

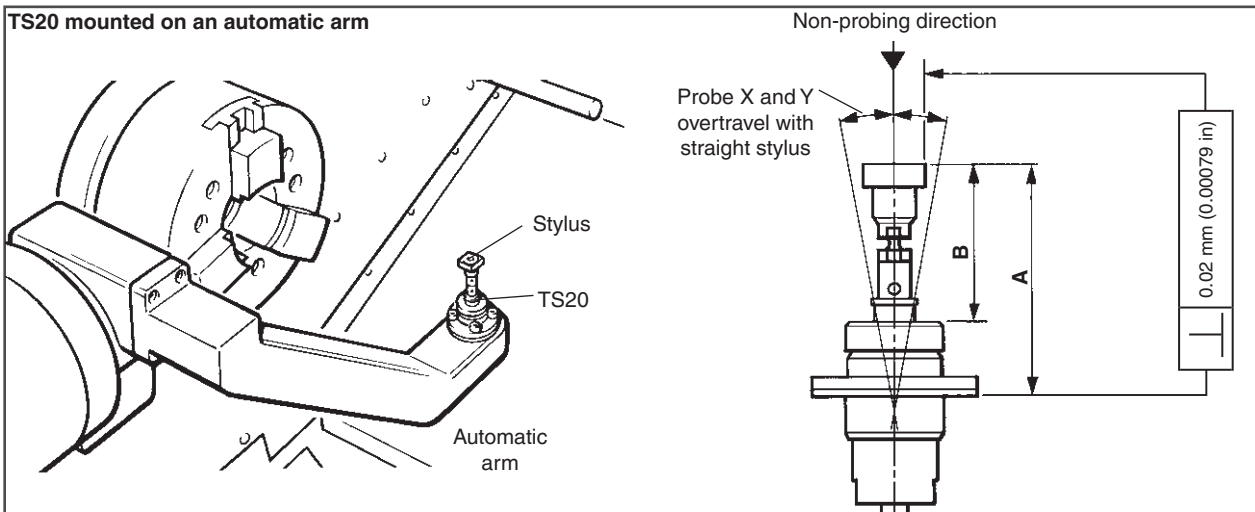
TS20 two axis tool setting probe for lathes



Specification

TS20 probe with straight stylus

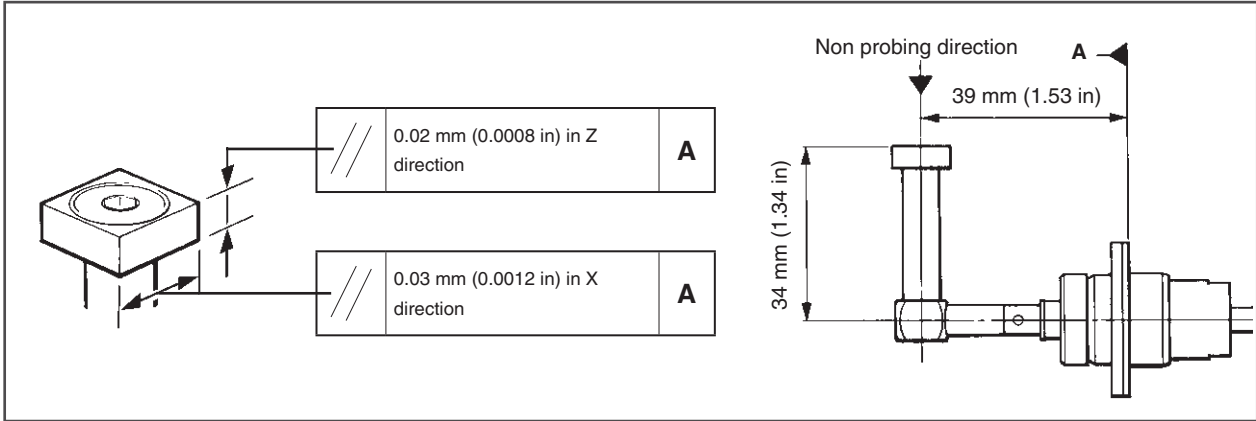
Sense directions	Normally $\pm X$ and $\pm Z$ axes of a lathe
Uni-directional repeatability. Maximum mean 2 sigma (2σ) value	2 μm (0.00008 in) Valid for test velocity of 480 mm/min (1.57 ft/min) at stylus tip
Temperature limits: Operating Storage	5° to 60° C (41° to 140° F) -13° to 60° C (9° to 140° F)



