

optacom stylus tip icons:



Finding instead of searching!



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Finding instead of searching!



Angle: This stylus tip is well suited to measure threads and parts with a pitch.



Thread: This stylus tip is well suited to measure threads, ball screws and parts with a pitch.



Track: This stylus tip is well suited to measure parts with symmetric contour. For example - ball screws.



Roughness: This stylus tip is well suited to measure roughness



Top/down external: This stylus tip is best used for top/down measurement.



Top/down internal: This stylus tip is best used for top/down measurements within drill holes.



Gear: This stylus tip is well suited for measurements of geometries in combination with our RSY 240-25. For example – gear wheels.

Coatings and Delivery Times



Green: Standard article in stock. Larger quantities available.



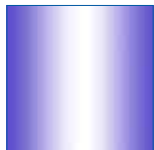
Yellow: Smaller quantities in stock. Limited quantities available or deliverable within 3-4 weeks.



Red: Special article not in stock. Available within 8-10 weeks.

Coated stylus tips:

Additionally to our normal stylus tips, models with special coating are available:

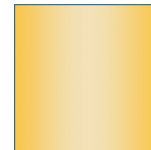


optaBlue:

Reduces sliding friction in case of steel surfaces

Layer thickness: 3 μm

Hardness: 3,500 HV



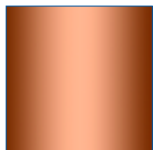
optaGold:

Reduces sliding friction in case of steel surfaces

Lifetime increased by factor 2

Layer thickness: 4 – 10 μm

Hardness: 3,500 HV



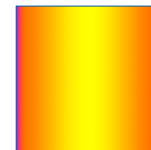
optaLox:

Reduces sliding friction in case of steel surfaces

Lifetime increased by factor 3

Layer thickness: 1 μm - 3 μm

Hardness: 3,800 HV



optaDiamond:

Reduces sliding friction in case of steel surfaces

Considerably saves cost compared with conventional diamond tips

Layer thickness: < 3 μm

Hardness: 6,000 - 8,000 HV

Upon request, all of our stylus tips can be coated as desired



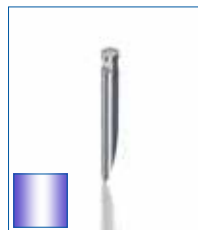
Stylus tip 59.5 mm Order no.: 101-010-595
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°



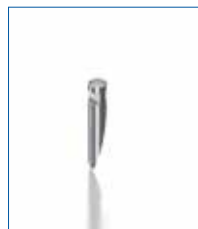
Stylus tip 33 mm Order no.: 101-010-330
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°



Stylus tip 33 mm Order no.: 101-011-330
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°
with optaGold coating



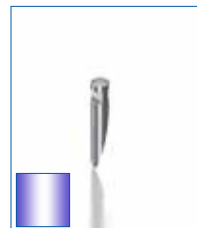
Stylus tip 33 mm Order no.: 101-012-330
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°
with optaBlue coating



Stylus tip 20.5 mm Order no.: 101-010-205
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°



Stylus tip 20.5 mm Order no.: 101-011-205
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°
with optaGold coating



Stylus tip 20.5 mm Order no.: 101-012-205
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°
with optaBlue coating



Stylus tip 13 mm Order no.: 101-030-130
made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 19°



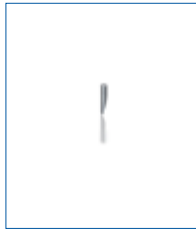
Stylus tip 7 mm Order no.: 101-010-070
made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 19°

Stylus tip 7 mm Order no.: 101-010-070-E
Glued (the existing tracing arm is required)



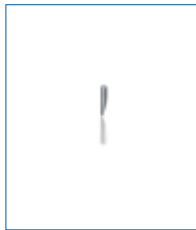
Stylus tip 6 mm **Order no.: 101-010-060**
made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 19°

Stylus tip 6 mm **Order no.: 101-010-060-E**
Glued (the existing tracing arm is required)

