

# Nosepieces

Applicable Models


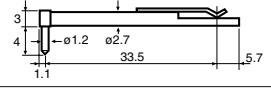

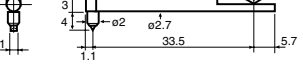

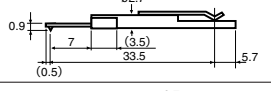

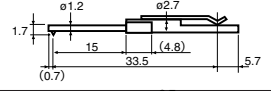



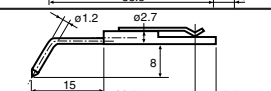

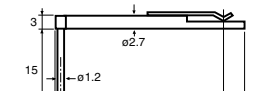

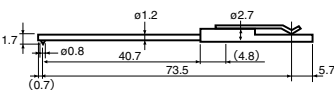

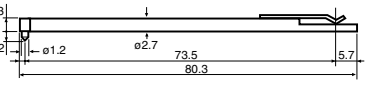

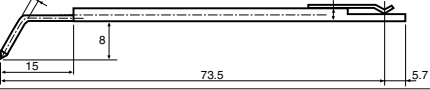

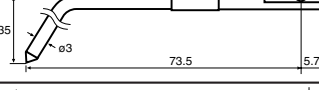

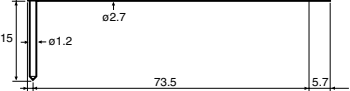

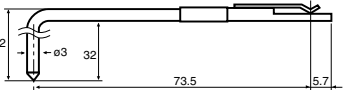

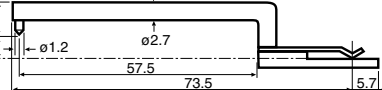
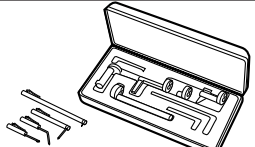
- S130A
- S1400D, S1400D-3DF
- S480A
- S1800D, S1800D-3DF
- S2800E, S2800E-3DF

Measuring Application	Model	Outer Appearance	Applicable Stylus	Skid Shape	Remarks
General purpose	010 2701		010 2501 DT43801	32mmR sapphire	<ul style="list-style-type: none"> <li>• Tip skid</li> <li>• Standard pickup built in</li> </ul>
Skidless	010 2702*		All styluses	-----	<ul style="list-style-type: none"> <li>• For protection</li> <li>• For front travel adjustment</li> </ul>
Horizontal tracing of ordinary planes	010 2703*		010 2501 DT43801		<ul style="list-style-type: none"> <li>• Both side override skid</li> <li>• Skid radius for horizontal tracing: 4.5mm</li> </ul>
Extra fine holes	010 2704		010 2511 DT43811	8mmR tool steel	<ul style="list-style-type: none"> <li>• Double sided straddling skid</li> <li>• Position adjustment with stylus required</li> </ul>
Fine holes	010 2705		010 2512 DT43812	8mmR tool steel	<ul style="list-style-type: none"> <li>• Tip skid</li> </ul>
Thin groove tooth surfaces	010 2706		010 2512 DT43812	8mmR tool steel	<ul style="list-style-type: none"> <li>• Double sided straddling skid</li> </ul>
Curved surfaces	010 2707		010 2515 DT43815	32mmR sapphire	<ul style="list-style-type: none"> <li>• Sliding skid</li> </ul>
Deep grooves	010 2708		010 2515 DT43815	32mmR sapphire	<ul style="list-style-type: none"> <li>• Double sided straddling skid</li> </ul>
Narrow deep grooves	010 2709*		010 2515 DT43815	32mmR sapphire	<ul style="list-style-type: none"> <li>• Tip skid</li> </ul>
R grooves	010 2710*		010 2515 DT43815	0.8mmR ruby	<ul style="list-style-type: none"> <li>• One side override skid</li> <li>• Magnification: 5,000 or more</li> <li>• Position adjustment with stylus required</li> <li>• Recording only</li> </ul>
Small round bars	010 2711		010 2501 DT43801	32mmR sapphire	<ul style="list-style-type: none"> <li>• Double sided straddling skid</li> <li>• Skid position adjustment required</li> <li>• Three types of skis provided for <math>\phi 2 - 4</math>, <math>\phi 4 - 8</math>, <math>\phi 8 - 16</math></li> </ul>
Long holes	010 2722*		010 2522 DT43822	32mmR sapphire	<ul style="list-style-type: none"> <li>• Tip skid</li> </ul>
Deep grooves in holes	010 2723		010 2525 DT43825	32mmR sapphire	<ul style="list-style-type: none"> <li>• Tip skid</li> <li>• Position adjustment with stylus required</li> </ul>
Extra deep grooves	010 2724		010 2526 DT43826	32mmR sapphire	<ul style="list-style-type: none"> <li>• Double sided straddling skid</li> <li>• Position adjustment with stylus required</li> </ul>
Bottom surface of O-ring grooves	010 2726		010 2525 DT43825	0.8mmR ruby	<ul style="list-style-type: none"> <li>• Double sided straddling skid</li> <li>• Magnification: 5,000 or more</li> <li>• Position adjustment with stylus required</li> </ul>

