meas. range: 0 - 12.5 mm.
- Available up to 50 mm. ^①
- Delivery with inspection report. ^②
- With determination of reversal point e.g. for use in combination with internal measuring instruments. ^③
- Also available with graduation 0.001. ^④



Digital dial indicator 0.01 mm ^{①②④}	907.634	€42.00
Digital dial indicator 0.001 mm ^③	909.251	€153.00
Digital dial indicator 0.001 mm IP54 ^③	907.879	€90.00

Mitutoyo Absolute Digimatic dial indicators

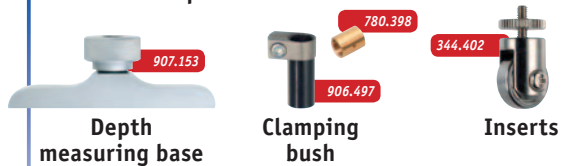
- Measuring range: 0 - 12.7 mm.
- Available up to 50 mm. ^①
- Various models with different functions available.



Mitutoyo ID-S 0.01 mm	543.681	€135
Mitutoyo ID-C 0.001 mm ^①	543.390	€229*

* promotion price Mitutoyo: valid from May 1st until July 31st 2012

Options for dial indicators



Depth measuring base 907.153

Clamping bush 906.497

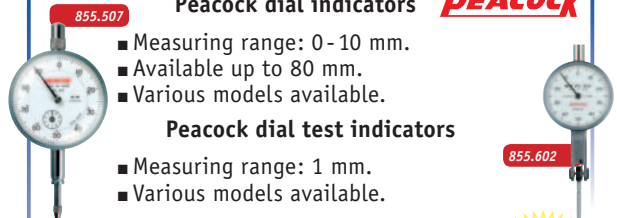
Inserts 844.402

Peacock dial indicators **PEACOCK**

- Measuring range: 0 - 10 mm.
- Available up to 80 mm.
- Various models available.

Peacock dial test indicators

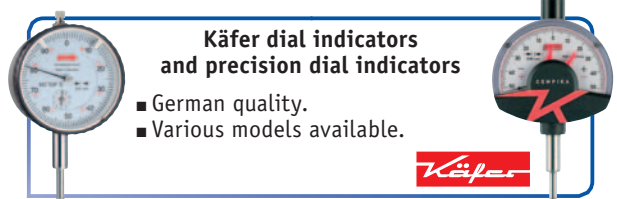
- Measuring range: 1 mm.
- Various models available.



Peacock dial indicator 0.01 mm	855.507	€32.10
Peacock dial test indicator 0.01 mm	855.602	€89.00

Käfer dial indicators and precision dial indicators

- German quality.
- Various models available.



Measuring stands

- Clamping shaft: $\varnothing 8$ mm.
- Spindle adjustment with graduation. ¹
- Various models available.



334.690



402.165



907.789

Measuring stand with ceramic table	334.690	€ 355
Measuring stand with granite table	402.165	€ 159
Measuring stand with spindle adjustment ¹	907.789	€ 353

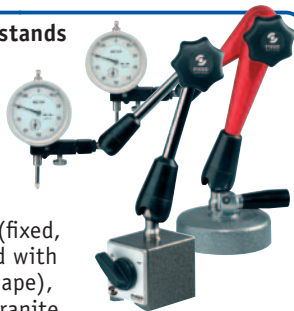
Fisso dial indicator stands



FISSO
Swiss Made

- Various models available.

- Bases:
magnetic (fixed, switch and with flexible shape), vacuum, granite base.



Kanetec dial indicator stands

Solid dial indicator stands with on/off switch to (de-)activate the magnetic base.

- Various models available.



Dial indicator stand

Unique dial indicator stand with switchable magnetic base, V-groove on 3 sides and an integrated fine adjustment, operable at the backside of the arm.