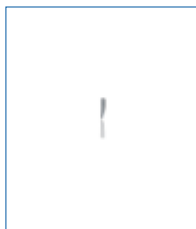


Stylus tip 4.5 mm **Order no.: 101-010-045**
made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 19°

Stylus tip 4.5 mm **Order no.: 101-010-045-E**
Glued (the existing tracing arm is required)

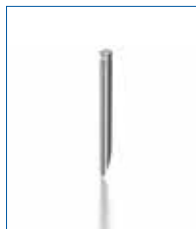
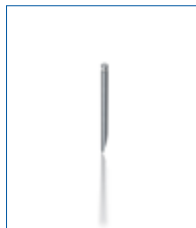
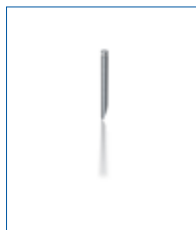


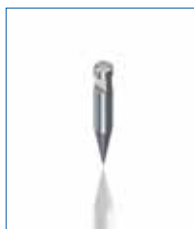
Stylus tip 3.5 mm **Order no.: 101-030-035**
made of carbide, $\varnothing$ 0.5 mm / R: 25 μ m / A: 19°



Stylus tip 2.5 mm **Order no.: 101-010-025**
made of carbide, $\varnothing$ 0.5 mm / R: 25 μ m / A: 19°

Stylus tip 2.5 mm **Order no.: 101-010-025-E**
Glued (the existing tracing arm is required)

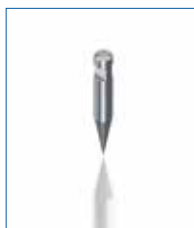
**Stylus tip 105 mm****Order no.: 101-010-105**made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°**Stylus tip 90 mm****Order no.: 101-010-900**made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°**Stylus tip 25 mm****Order no.: 101-010-250**made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 19°**Stylus tip 10 mm****Order no.: 101-010-100**made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 19°



**Stylus tip 20.5 mm
conical**

Order no.: 101-130-620

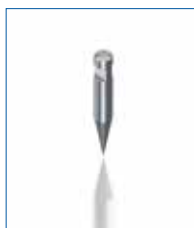
made of carbide, $\varnothing$ 3.5 mm / R: 60 μ m



**Stylus tip 20.5 mm
conical**

Order no.: 101-134-005

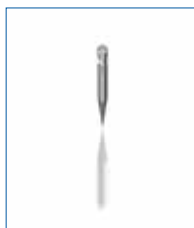
made of carbide, $\varnothing$ 3.5 mm, R: 0,05 mm / A: 24°



**Stylus tip 20.5 mm
conical**

Order no.: 101-134-010

made of carbide, $\varnothing$ 3.5 mm, R: 0,1 mm / A: 24°



**Stylus tip 12 mm
conical**

Order no.: 101-140-121

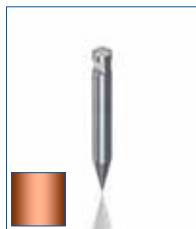
made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 20°


Stylus tip 59.5 mm conical **Order no.: 101-110-595**

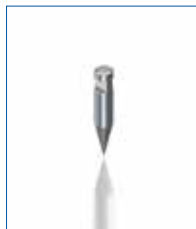
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 24°


Stylus tip 33 mm conical **Order no.: 101-110-330**

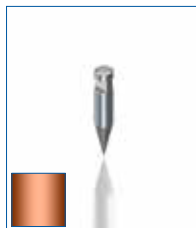
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 24°


Stylus tip 33 mm conical **Order no.: 101-111-330**

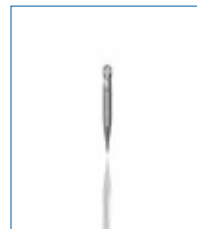
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 24°
with optaLox coating


Stylus tip 20.5 mm conical **Order no.: 101-110-205**

made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 24°


Stylus tip 20.5 mm conical **Order no.: 101-111-205**

made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 24°
with optaLox coating