\* Indicates stylus/nose piece set (DT43800 and 010 2640).

## Replaceable Profile Styluses

- Applicable Models
- S130A      ■ S1400D, S1400D-3DF
  - S480A      ■ S1800D, S1800D-3DF
  - S2800E, S2800E-3DF


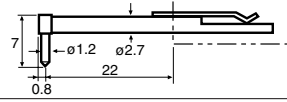

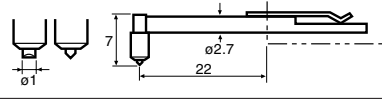

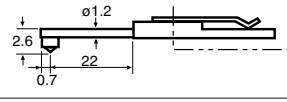

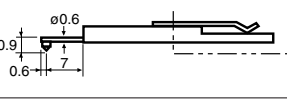

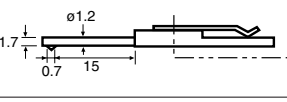

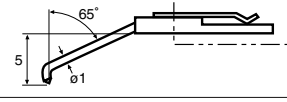



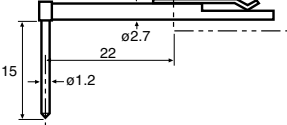

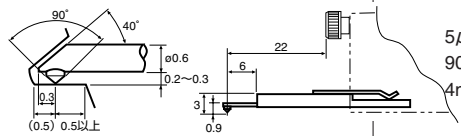

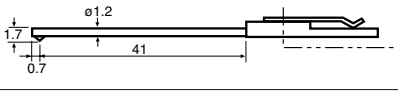

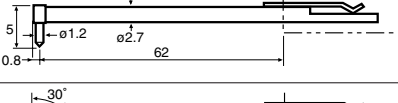

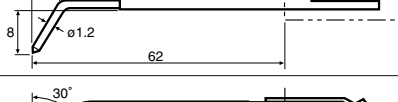

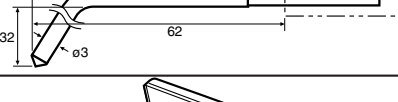
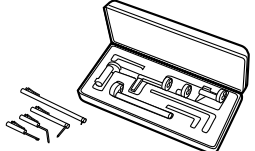
Measuring Application	Model	Outer Appearance	Specifications	Remarks
 <p>General purpose</p>	DT43801		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> <li>• Standard specifications</li> </ul>
 <p>Fine wires, knife edges</p>	DT43802		2µmR, 60° ax-shaped diamond, 0.7mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> </ul>
 <p>Extra fine holes, gear flank</p>	DT43811		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Fine holes/ thin grooves</p>	DT43812*		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Hole bottom/ conical surfaces</p>	DT43813		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Corners/ tooth surfaces</p>	DT43814*		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Deep grooves, round grooves</p>	DT43815*		2µmR, 60° conical diamond, 0.8mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Large waveform distortion</li> </ul>
 <p>Fine long holes</p>	DT43821		2µmR, 60° conical diamond, 3mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> </ul>
 <p>Low magnification, long holes</p>	DT43822*		2µmR, 60° conical diamond, 3mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×20,000 or less</li> </ul>
 <p>Low magnification, corners</p>	DT43824		2µmR, 60° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×20,000 or less</li> </ul>
 <p>Deep groove corners</p>	DT43827		2µmR, 60° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> </ul>
 <p>Deep hole grooves, O ring groove bottom surfaces</p>	DT43825		2µmR, 60° conical diamond, 3.4mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×20,000 or less</li> <li>• Large waveform distortion</li> </ul>
 <p>Extra deep grooves</p>	DT43826		2µmR, 60° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> <li>• Large waveform distortion</li> </ul>
 <p>High magnification, contour profiles</p>	DT43828		2µmR, 60° conical diamond, 3mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> </ul>
<p>Stylus set</p>	DT43800		2µmR	<p>Nosepiece: 010 2702, 010 2703, 010 2709, 010 2710, 010 2722</p> <p>Stylus: DT43812, DT43814, DT43815, DT43822</p>

\* Indicates stylus/nose piece set (DT43800).  
Measuring force is value when E-DT-S03A/E-DT-SE19A is mounted.

