

# **RENISHAW SFM-B3 Surface Finish Probe Module Instructions**

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SFM-B3 Surface Finish Probe Module Instructions



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## SFM-B3 Surface finish probe module

#### Enhanced access and inspection capability for integrated surface finish measurement

The SFP2 consists of a probe and a range of SFM modules that have been designed to suit the demands of specific parts and features encountered in a precision manufacturing environment. The probe and modules can be automatically interchanged with all other REVO® probe options, providing the flexibility to easily select the optimum tool to inspect a wide range of features. Each SFM module is its own mini-measuring device, incorporating Renishaw's proprietary scale and read head system, to transduce the motion of the stylus tip.



#### **Features**

The B-series of modules feature a small skid which allows the stylus to be placed close to the edge of surfaces of interest. The modules can provide access into awkward to reach features.

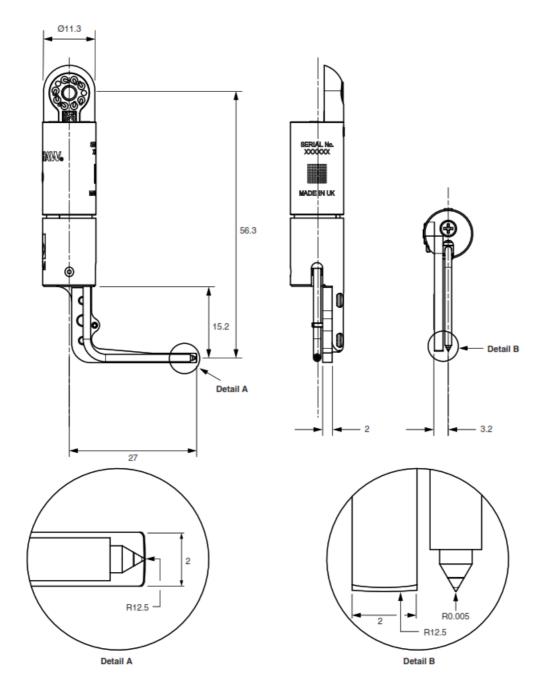
## **Typical applications**

Undercuts and grooves.

## **Specification**

Diamond tip radius (pm)	5
Surface finish measurement range (pm)	6.3 to 0.10 Ra
Typical surface finish accuracy (of nominal Ra) *	±(10% + 20 nm)
Skid / stylus arrangement	Side-by-side
Skid material	DLC coated stainless steel
Nominal stylus tip protrusion beyond skid (mm)	0.5
Skid length / radius (mm)	2 / 12.5
Skid width / radius (mm)	2 / 12.5
Skid contact force (N)	0.2
Stylus contact force (N)	0.006
SFM / SFH knuckle adjustment range	±90°
Weight (g)	13
Resolution (nm)	1
Measurement speed (mm/s)	Up to 1
Stylus holder compatibility	SFH-1, SFH-2
Lateral scanning capability	No

<sup>\*</sup> Accuracy values are dependent upon a number of system variables. These include the machine size and configuration, scan orientation, condition of stylus tip, part fixturing system, and environmental noise. **All dimensions in mm.** 



### www.renishaw.com/SFP2

#renishaw





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### **Documents / Resources**



RENISHAW SFM-B3 Surface Finish Probe Module [pdf] Instructions

SFM-B3, Surface Finish Probe Module, Finish Probe Module, Probe Module, SFM-B3, Module

# References

• **SFP2** surface finish probe for the REVO® system

Manuals+,