Tooling size	Dimension A	Dimension B	Stylus overtravel with straight styli	Uni-directional repeatability 2σ At a probing speed of 480 mm/min (1.57 ft/min)	Trigger force dependent on sense direction
25 mm (0.98 in)	41 mm (1.61 in)	28.25 mm (1.11 in)	± 6 mm (± 0.24 in)	2.0 μm (0.00008 in)	0.60 - 1.6 N 60 - 160 gf (2.12 - 5.64 ozf)
32 mm (1.26 in)	50 mm (1.96 in)	37.25 mm (1.46 in)	± 7.5 mm (± 0.30 in)	2.5 μm (0.0001 in)	0.47 - 1.26 N 47 - 126 gf (1.66 - 4.44 ozf)
40 mm (1.57 in)	58 mm (2.28 in)	58 mm (2.28 in)	± 9 mm (± 0.35 in)	3.0 μm (0.00012 in)	0.39 - 1.6 N 39 - 106 gf (1.38 - 3.74 ozf)

Specification

TS20 probe with cranked stylus for applications where the straight stylus is not suitable

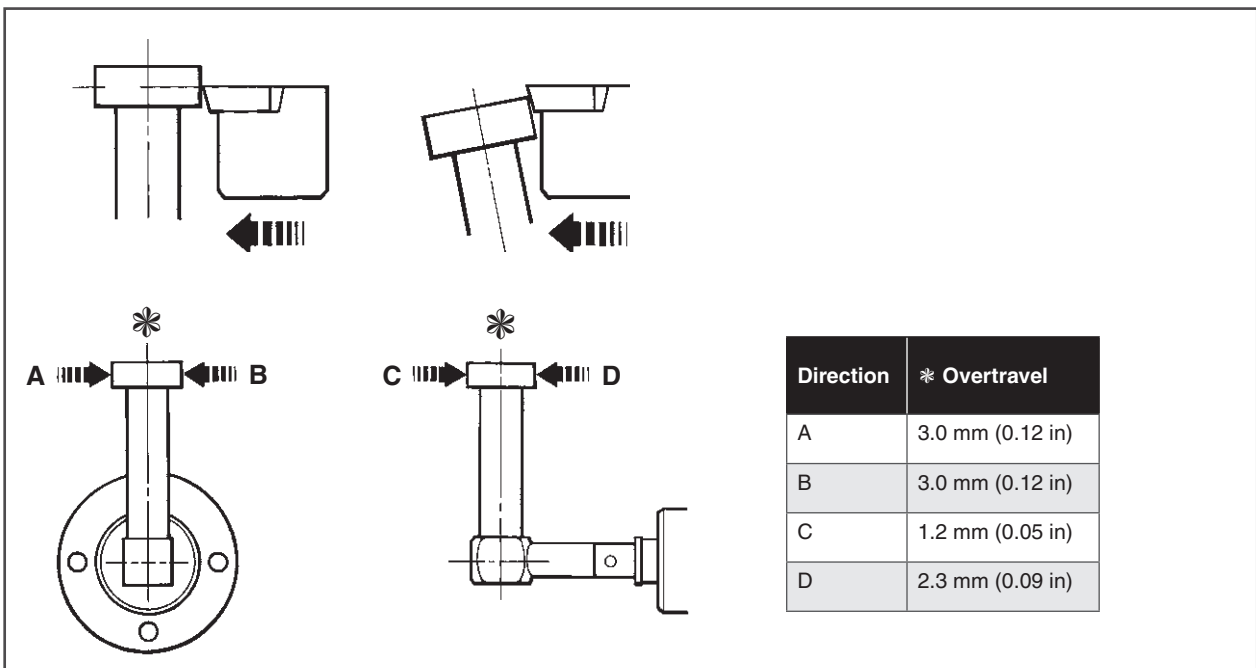


Uni-directional repeatability 2σ At a probing speed of 480 mm/min (1.57 ft/min)	Trigger force (dependent on sense direction)
2 μ m (0.00008 in)	0.6 - 1.6 N, 60 - 160 gf, (2.12 - 5.64 ozf)

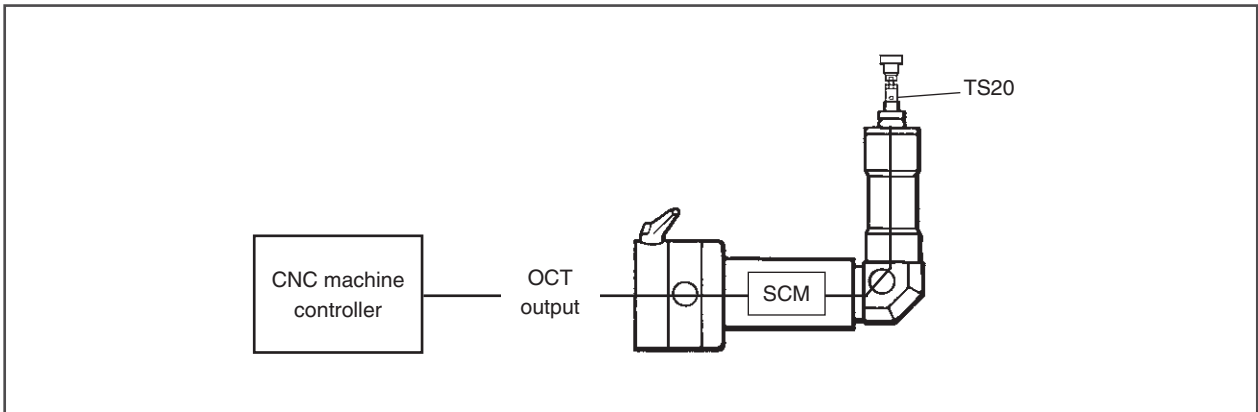
NOTE: The characteristics of cranked styli do not allow them to have as good a repeatability performance as straight styli.