- Clamping shaft: $\varnothing 8$ mm.
- Dimensions base: 54x40x47 mm.
- Thread of base: M8x1,25.
- Column: $\varnothing 12 \times 190$ mm.
- Arm: $\varnothing 10 \times 160$ mm.
- Magnetic force: 800 N.



N! Stand with integrated fine adjustment 908.946 € 89

Dial indicator stands

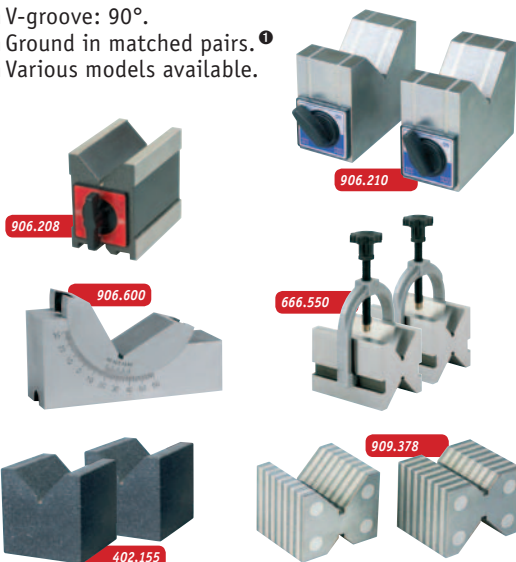
- With fine adjustment.
- Clamping shaft $\varnothing 8$ mm for dial indicators and dovetail joint for dial test indicators.
- Various models and bases (also separately) available (on/off switchable magnetic base, flat or with V-groove, flexform base with locking mechanism and permanent magnetic force, granite or vacuum base).



Stand with magnetic base	908.950	€ 14.40
Stand with magnetic base	908.953	€ 27.70
Stand with vacuum base	908.961	€ 35.00
Stand with granite base	402.195	€ 142.00

V-blocks

- V-groove: 90°.
- Ground in matched pairs. ¹
- Various models available.



Magnetic V-block	906.208	€ 56
N! Pair magnetic V-blocks ¹	906.210	€ 149
Adjustable V-block	906.600	€ 42
Pair of steel V-blocks ¹	666.550	€ 93
Pair of granite V-blocks ¹	402.155	€ 265
N! Pair of magnetic induction V-blocks ¹	909.378	€ 44

Set of steel parallel blocks

- Set of 12, 14 or 24 pairs.
- Ground in matched pairs.
- Dimensions: length 100, 125 or 150 mm (various height sizes).



Set of steel parallel blocks

909.800 **€79**

Magnetic holders

- Angles 45°, 90° and 135°.
- Dimensions:
h x w: 80 x 120 mm, thickness 14 mm¹,
h x w: 100 x 155 mm, thickness 17 mm².



N! Holder 8 kg¹ 909.342 **€11.90**

N! Holder 20 kg² 909.332 **€12.30**

Precision vises

Hardened precision vises for accurate measurements and machine operations.

- Various models available.



N! Precision vise 909.734 **€100**

N! Universal precision vise 909.752 **€809**

Digital tachometers laser/contact, contact, laser

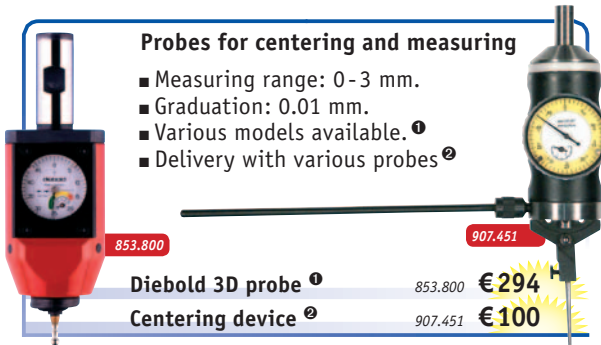
- Measuring range laser: 2.5 - 99 999 rpm.
- Measuring range contact: 0.5 - 19 999 rpm, 0.05 - 1999.9 m/min.