Stylus tip 6 mm conical **Order no.: 101-110-060**

made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 24°



**Roughness stylus tip
33 mm conical**

Order no.: 101-430-335

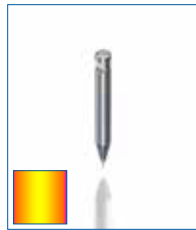
made of carbide, $\varnothing$ 3.5 mm / A: 24° with diamond /
R: 5 μ m / A: 90°



**Roughness stylus tip
33 mm conical**

Order no.: 101-430-332

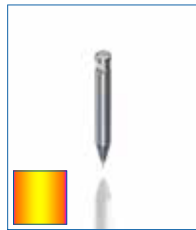
made of carbide, $\varnothing$ 3.5 mm / A: 24° with diamond /
R: 2 μ m / A: 90°



**Roughness stylus tip
33 mm conical**

Order no.: 101-133-330

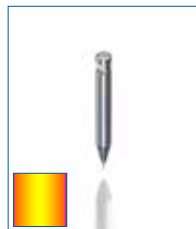
made of carbide, $\varnothing$ 3.5 mm / A: 24°
R: 2 μ m / A: 90° / with optaDiamond coating



**Roughness stylus tip
20.5 mm conical**

Order no.: 101-133-205

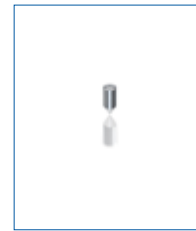
made of carbide, $\varnothing$ 3.5 mm / A: 24°
R: 2 μ m / A: 90° / with optaDiamond coating



**Roughness stylus tip
14 mm conical**

Order no.: 101-133-140

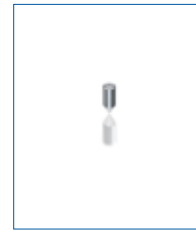
made of carbide, $\varnothing$ 3.5 mm / A: 24°
R: 2 μ m / A: 47° / with optaDiamond coating



**Roughness stylus tip
3 mm conical**

Order no.: 101-430-035

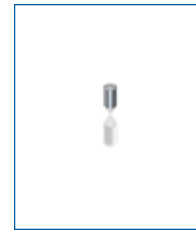
made of carbide, $\varnothing$ 1 mm / A: 24° with diamond /
R: 5 μ m / A: 90°



**Roughness stylus tip
3 mm conical**

Order no.: 101-430-032

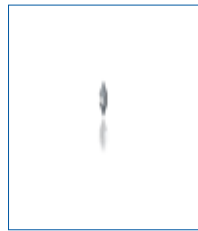
made of carbide, $\varnothing$ 1 mm / A: 24° with diamond /
R: 2 μ m / A: 90°

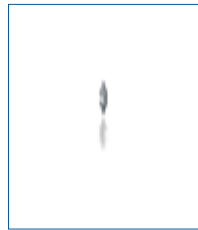


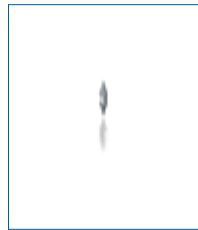
**Roughness stylus tip
3 mm conical**

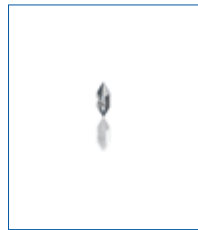
Order no.: 101-431-032

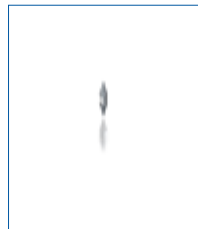
made of carbide, $\varnothing$ 1 mm / A: 24° with diamond /
R: 2 μ m / A: 60°

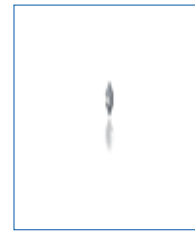

Double-Stylus tip 25 mm conical
Order no.: 101-330-250

 made of carbide, $\varnothing$ 2 mm / R: 25 μ m / A: 2 x 24°
for topdown measurements