# Replaceable Profile Styluses

Applicable Models

- S130A      ■ S1400D, S1400D-3DF
- S480A      ■ S1800D, S1800D-3DF
- S2800E, S2800E-3DF

Measuring Application	Model	Outer Appearance	Specifications	Remarks
 <p>General purpose</p>	010 2501		5μmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Fine wires, Knife edges</p>	010 2502		5μmR, 90° knife edge-shaped diamond, 5mN	
 <p>Medium fine holes</p>	010 2509		5μmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Extra fine holes/ gear flank</p>	010 2511		5μmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Fine holes/ thin grooves</p>	010 2512*		5μmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Hole bottom/ conical surfaces</p>	010 2513		5μmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Corners/ tooth surfaces</p>	010 2514*		5μmR, 60° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> </ul>
 <p>Deep holes, round grooves</p>	010 2515*		5μmR, 90° conical diamond, 5mN	
 <p>Gear tooth profiles, thread flank</p>	010 2518		5μmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>• Magnification: ×20,000 or less</li> </ul>
 <p>Fine long holes</p>	010 2521		5μmR, 90° conical diamond, 5mN	<ul style="list-style-type: none"> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> </ul>
 <p>Low magnification, long holes</p>	010 2522*		5μmR, 90° conical diamond, 5mN	<ul style="list-style-type: none"> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×20,000 or less</li> </ul>
 <p>Low magnification, corners</p>	010 2524		5μmR, 60° conical diamond, 5mN	<ul style="list-style-type: none"> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×20,000 or less</li> </ul>
 <p>Deep groove corners</p>	010 2527		5μmR, 60° conical diamond, 8mN	<ul style="list-style-type: none"> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> <li>• Large waveform distortion</li> </ul>
 <p>Stylus set</p>	010 2640		5μmR	<p>Nosepiece: 010 2702, 010 2703, 010 2709, 010 2710, 010 2722</p> <p>Stylus: 010 2512, 010 2514, 010 2515, 010 2522</p>


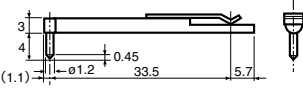

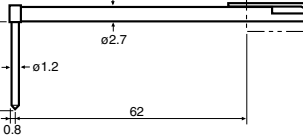

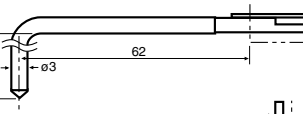

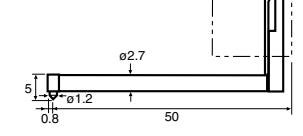

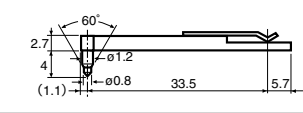

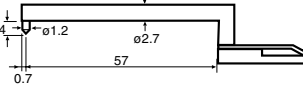
\* Indicates stylus/nose piece set (010 2640).

Measuring force is value when E-DT-S01A/E-DT-SE18A is mounted.

# SURFCOM·CONTOURECORD Options >>>

## Replaceable Profile Styluses


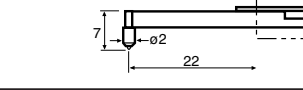

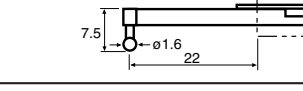

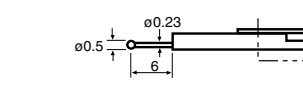

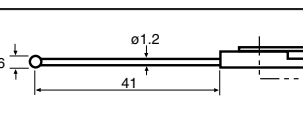

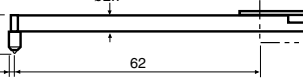
Applicable Models ■ S130A ■ S1400D, S1400D-3DF  
 ■ S480A ■ S1800D, S1800D-3DF  
 ■ S2800E, S2800E-3DF