Overtravel

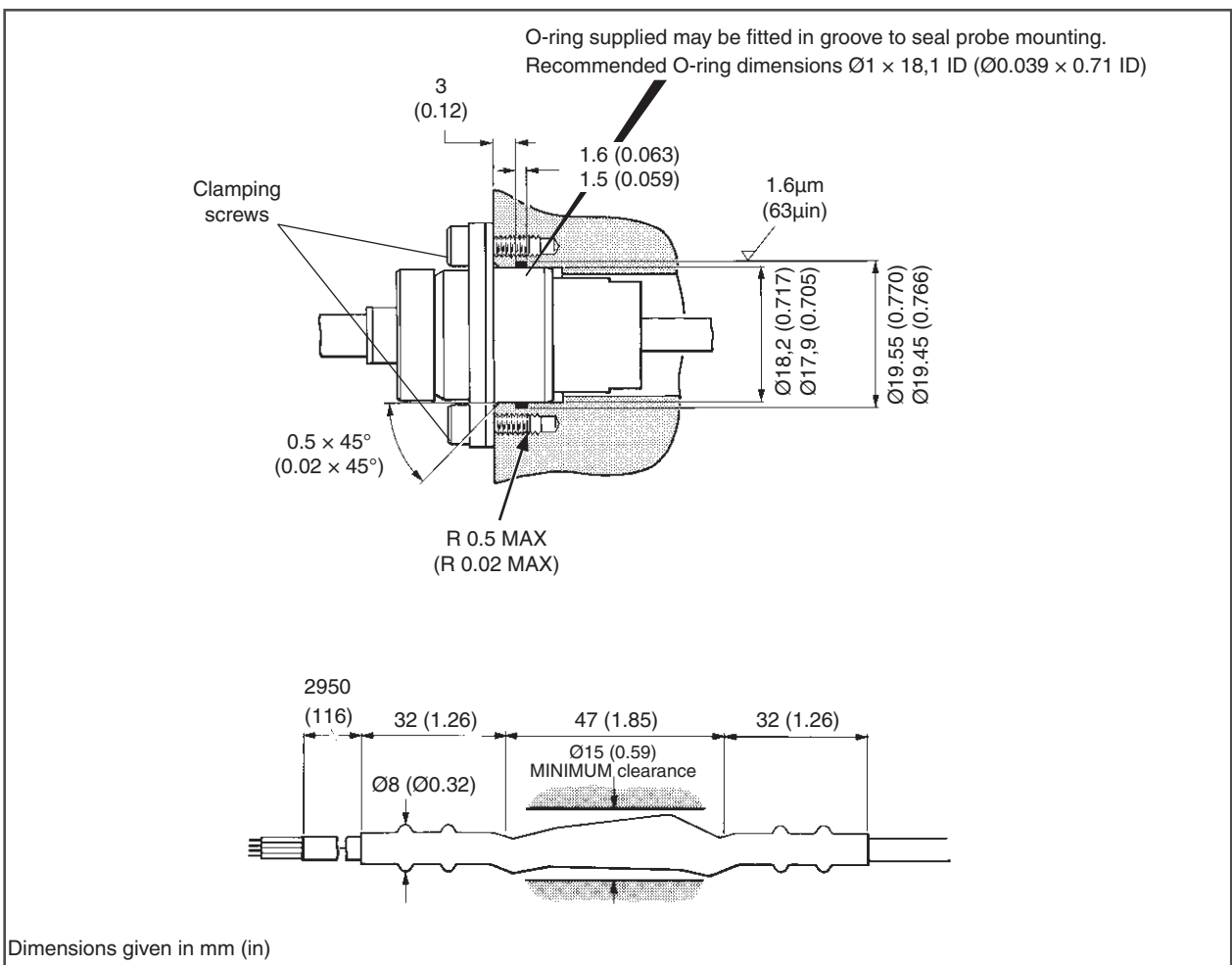
Do not exceed the quoted overtravel distance for each direction, otherwise the tool tip may slip off the stylus edge, and could cause damage to the probe.