Double-Stylus tip 18 mm conical
Order no.: 101-330-180

 made of carbide, $\varnothing$ 2 mm / R: 25 μ m / double-sided cone 24°

Double-Stylus tip 13 mm conical
Order no.: 101-330-130

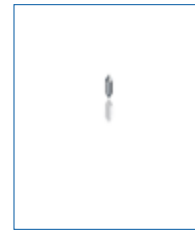
 made of carbide, $\varnothing$ 2 mm / R: 25 μ m / double-sided cone 24°

Double-Stylus tip 12 mm conical
Order no.: 101-330-120

 made of carbide, $\varnothing$ 3.5 mm / R: 0.1 mm / with double-sided cone 48°

Double-Tastsp. 9 mm conical
Order no.: 101-330-090

 made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 2 x 24°
for topdown measurements

Double-Tastsp. 6 mm conical
Order no.: 101-330-060

 made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 2 x 24°
for topdown measurements

Double-Stylus tip 4.4-24°-0.7 conical
Order no.: 101-330-044

 made of carbide, $\varnothing$ 1 x 4.4 mm / R: 25 μ m / with double-sided cone 24° x 0.7 mm long

Double-Stylus tip 4.4-48°-0.7 conical
Order no.: 101-330-144

 made of carbide, $\varnothing$ 1 x 4.4 mm / R: 25 μ m / with double-sided cone 48° x 0.7 mm long



Double-Stylus tip 34 mm **Order no.: 101-230-340**
made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 2 x 12°
for topdown measurements



Double-Stylus tip 25 mm **Order no.: 101-230-250**
made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 2 x 19°
for topdown measurements.



Double-Stylus tip 9 mm **Order no.: 101-230-090**
made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 2 x 19°
for topdown measurements



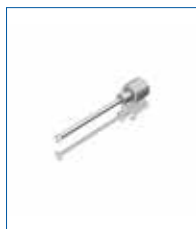
Double-Stylus tip 6 mm **Order no.: 101-230-060**
made of carbide, $\varnothing$ 1 mm / R: 25 μ m / A: 2 x 24°
for topdown measurements


Disc stylus system 10 mm **Order no.: 101-530-10K**

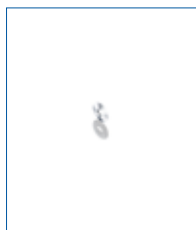
Disc stylus (see below) and arm extension, including quick-release fastener (QRF), length 51 mm from front edge of QRF


Disc stylus 10 mm **Order no.: 101-530-100**

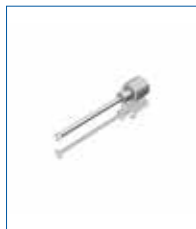
single item, made of carbide, $\varnothing$ 10 mm / R: 25 μ m / A: 2 x 12°


Disc stylus system 6 mm **Order no.: 101-530-06K**

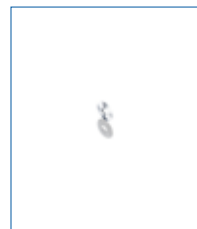
Disc stylus (see below) and arm extension, including quick-release fastener (QRF), length 51 mm from front edge of QRF


Disc stylus 6 mm **Order no.: 101-530-060**

single item, made of carbide, $\varnothing$ 6 mm / R: 25 μ m / A: 2 x 12°


Disc stylus system 4 mm **Order no.: 101-530-04K**

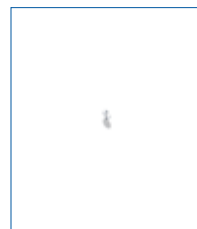
Disc stylus (see below) and arm extension, including quick-release fastener (QRF), length 100 mm from front edge of QRF