Digital tachometer contact model from **€54**

Probes for centering and measuring

- Measuring range: 0-3 mm.
- Graduation: 0.01 mm.
- Various models available.¹
- Delivery with various probes²



Diebold 3D probe¹ 853.800 **€294**

Centering device² 907.451 **€100**

LED lamp and magnifier on magnetic stand

- Total length: 215 mm¹ or 280 mm².
- Magnetic force: 120 N³ or 600 N⁴.
- Magnification: 2x (ø 90 mm).⁵
- 3 batteries type AAA.⁶

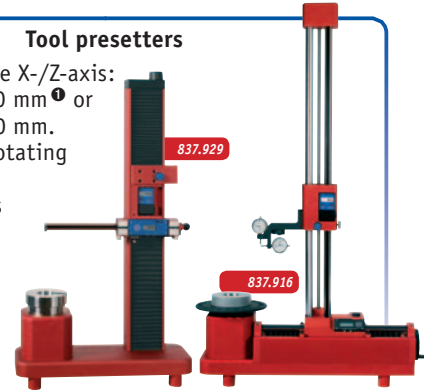


N! LED lamp on stand^{1,3,6} 909.607 **€26.00**

N! Magnifier on stand^{4,5,6} 909.609 **€23.70**

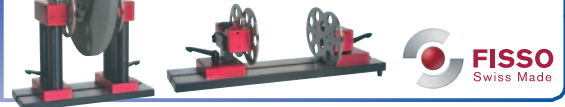
Tool presetters

- Measuring range X-/Z-axis: 160 (ø 320), 320 mm¹ or 260 (ø 520), 520 mm.
- Delivery incl. rotating chuck ISO 40 (various chucks and reductions available).



Tool presetter¹ 837.929 **€2150**

Fisso run out testers and balancing units



N!

FISSO
Swiss Made

Refractometers

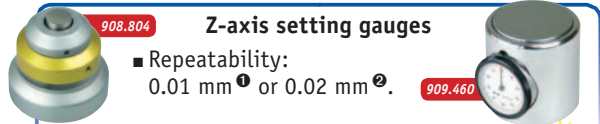
- Measuring range: 0 - 10% or 0 - 32% Brix.



Refractometer 0 - 10% Brix, 0.1% 909.079 **€90**

Z-axis setting gauges

- Repeatability: 0.01 mm¹ or 0.02 mm².



Z-axis setting gauge LED indication¹ 908.804 **€116**

N! Z-axis setting gauge² 909.460 **€117**

Edge finders

- Delivery in steel, ceramic or TiN.¹
- Steel model with LED indication.²



N! Edge finders¹ from **€18.50**

Edge finders LED indication² from **€43.00**

Digital protractors/spirit levels

- Various models available.



Digital protractor/spirit level 908.926 **€56**

Digital protractor/spirit level 906.476 **€45**

Universal digital bevel protractors

- Measuring range: 0-180° (resolution: 0.05°) ① or 0-360° (resolution: 0.01°) ②.



- Also available with rulers 300 mm and 500 mm. ③

N! Bevel protractor with rulers 200 mm ②③ 909.505 **€29.90**

N! Bevel protractor ① 909.500 **€98.00**

N! Bevel protractor with spirit level ② 909.503 **€45.00**

Protractors

- Measuring range: -360° to +360° ① or 4x90° ②.
- Delivery incl. blade (single blades available from 150 to 1000 mm).



Protractor ① 907.885 **€199**

Bevel protractor with magnifier ② 906.502 **€43**

Spirit levels

Spirit levels, frame spirit levels and circular spirit levels.

- Various models available.



Mitutoyo Mitutoyo Surftest SJ-210 surface roughness tester

- More than 30 roughness parameters.
- Measuring length: 17.5 mm.
- Separable drive unit and probe.
- 2.4" color display; e.g. display of roughness profile.