Measuring Application	Model	Outer Appearance	Specifications	Remarks
Soft material 	010 2508		10μmR, 90° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> <li>• Specifications are for when E-DT-S02A is mounted</li> </ul>
Deep hole grooves· bottom surface of O ring grooves 	010 2525		10μmR, 90° conical diamond, 8mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×25,000 or less</li> <li>• Large waveform distortion</li> </ul>
Extra deep grooves 	010 2526		10μmR, 90° conical diamond, 8mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> <li>• Large waveform distortion</li> </ul>
Bottom surface of holes 	010 2541		10μmR, 90° conical diamond, 8mN	<ul style="list-style-type: none"> <li>• Magnification: ×20,000 or less</li> <li>• Large waveform distortion</li> <li>• Dedicated connecting rod used</li> </ul>
High magnification measurement 	010 2506		1μmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Horizontal tracing possible</li> <li>• Specifications are for when E-DT-S04A is mounted</li> </ul>
High magnification contour profiles 	010 2528		1μmR, 60° conical diamond, 8mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> </ul>

\* Measuring force is value when E-DT-S01A/E-DT-SE18A is mounted.

## Replaceable Profile Styluses

Applicable Models ■ S130A ■ S1400D, S1400D-3DF  
 ■ S480A ■ S1800D, S1800D-3DF  
 ■ S2800E, S2800E-3DF

Measuring Application	Model	Outer Appearance	Specifications	Remarks
Steps 	010 2504		250μmR, 60° conical sapphire, 5mN	<ul style="list-style-type: none"> <li>• All orientations</li> </ul>
Waviness 	010 2505**		800μmR, ruby, 4mN	<ul style="list-style-type: none"> <li>• All orientations</li> </ul>
Extra fine hole profiles 	010 2510		250μmR, tool steel, 4mN	<ul style="list-style-type: none"> <li>• All orientations</li> <li>• Magnification: ×5,000 or less</li> </ul>
Fine long hole waviness 	010 2520		800μmR, ruby, 5mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×10,000 or less</li> </ul>
Large steps 	010 2523		250μmR, sapphire, 5mN	<ul style="list-style-type: none"> <li>• Downward measurements</li> <li>• Sensitivity: 1/2</li> <li>• Magnification: ×25,000 or less</li> </ul>

\*\* Items not denoted with two asterisks are manufactured after receipt of order.  
 Measuring force is value when E-DT-S01A/E-DT-SE18A is mounted.

# Pickups


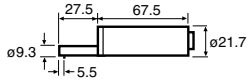

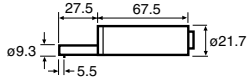

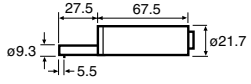

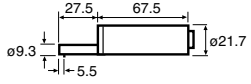
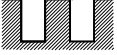
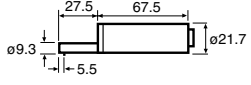
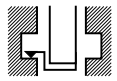
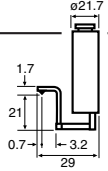

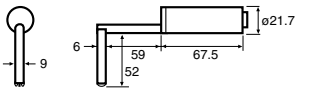

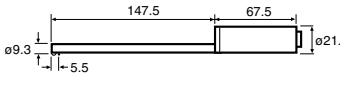

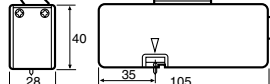
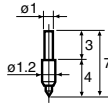
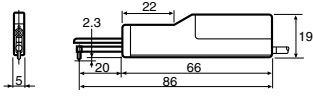
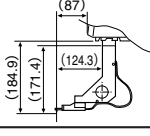
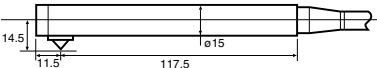
Applicable Models