Disc stylus 4 mm
Order no.: 101-530-040

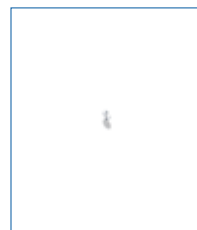
single item, made of carbide, $\varnothing$ 4 mm / R: 25 μ m / A: 2 x 12°


Disc stylus system 3 mm **Order no.: 101-530-03K**

Disc stylus (see below) and arm extension, including quick-release fastener (QRF), length 25 mm from front edge of QRF


Disc stylus 3 mm
Order no.: 101-530-030

single item, made of carbide, $\varnothing$ 3 mm / R: 25 μ m / A: 2 x 12°


Measuring plate 3 mm
Order no.: 101-530-03T

Measuring plate made of VHM, $\varnothing$ 3 x 0.36 x $\varnothing$ 0.5 mm
single-sided slope 24° / R: 0.025 / rounded and polished



Disc stylus system 1 mm **Order no.: 101-530-01K**
Disc stylus (see below) incl. quick-release fastener (QRF)



Disc stylus 1 mm **Order no.: 101-530-010**
single item, $\varnothing$ 1 mm / R: 25 μ m / A: 2 x 12°, including extension
(made of one piece - carbide), length 25 mm from front edge
of quick-release fastener



topdown-Quick-release fastener Order no.: 101-630-0TD
for Stylus tips with diameters 3.5 mm for topdown measurements; delivery without stylus tips!



Quick-release fastener Order no.: 101-630-035
for Stylus tips with diameters of 3.5 mm



Quick-release fastener Order no.: 101-630-040
for stylus tips and absorption for dial test indicator with $\varnothing$ 4 mm



Clamping shaft for dial test indicator $\varnothing$ \$ H7 Order no.: 101-631-065
needs Quick-release fastener Order no.: 101-630-040



Miniature stylus arm for removable stylus tip $\varnothing$ 1 mm incl. allen key Order no.: 101-631-060
including QRF, standard length 50 mm (other lengths upon request); delivery without stylus tips!



Miniature stylus arm for removable stylus tip $\varnothing$ 2 mm incl. allen key Order no.: 101-631-062
including QRF, standard length 150 mm (other lengths upon request); delivery without stylus tips!



Miniature stylus arm with glued $\varnothing$ 0.5 mm Stylus tip / length 3.5 mm Order no.: 101-631-035
including QRF, standard length 35 mm (other lengths upon request)



Miniature stylus arm with glued $\varnothing$ 0.5 mm Stylus tip / length 2.5 mm Order no.: 101-631-025
including QRF, standard length 35 mm (other lengths upon request)



Miniature stylus arm for flush-bonded Stylus tip $\varnothing$ 1 mm Order no.: 101-631-010
including QRF, standard length 50 mm; delivery without stylus tips!



Miniature stylus arm for flush-bonded Stylus tip $\varnothing$ 1 mm Order no.: 101-631-011
including QRF, standard length 100 mm; delivery without stylus tips!



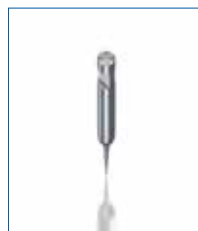
Miniature stylus arm with stylus tip ø 3.5 mm
incl. allen key **Order no.: 101-631-QA1**
 including QRF, standard length 25 mm, length of cross arm 25 mm; delivery without stylus tips!



Miniature stylus arm with stylus tip ø 3.5 mm
incl. allen key **Order no.: 101-631-QA3,5**
 including QRF, standard length 50 mm, length of cross arm 25 mm; delivery without stylus tips!



Small diamond stylus arm **Order no.: 101-633-OKL**
 Clamping ø 3 mm, measurement length 5 mm, shaft ø 1 mm;
 for topdown roughness measurements in slots and cut-ins
 min. width of 2 mm.