Mitutoyo Surftest SJ-210 178.560 **€2 090**

TESA Rugosurf 20 surface roughness tester

- 15 roughness parameters.
- Measuring length: 16 mm.
- High measuring speed.



N! TESA Rugosurf 20 783.499 **€1 908**

Roughness specimens

Various roughness specimens available individually or in a set.



Roughness specimens from **€93**

Portable Shore A or D hardness testers

- Measuring range: 20-90 Shore ① or 0-100 Shore ②.
- Graduation: 1 Shore ③ of 0.1 Shore ④.



Shore hardness tester ①③ from **€112**

Digital Shore hardness tester ②④ from **€308**

Shore test block sets

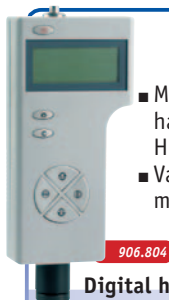


N! Shore A test block set 909.430 **€96**

N! Shore D test block set 909.431 **€73**

Portable digital hardness testers

- Measuring ranges: hardness parameters HLD, HB, HRC, HV, HRB, HSD. ①
- Various external impact modules available. ②



Digital hardness tester ①② 906.804 **€1 152**

Digital hardness tester HRC 774.075 **€1 060**

Mitutoyo HDS
Digimatic height gauges

■ Measuring range: 300 or 600 mm.

Mitutoyo QM-Height 350/600
Manually controlled height gauges.

■ Measuring range: 350 or 600 mm.

Mitutoyo Linear Height LH-600
Motorized universal height gauges for very accurate 1D and 2D measurements.

■ Measuring range: 972 mm.

Mitutoyo HDS 300	570.302	€ 525
Mitutoyo QM-Height 350	518.224	€ 3 130
Mitutoyo Linear Height LH-600 DG	518.342	€ 4 760*

** promotion price Mitutoyo: valid from May 1st until July 31st 2012*

Granite surface plate

■ Available with accuracy classes 00, 0 and 1 (DIN 876).
■ Many sizes available.

Surface plate stand
Models available for various sizes.
■ Standard working height: 900 mm.

Surface plates and stands are available from stock. Delivery ex Groningen, Netherlands.

Surface plate 1000x630x150 mm (DIN 876/0)	402.028	€ 751.00
Surface plate stand 1000x630x150 mm	131.035	€ 312.00
Cover 1000x630 mm	402.257	€ 31.90
Cleaner 0.4 kg	407.301	€ 13.80

TESA-Hite Magna/-Hite 400/700
Manually controlled height gauges.

■ Measuring range: 415 or 715 mm.

TESA-Hite Plus M 400/700
Motorized universal height gauges.

■ Measuring range: 405 or 705 mm.

TESA Micro-Hite Plus M 350/600/900
Motorized accurate height gauges for 1D and 2D measurements.

■ Measuring range: 365, 615 or 920 mm.

TESA-Hite Magna 400	782.947	€ 2 240*
TESA-Hite Plus M 400	779.046	€ 4 190*
TESA Micro-Hite Plus M 350	782.775	€ 4 290*
2D Power Panel Plus M	782.779	€ 900*

** promotion price TESA: valid from May 1st until August 31st 2012*

Graduated rulers
Various models available.

Graduated ruler from €0.90

Digital horizontal and vertical scale units

■ Available up to 1000 mm.
■ Resolution: 0.01 mm.

Digital scale unit from €44

Circumference tapes
Various models (lengths and materials) available.

Circumference tape from €39.70

Precision tapes

■ Resolution: 1 mm.
■ Various measuring tapes available.

Measuring tape from € 1.40
Digital measuring tape 5 m 909.341 €27.40

Granite surface plate with stand
With the purchase of a **TESA** or **Mitutoyo** height gauge: granite surface plate (1200x800x150 mm, DIN 876/00) with stand and cleaner: only €1 099

Height and scribing gauges

■ Available up to 1000 mm.

