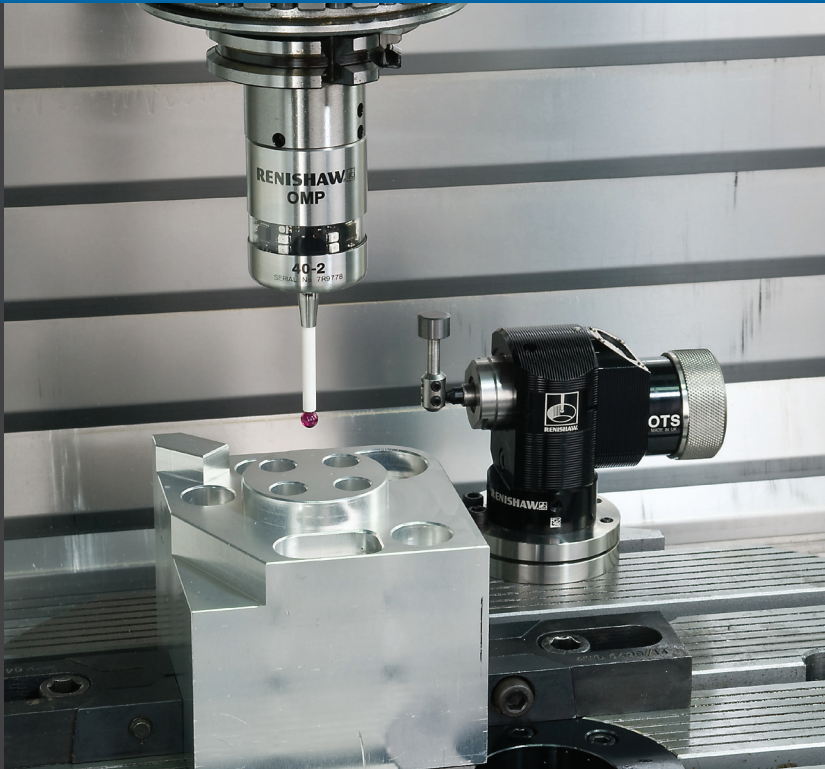


# OTS

## Touch-Trigger Tool Setter



The cableless **Renishaw OTS** is a compact 3D touch-trigger tool setter with optical signal transmission used for broken tool detection and rapid measurement of tool length and diameter on a wide range of tools.

### Benefits

- Rapid measurement of tool length and diameter
- Cable-free for unrestricted machine movement
- Direction-adjustable infrared optical module
- Significant time savings with reduced machine downtime
- Elimination of manual setting errors
- In-cycle tool breakage detection
- Reduced scrap

### Features

- Proven kinematic design offering 1.00  $\mu\text{m}$  2 $\sigma$  repeatability
- Modulated transmission for exceptional resistance to light interference
- Direction adjustable infra-red optical module
- Ultra-compact probe design (40mm  $\text{\O}$  x 50mm long)
- 360° transmission envelope for maximum configurability
- Sealed to IPX8 for use in the harshest machining environments



OTS

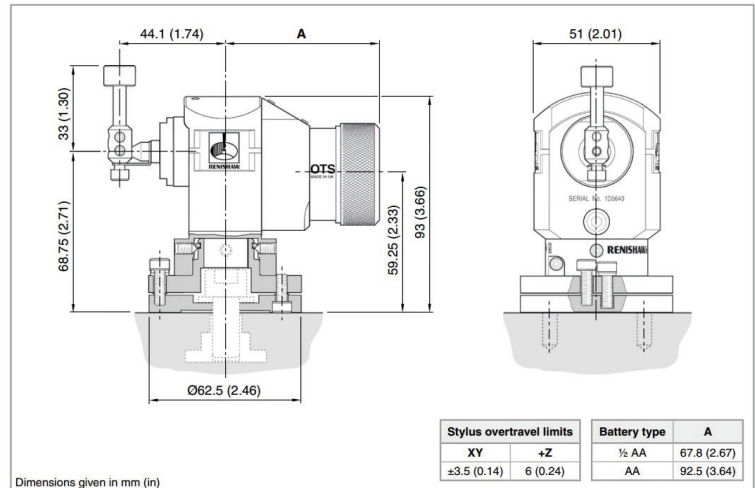


OTS (AA)

## Specifications

### Specifications

<b>Primary application</b>	Tool setter for machining centers.
<b>Sense directions</b>	5 way $\pm X \pm Y + Z$
<b>Overtravel</b>	<b>XY</b> $\pm 3.5\text{mm}$ ° <b>Z</b> 6 mm (0.24 in)
<b>Stylus trigger force</b>	1.3 N to 2.4 N / 130 gf to 240 gf (4.6 ozf to 8.5 ozf) depending on sense direction
<b>Repeatability</b>	1.0 $\mu\text{m}$ (0.00004 in) Maximum mean 2 sigma ( $2\sigma$ ) value
<b>Sealing</b>	IPX8 (BS 5490, IEC 529) 1 atmosphere



### Battery Life (Lithium Thionyl Chloride)

Battery type x 2	Standby life	5% usage (72 minutes/day)		Continuous use	
		Standard power mode	Low power mode	Standard power mode	Low power mode
½ AA LTC (Standard)	320 days	140 days	170 days	300 days	400 days
AA Alkaline (Standard)	530 days	210 days	250 days	400 days	550 days
AA LTC (Optional)	730 days	300 days	350 days	600 days	800 days

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