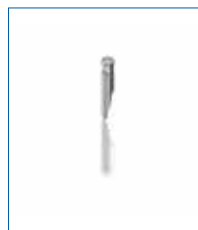

**Special-Stylus tip
20.5 mm conical**
Order no.: 101-130-120

 made of carbide, $\varnothing$ 3.5 mm / R: 0.1 mm / L: 5 mm /
A: 10°

**Special-Stylus tip
20.5 mm conical**
Order no.: 101-130-420

 made of carbide, $\varnothing$ 3.5 mm / R: 0.45 mm / L: 5 mm /
A: 10°

**Special-Stylus tip
16.35 mm conical**
Order no.: 101-030-16,35

 made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 16°

Special-Stylus tip 20.5 mm
Order no.: 101-030-820

 made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 8° L: 10 mm

Special-Stylus tip 20.5 mm
Order no.: 101-030-628

 made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / 6° auf 8 mm

Special-Stylus tip 20.5 mm
Order no.: 101-030-620

 made of carbide, $\varnothing$ 3.5 mm / R: 25 μ m / A: 6° L: 3 mm

Special-Stylus tip 13 mm
Order no.: 101-830-130

 made of carbide, $\varnothing$ 2 x $\varnothing$ 1 mm / R: 25 μ m / A: 12°

Ceramic Stylus tip 33 mm
Order no.: 101-640-330

 made of ceramics, $\varnothing$ 3.5 mm / R: 25 μ m / A: 12°

**Ceramic Stylus tip
20.5 mm conical**
Order no.: 101-641-205

 made of ceramics, $\varnothing$ 3.5 mm / R: 25 μ m / A: 24°

**Ceramic Stylus tip
14 mm conical**
Order no.: 101-641-140

 made of ceramics, $\varnothing$ 3.5 mm / R: 5 μ m / A: 24°



Straight ruby stylus with M2 thread

Order no.: 101-178-000

with ruby ball $\varnothing$ 1 mm / L: 10.5 mm / shaft - $\varnothing$ 0.8 mm / M2 = 6.5 mm / DG = 3 mm



Straight ruby stylus with M3 thread

Order no.: 101-178-001

with ruby ball $\varnothing$ 1 mm / L: 10.5 mm / shaft - $\varnothing$ 0.8 mm / 1 mm / ML + ML 1 = 5/5.5 mm / DG = 4 mm



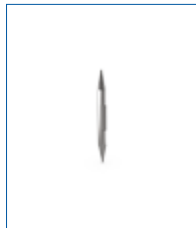
Straight ruby stylus with M3 thread

Order no.: 101-178-002

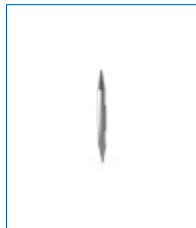
with ruby ball $\varnothing$ 1 mm / L= 8 mm / shaft - $\varnothing$ 1 mm / ML = 3 mm / DG = 4 mm

**Stylus tip for trapezoidal threads****8x1.5 - 14x3****Order no.: 101-731-T08**

made of carbide, $\varnothing$ 0.6 / R: 50 μ m / A: 2 x 22.5° /
length 6 mm, for topdown measurements

**Stylus tip for trapezoidal threads****16x2 - 20x4****Order no.: 101-731-T16**

made of carbide, $\varnothing$ 1.1 / R: 50 μ m / A: 2 x 22.5° /
length 11 mm, for topdown measurements

**Stylus tip for trapezoidal threads****22x3 - 60x9****Order no.: 101-731-T22/D1,1**

made of carbide, $\varnothing$ 1.1 / R: 50 μ m / A: 2 x 22.5° /
length 17 mm, for topdown measurements

**Stylus tip for trapezoidal threads****22x3 - 60x9****Order no.: 101-731-T22/D2**

made of carbide, $\varnothing$ 2 / R: 50 μ m / A: 2 x 22.5° /
length 17 mm, for topdown measurements

Carrying case with styli for trapezoidal threads

includes each 1x: 101-731-T08, 101-731-T16, 101-731-T22/D1,1, 101-731-T22/D2, 101-632-3M8,
101-632-10M30, 101-633-TSD2

Carrying case with styli for trapezoidal threads

Order no.:

101-207-014



Stylus tips for M2,5 threads Order no.: 101-730-M2,5

made of carbide, $\varnothing$ 0.5 h6 / R: 50 μ m / A: 2 x 50° /
length 2 mm, for topdown measurements



Stylus tips for M3 threads Order no.: 101-730-M03

made of carbide, $\varnothing$ 0.6 h6 / R: 50 μ m / A: 2 x 45° /
length 2.2 mm, for topdown measurements



Stylus tips for M4 threads Order no.: 101-730-M04

made of carbide, $\varnothing$ 0.6 h6 / R: 50 μ m / A: 2 x 37.5° /
length 3 mm, for topdown measurements



Stylus tips for M5-M8 threads Order no.: 101-730-M5-8

made of carbide, $\varnothing$ 0.6 h6 / R: 50 μ m / A: 2 x 37.5° /
length 3.5 mm, for topdown measurements



Stylus tips for M8-M10 threads Order no.: 101-730-M8-10

made of carbide, $\varnothing$ 0.8 h6 / R: 50 μ m / A: 2 x 37.5° /
length 5 mm, for topdown measurements



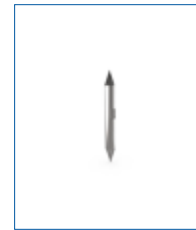
Stylus tips for M10-M30 threads Order no.: 101-730-M10-30/L8

made of carbide, $\varnothing$ 1.1 h6 / R: 50 μ m / A: 2 x 37.5° /
length 8 mm, for topdown measurements



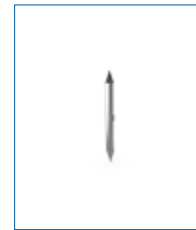
Stylus tips for M14-M30 threads Order no.: 101-730-M14-30/L10

made of carbide, $\varnothing$ 1.1 h6 / R: 50 μ m / A: 2 x 37.5° /
length 10 mm, for topdown measurements



Stylus tips for > M40 threads Order no.: 101-730-M40

made of carbide, $\varnothing$ 3.5 h6 / R: 50 μ m / A: 2 x 37.5° /
length 30 mm, for topdown measurements



Stylus tips for > M100 threads Order no.: 101-730-M100

made of carbide, $\varnothing$ 5 h6 / R: 50 μ m / A: 2 x 37.5° /
length 50 mm, for topdown measurements

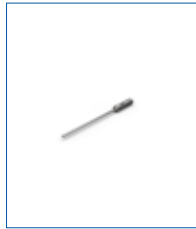
Carrying case with styli for metric-threads

each 1x: 101-730-M2,5, 101-730-M03, 101-730-M04, 101-730-M5-8, 101-730-M8-10, 101-730-M10-30/L8, 101-730-M14-30/L10, 101-730-M40, 101-730-M100, 101-632-M2,5, 101-632-5M8, 101-632-8M10, 101-632-10M30, 101-632-M30A, 101-632-M30B, 101-632-M03, 101-632-M04

Carrying case with styli for metric-threads

Order no.:

101-207-003


**Stylus arm for
thread styli for M2.5**
Order no.: 101-632-M2,5

Stylus tip with $\varnothing$ 0.5, includes quick-release fastener, total length 42.5 mm, delivery without stylus tips!


**Stylus arm for
thread styli for M3**
Order no.: 101-632-M03

Stylus tip with $\varnothing$ 0.6, includes quick-release fastener, total length 42.5 mm, delivery without stylus tips! for thread styli M3


**Stylus arm for
thread styli for M4**
Order no.: 101-632-M04

Stylus tip with $\varnothing$ 0.6, includes quick-release fastener, total length 42.5 mm, delivery without stylus tips! for thread styli M4


**Stylus arm for
thread styli for M5-M8**
Order no.: 101-632-5M8

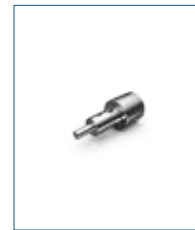
Stylus tip with $\varnothing$ 0.6, includes quick-release fastener, total length 42.5 mm, Stylus tip im delivery without stylus tips! for thread styli M5 - M8


**Stylus arm for
thread styli for M8-M10**
Order no.: 101-632-8M10

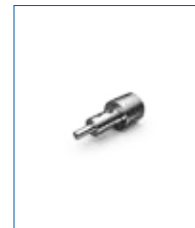
Stylus tip with $\varnothing$ 0.8, includes quick-release fastener, total length 51 mm, delivery without stylus tips!