Height gauge from € 36.60
Digital height gauge from € 107.00

Leica DISTO laser distance meters

■ Swiss technology.

Leica DISTO from € 169

Peak magnifiers

PEAK

- Various models and magnifications available.
- Various scales available.



Stand magnifier 10x	905.112	€13.70
Eye magnifier 10x	905.394	€38.80
Folding magnifier 9x	905.230	€9.70

PEAK

Peak scale magnifiers

- Scale value: 0.1 mm.
- Also available with illumination.
- Also available in set with five different scales.
- Various scales available.



Scale magnifier 7x	905.140	€43
Scale magnifier 10x	905.180	€60

PEAK

Peak zoom magnifiers and telecentric magnifier

- Stepless zoom, with click-stop on 8/10/12/14/16x^① or 10/15/20x.
- Scale value: 0.1 mm.



Zoom magnifier 8-16x ^①	905.197	€225
Telecentric magnifier 7x	905.136	€149

Peak pen microscopes

- Various magnifications available.
- Also available with a fixed scale.



PEAK

Pen microscope 25x	905.267	€41
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PEAK

Peak stand microscopes

- Scale value: 0.05 mm^① or 0.1 mm^②.
- Various magnifications and scales available.
- EIM (with erect image) and CIL (with coaxial lightsource) models are also available..



Stand microscope 25x ^①	905.249	€137
Stand microscope 20x ^②	905.320	€263

Video measuring microscopes USB

Dino-Lite
Digital Microscope

- Magnification: 10-70x, 200x.
- Illumination: 8 LED white ring light.
- Measuring of distances, radii and angles.
- Windows XP/Vista/7.
- Industrial model: aluminum casing.
- More microscopes and stands available.



Video measuring microscope 1.3 Mpx	774.081	€274
N! Video measuring microscope 5 Mpx ^①	774.129	€570
Stand with holder	774.095	€99

Light magnifiers fluorescent/LED

- Magnification: 1.75x.
- Available with base or table clamp and in LED or fluorescent model.



N! Light magnifier fluoresc., with table clamp	909.650	€64
N! Light magnifier LED, with base	909.649	€54

PEAK

Peak various magnifiers



Stereo microscopes with stepless zoom SSM-E

- Magnification from 10x to 40x smoothly adjustable with standard eyepieces (10x).
- Incident illumination and backlight.
- Available with camera connection (SSM-3E models).



909.009

908.998

Stereo microscope with stepless zoom from **€298**

Stereo zoom microscopes SSM-3/5/10/20

- Supplied with double objective 2x/4x, 1x/2x and 1x/3x.
- Magnification 10x, 20x, 30x or 40x with standard eyepieces (10x).
- Available with incident illumination and backlight.
- Various models available.



909.005

909.007

Stereo zoom microscope from **€101**

LCD microscope

- Screen: 8" color.
- Zoom lens: 10-85x.
- Working distance: 10.5 cm.
- Crosshair can be toggled on/off.
- For mounting on stand 909.405 the stand axis 870.006 is required.



870.006

909.406

909.405

N! LCD microscope head 909.406 **€799**

N! AC adapter 334.695 **€28**

N! Stand with illumination 909.405 **€100**

N! Stand axis 400 mm 870.006 **€26**

Options for stereo zoom microscopes SSM-10/20/-E

Pairs of eyepieces and auxiliary lenses

- Pairs of eyepieces 5x, 10x, 15x and 20x (for the SSM-E models are only 10x and 20x available).
- Eyepieces with crosshair 10x and 20x (per piece) available for the SSM-E models.
- Auxiliary lenses 0.5x, 0.75x, 1.5x and 2x (only available for the SSM-10/20/E models).