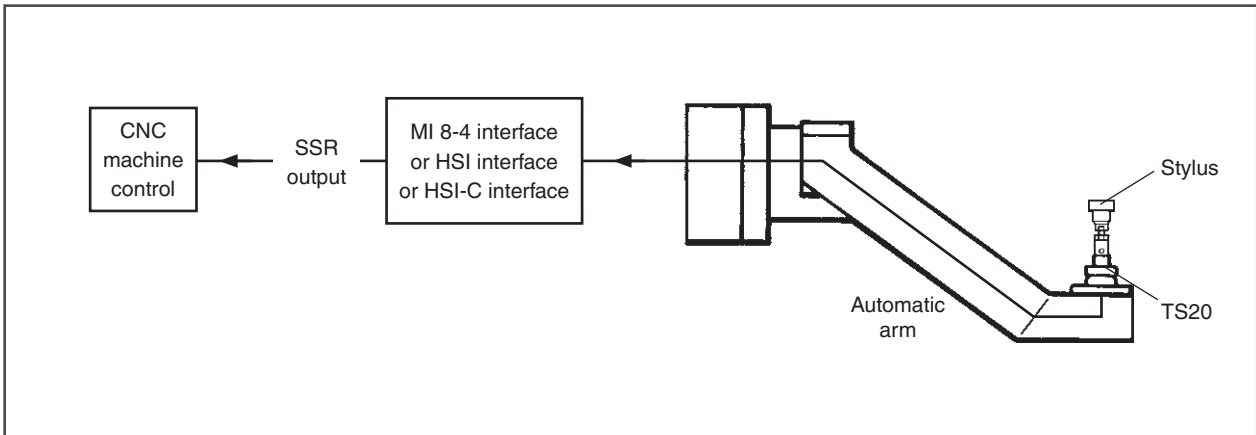
Probe - signal processing options



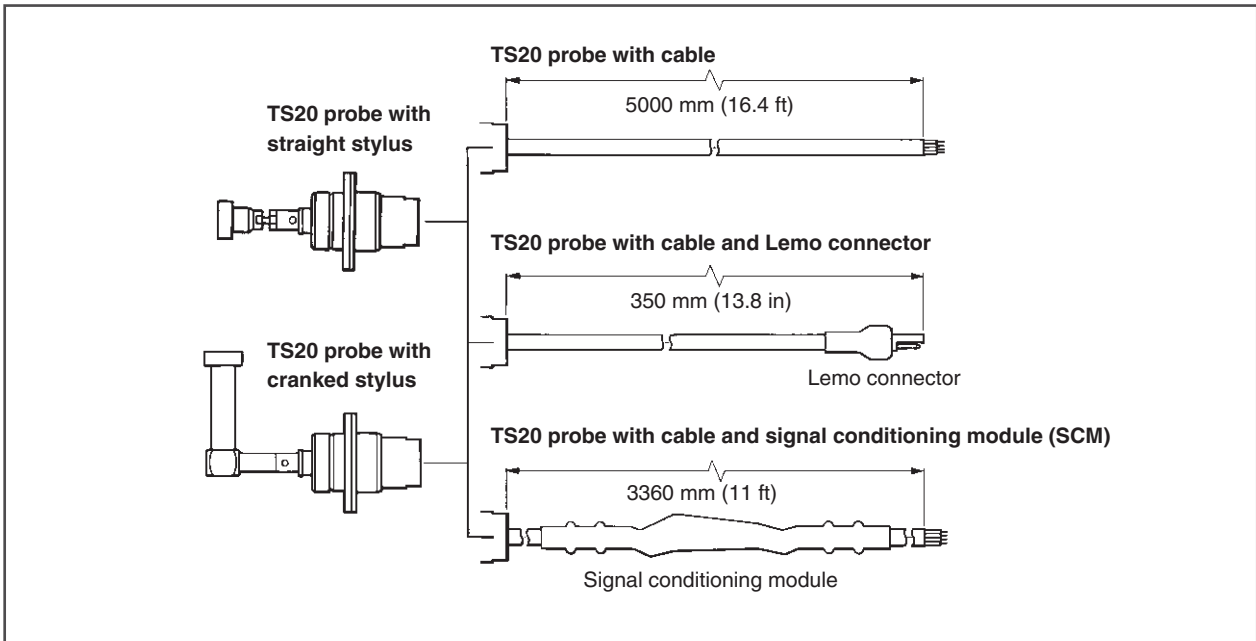
TS20 probe with signal conditioning module



TS20 mounted on an automatic arm with MI 8-4, HSI, or HSI-C interface



Probe - cable options



Spare parts and accessories

A full range of spare parts and accessories is available. Contact Renishaw for a full list.

www.renishaw.com/ts20

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