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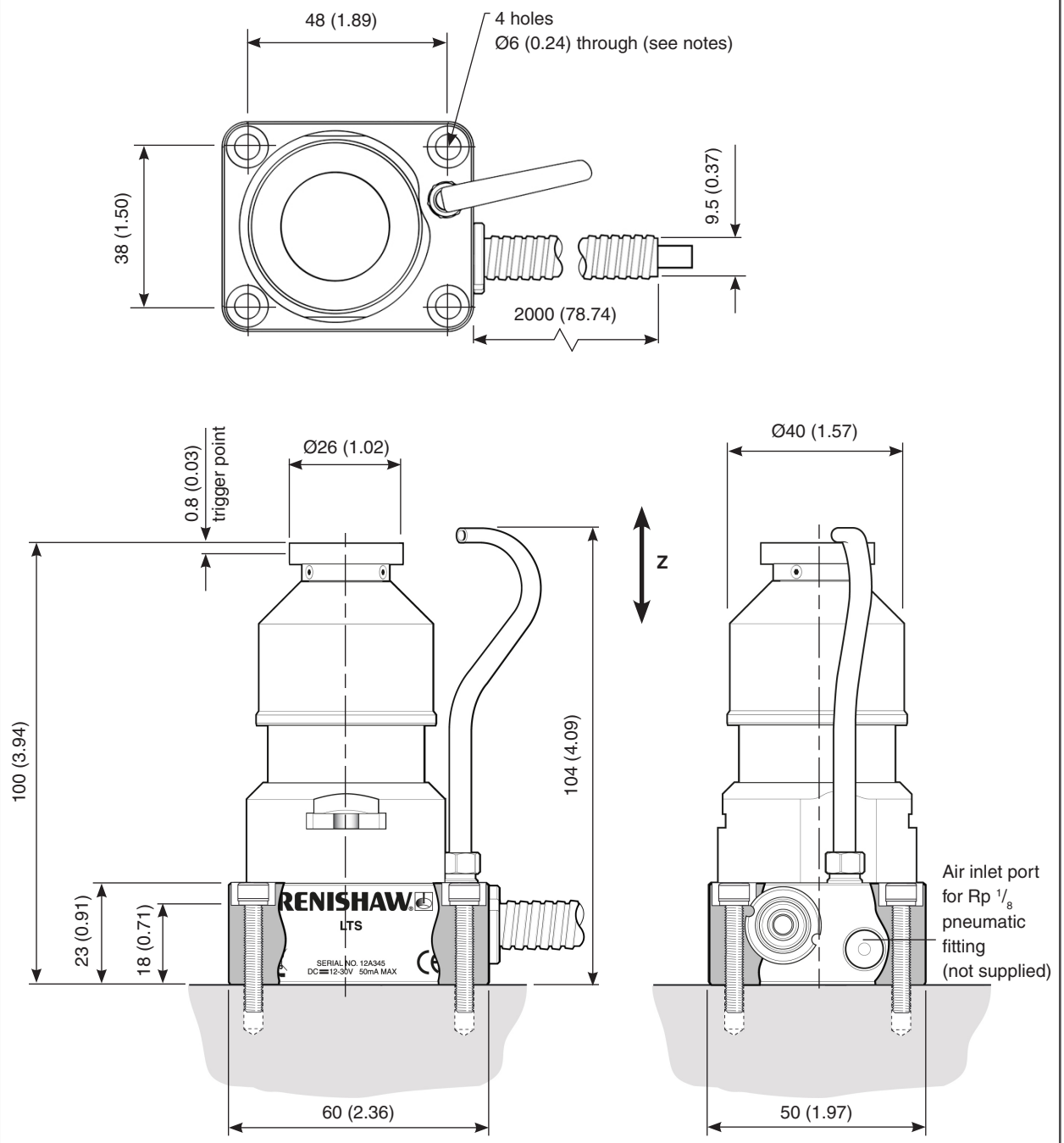
LTS (length tool setter)



Specification

Principal application	Tool length setting, broken tool detection and thermal compensation on all sizes of CNC machines.	
Tool compatibility	Static cutting tools down to Ø0.1 mm (Ø0.004 in).	
Dimensions	Height Width Depth Contact pad	100 mm (3.93 in) nominal 60 mm (2.36 in) 50 mm (1.96 in) Ø26 mm (1.02 in)
Weight	Including cable and conduit	726 g (25.61 oz) 835 g (29.45 oz) – raised air blast
Transmission type	Hard-wired	
Interface	Integrated interface 12 to 30 Vdc capable of supplying 50 mA minimum.	
Cable	Specification	Ø5 mm (0.2 in), 7-core screened cable, each core 7 × 0.1 mm
	Length	8 m (26.24 ft)
	Dynamic bend radius	35 mm (1.38 in) minimum
Sense directions	+Z axis	
Repeatability	0.75 µm (30 µin) 2σ	
Trigger force	3 N / 306 gf (10.79 ozf) Z direction	
Trigger position (from rest)	Z axis	0.8 mm (0.03 in) nominal
Overtravel switch position (from rest)	Z axis	7.5 mm (0.29 in) nominal
Hard stop position (from rest)	Z axis	12 mm (0.47 in) nominal
Mounting	M5 × 25 mm cap head screws (× 4) – (not supplied)	
Environment	IP rating	IPX6, IPX8, BS EN 60529:1992+A2:2013
	Storage temperature	–25 °C to +70 °C (–13 °F to +158 °F)
	Operating temperature	+5 °C to +55 °C (+41 °F to +131 °F)
	Indoor/outdoor use	Indoor use
	Altitude	≤ 3000 m (9843 ft)
	Relative humidity	5% to 95%
	Wet location	Yes, water/oil/coolant
	Pollution degree	Level 2