Pair of eyepieces from **€23.20**

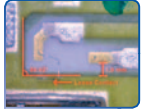
Auxiliary lens from **€39.50**

774.145

USB microscope cameras



- For use in the ocular (\varnothing 30 mm) of an SSM microscope, or in the adapter bushing (\varnothing 23 mm) of the SSM-3E modellen.
- Measuring of distances, radii and angles.
- Windows XP/Vista/7.



N! USB camera 1.3 Mpx \varnothing 23 mm 774.145 **€189**

N! USB camera 1.3 Mpx \varnothing 23/30 mm 774.146 **€209**

N! USB camera 5 Mpx \varnothing 23 mm 774.147 **€349**

N! USB camera 5 Mpx \varnothing 30 mm 774.148 **€369**

Other options



909.024

Circular fluorescent tube

Halogen optical fiber illumination

909.028 + 909.027



909.085

Ring light 60 LEDs

Halogen optical fiber ring light

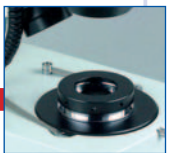
909.029 + 909.027



908.999

Dark field condenser

909.022



XY meas. table

Stereo microscope SSM

- Magnification from 20x.
- Incident illumination (LED).

909.012

Stereo microscope 909.012 **€34.40**



Infrared thermometers

- Measuring range:
 - 55 to 250°C^①,
 - 60 to 760°C^②.
- Optics ratio:
 - 6:1^③, 30:1^④.
- Accurate measurements at small distance (18 mm) with a spot size 2.5 mm (measuring range: -55 to 220°C).^⑤



Infrared thermometer 0.1°C^{①③} 908.800 € 63.00

N! Infrared thermometer 0.1°C^{②④} 909.412 € 138.00

N! Infrared thermometer 0.2°C^⑤ 909.413 € 36.10

Digital thermometer

- Measuring range: -50 to 750°C.
- Resolution: 1°C.



Digital thermometer 909.145 € 28.40

Smartbox USB

1-channel interface for connecting instruments to your PC.

- Input: RS232C (e.g. for TESA) and Mitutoyo Digimatic.
- Plug&play connection; no drivers.
- Footswitch optionally available.



N! Smartbox USB

348.370 € 129

Remote Instrument Display

2-channel display unit for read-out of your digital measuring instruments with Go/NoGo indication.

- Input: RS232C (e.g. for TESA) and Mitutoyo Digimatic.
- RS232C data output, keyboard data output option.
- Well readable tolerance bars.
- Footswitch optionally available.



Remote Instrument Display

348.043 € 315

Digital thickness gauge

- Measuring range for steel: 1.2-200 mm.
- Resolution: 0.1 mm.
- Meas. principle ultrasonic.



Thickness gauge 909.139 € 340

Contact fluid 906.805 € 25

N! Test block for calibration (2.5-25 mm) 909.398 € 116

Digital coating thickness gauges

Measurements of coating thickness (non-magnetic layers) on a magnetic (ferro) and/or non-magnetic (non-ferro) substrate. With integrated or external sensor.

- Measuring range: 0-1250 µm.
- Resolution: 0.1 µm (<100 µm), 1 µm (>100 µm).



Coating thickness gauge from € 296

Dynamometers

Measure push and pull.

- Available up to 500 N.
- Digital models are also available.



Dynamometer from € 140

Strain gauges

- Measuring range: 0.006-5 N.
- Flat touch surface (ø 1 mm bore).
- With peak pointer.

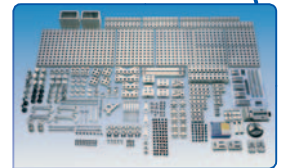
909.393

N! Strain gauge from € 44



Alufix fixture system

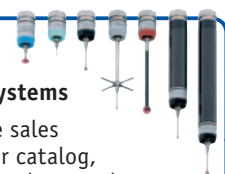
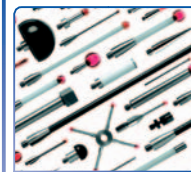
Alufix for object fixtures for measuring machines and prototype constructions. The system is available in standard sets as well as in single parts.