**Stylus arm for
thread styli for M10-M30**
Order no.: 101-632-10M30

Stylus tip with $\varnothing$ 1.1, includes quick-release fastener, total length 70 mm, delivery without stylus tips!


**Quick-release fastener for
double stylus tips > M30**
Order no.: 101-632-M30A

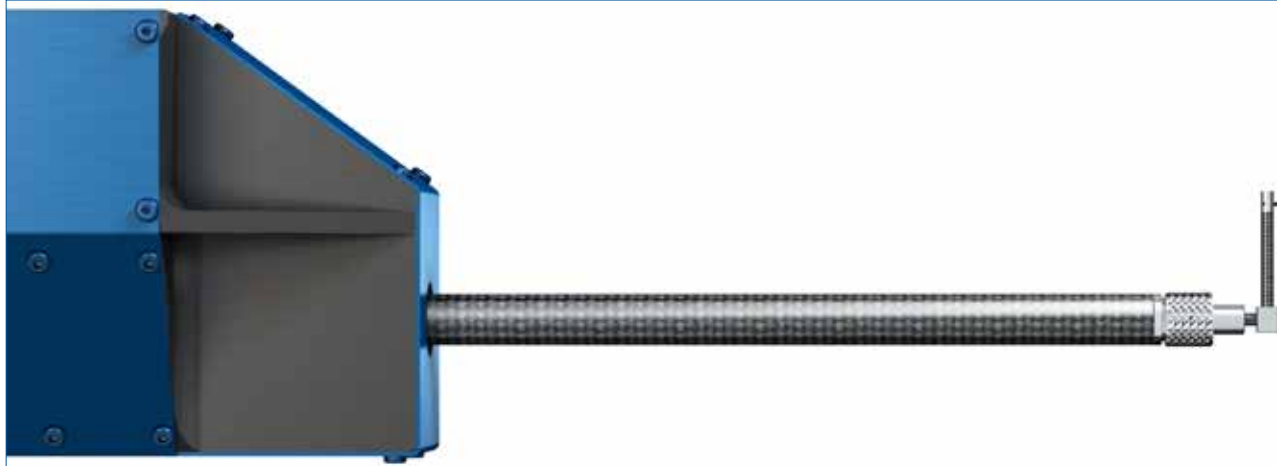
for double-stylus tips with $\varnothing$ 3.5 mm


**Quick-release fastener for
double stylus tips > M30**
Order no.: 101-632-M30B

for double-stylus tips with $\varnothing$ 5.0 mm


**Stylus arm for trapezoidal
thread styli $\varnothing$ 2.0**
Order no.: 101-633-TSD2

incl. quick-release fastener, total length 70 mm delivery without stylus tips!



Miniature stylus arm, angled 90° for 6 mm stylus tip glued at a 45° angle



Miniature tracing arm, angled for 6 mm stylus tip

A chain is only as strong as its weakest link - a measurement system is only as good as its tracing arm and stylus tip. Thus, we pay serious attention to this detail – as we do to our machines. All stylus systems are manufactured with the same care as optacom's measurement systems.

Our practice oriented and cost reducing system of various stylus tips, disc styli, and miniature tracing arms can be replaced in seconds using the practical optacom quick-release fastener.

This is shown in the daily business of calibration and measuring labs in factories worldwide.

With your input we develop and manufacture effective solutions to meet your specific measurement requirements.

We are looking forward to receive your inquiry.