LTS dimensions



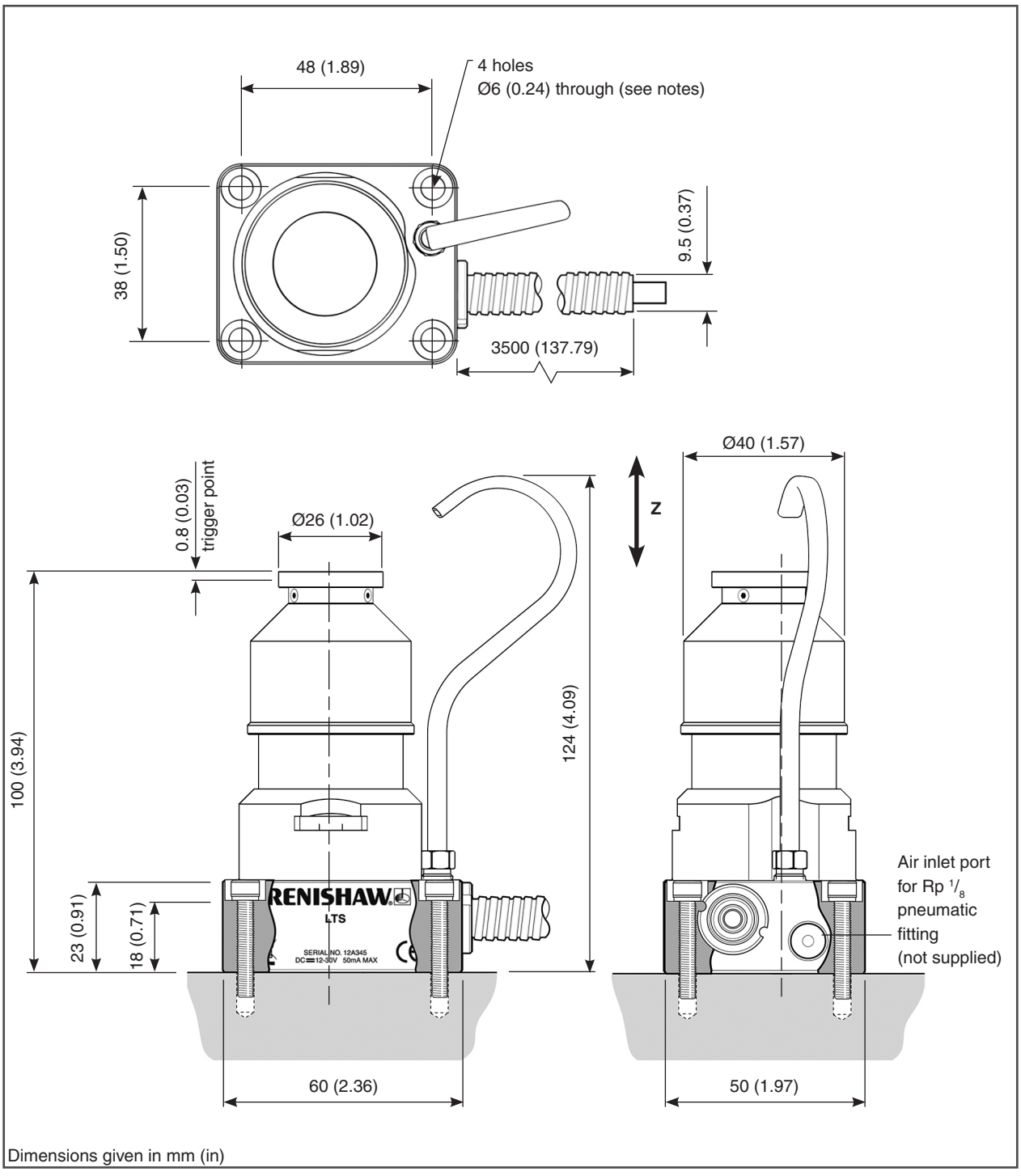
Dimensions given in mm (in)

NOTES:

Mounting holes suitable for M5 × 25 mm cap head screws (× 4) – not supplied.

An optional adaptor for T-slot mounting is available from Renishaw.