RENISHAW

Probes and probe systems

Besides the sales line-up in our catalog, we can supply the complete Renishaw program. Also for your machine.



DeMeet measuring machines

The DeMeet video (optical), touch probe and multi-sensor (optical and probing combined) CNC measuring machines.

The application of quality components from well-known, specialized manufacturers ensures excellent performance and highly accurate measurements for high precision quality control on the production floor as well as in measuring laboratories.

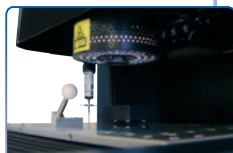
Applications of video and multi-sensor measuring are among others in the precision engineering, medical, plastics and electronics industry.

DeMeet



Optical and multi-sensor measurements

Non-contact measurements in 2D and/or 3D are performed without the risk of product deformation or damage.



With the DeMeet Combo model both principles are integrated and measurements can be performed by the optical and the probing system.

Product fixtures

DF system

Fixture system for optical and touch probe measurements.



Custom fixture system

Development and production of customer specific solutions

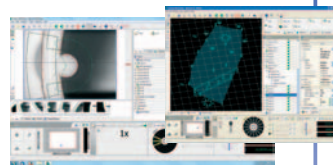


DF basic set (65 parts)

from €960

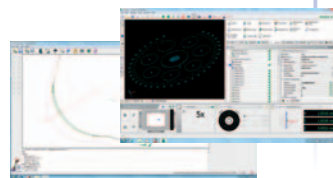
Approve for DeMeet Multi-sensor software

Approve for DeMeet is true multi-sensor software for combined video and probe measurements in one measuring program and guarantees fast and easy operation to perform your measuring tasks. The accuracy of the Approve for DeMeet measuring software was evaluated by the PTB (Physikalisch-Technische Bundesanstalt, Braunschweig, Germany) and placed in the class of the smallest deviations.



DeMeet Shape CAD analysis software

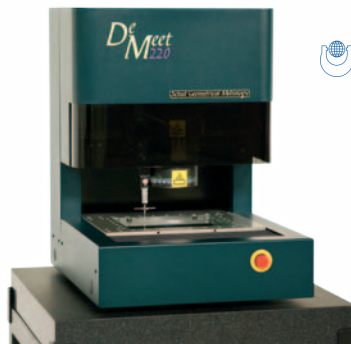
DeMeet Shape is software for contour and geometric analysis for video and touch probe measurements. 2D/3D CAD interface for graphical analysis of measurements and fitting of measuring results. Generating a clear measuring report with graphical and measuring value data.



We can demonstrate the DeMeet in your company. Please contact one of our technical advisors for a test measurement of your product or for a demonstration.

DeMeet-220 video measuring machine

- Full CNC control.
- Measuring range (mm):
X=220, Y=150, Z=100.
- Incl. segmented ringlight and PC framegrabber board.



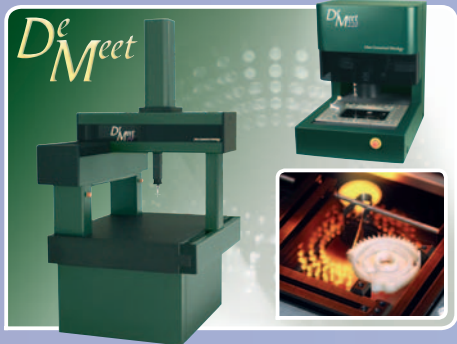
DeMeet-220

from €17900*

* excl. PC system, training and installation

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The instruments in this catalog supplement are only a few of our entire range. Ask our sales department about our entire range, special offers and our delivery times. Also ask for our general catalog!



The terms of sales and delivery as mentioned in the catalog *Measuring instruments and systems 2011/2012* apply.
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