■ S480A

■ S1400D, S1400D-3DF

■ S1800D, S1800D-3DF

■ S2800E, S2800E-3DF

Measuring Application	Model	Outer Appearance	Specifications	Remarks
<b>General purpose</b> 	E-DT-S01A		5µmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>All orientations</li> <li>Horizontal tracing possible</li> <li>Provided with 0102501 dedicated stylus</li> </ul>
<b>Soft materials</b> 	E-DT-S02A		10µmR, 90° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>All orientations</li> <li>Horizontal tracing possible</li> <li>Provided with 0102508 dedicated stylus</li> </ul>
<b>Low measuring force</b> 	E-DT-S03A		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>All orientations</li> <li>Horizontal tracing possible</li> <li>Standard specifications</li> <li>Other specifications are same as for DT43081 dedicated stylus</li> </ul>
<b>High magnification</b> 	E-DT-S04A		1µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>All orientations</li> <li>Horizontal tracing possible</li> <li>Provided with 0102506 dedicated stylus</li> </ul>
<b>Non-continuous measurement</b> 	E-DT-S05A		5µmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>All orientations</li> <li>Horizontal tracing possible</li> <li>Front travel: 110 – 120µm</li> <li>Other specifications are same as for E-DT-S01A</li> </ul>
<b>Grooves in holes</b> 	E-DT-S06A		5µmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>Front travel: 200µm</li> <li>Only for skidless measurement</li> <li>Max. magnification: ×10,000</li> <li>Dedicated connecting rod required (010 2746)</li> <li>Provided with 0102542 dedicated stylus</li> </ul>
<b>Ultra deep grooves</b> 	E-DT-S07A		5µmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>Front travel: 200µm</li> <li>Stylus cannot be replaced</li> <li>Max. magnification: ×10,000</li> <li>Sensitivity: 1/2</li> </ul>
<b>Ultra long holes</b> 	E-DT-S08A		5µmR, 90° conical diamond, 4mN	<ul style="list-style-type: none"> <li>Front travel: 200µm</li> <li>Stylus cannot be replaced</li> <li>Max. magnification: ×10,000</li> <li>Sensitivity: 1/5</li> </ul>
<b>High magnification</b> 	E-DT-SH01A			<ul style="list-style-type: none"> <li>Max. magnification: ×500,000</li> <li>Measuring force: 0.2mN</li> <li>Provided with 016 2854 stylus</li> </ul>
<b>Stylus for E-DT-SH01A</b>	016 2854		1µmR, 90° conical diamond	
	010 2567		1µmR, 60° conical diamond	
	010 2210		10µmR, 60° conical diamond	
	010 2211		5µmR, 60° conical diamond	
	010 2212		0.5µmR, 60° conical diamond	
	010 2213		90° 2.5µm width knife edge, diamond	
<b>Thin pickup</b>	DT42001		5µmR, 90° conical diamond, 10mN	<ul style="list-style-type: none"> <li>Magnification: ×5,000 or less</li> <li>Horizontal tracing possible</li> <li>Provided with 0102501 dedicated stylus</li> </ul>
<b>Pickup holder for thin pickup</b>	E-DH-S60A			<ul style="list-style-type: none"> <li>Used for horizontal tracing of crankshaft pins, journals or other such parts</li> </ul>
<b>Non-contact measurement</b>	E-DT-SL12B		Measuring range: 300µm Spot diameter: 2µm Work distance: 4.5 mm	<ul style="list-style-type: none"> <li>Color confocal point type</li> <li>Light source: Halogen light bulb</li> <li>Life: 1000 H</li> </ul>

# Replaceable Styluses for S3000A

Applicable Models ■ S3000A, S3000A-3DF

Measuring Application	Model	Outer Appearance	Specifications	Remarks
General purpose	DM48505		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 12mm</li> <li>Standard accessory</li> <li>For roughness &amp; contour measurement</li> </ul>
General purpose highly rigid stylus	DM48507		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 12mm</li> <li>For roughness &amp; contour measurement</li> </ul>
Highly rigid stylus for contours	DM48508		500µmR, ruby ball, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 24mm</li> <li>Standard accessory</li> <li>For contour measurement</li> </ul>
Highly rigid stylus for contours	DM48509		500µmR, ruby ball, 3.2mN	<ul style="list-style-type: none"> <li>Stroke: 30mm</li> <li>For contour measurement</li> </ul>
Up/down measuring stylus	DM48510		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 12mm</li> <li>For roughness &amp; contour measurement</li> </ul>
Right angle stylus	DM48511		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 12mm</li> <li>Offset: 13.5mm</li> <li>For roughness &amp; contour measurement</li> </ul>
Small hole stylus	DM48513		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 12mm</li> <li>Stylus height: 2mm</li> <li>For roughness &amp; fine contour measurement</li> </ul>
Extra small hole stylus	DM48514		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 12mm</li> <li>Stylus height: 1mm</li> <li>For roughness &amp; fine contour measurement</li> </ul>
Deep hole stylus	DM48515		2µmR, 60° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 12mm</li> <li>Stylus height: 25mm</li> <li>For roughness &amp; contour measurement</li> </ul>
General purpose stylus	DM48588		5µmR, 30° conical diamond, 0.7mN	<ul style="list-style-type: none"> <li>Stroke: 12mm</li> <li>For roughness &amp; contour measurement</li> </ul>

## S3000A Accessories

Measuring Application	Model	Outer Appearance	Specifications	Remarks
Dust cover	E-CV-S29A			<ul style="list-style-type: none"> <li>For DX measuring stand</li> </ul>
Dust cover	E-CV-S30A			<ul style="list-style-type: none"> <li>For STD (E-VS-R16A)</li> </ul>