LTS dimensions (raised air blast)



Dimensions given in mm (in)

NOTES:

Mounting holes suitable for M5 × 25 mm cap head screws (× 4) – not supplied.

An optional adaptor for T-slot mounting is available from Renishaw.

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Spare parts and accessories

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

www.renishaw.com/contact

#renishaw

+44 (0) 1453 524524 **uk@renishaw.com**

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Robust
Reliable
Repeatable



LTS (Length Tool Setter)

Introducing LTS (Length Tool Setter)

Fast and accurate on-machine tool setting

LTS eliminates the need for time-consuming, error-prone manual tool length setting, which can often lead to scrap, rework, reduced productivity, and lower profit levels.

LTS is a single-axis tool setter that allows users to set tool length, check for breakage, and compensate for thermal growth on a CNC machining centre.

Suitable for both vertical and horizontal mounting in many types of applications.

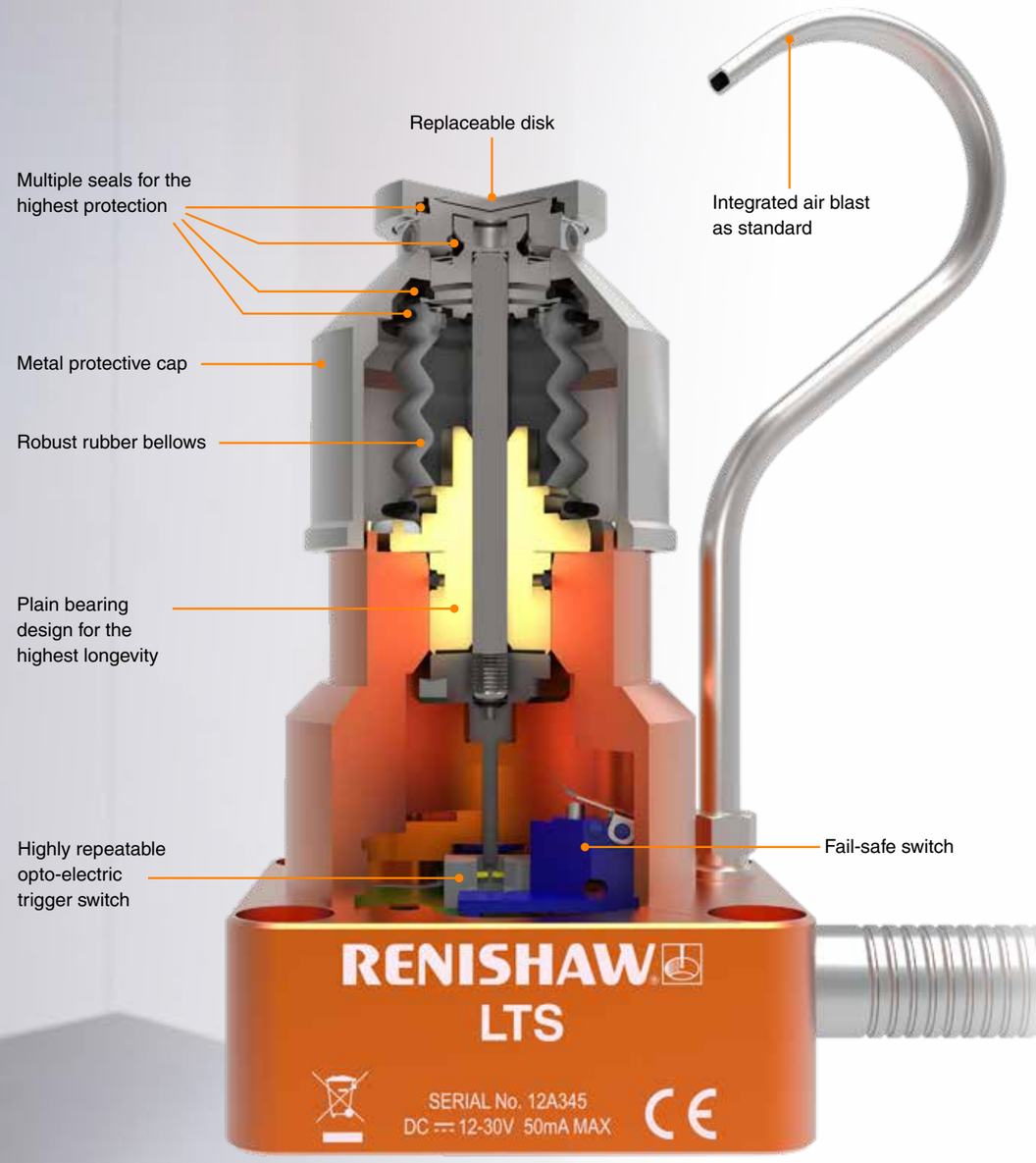
How does LTS work?

LTS is a hard-wired product featuring a fully integrated interface for direct connection to the machine controller. It can be fitted to the machine table, and after installation of the appropriate software, doesn't need any additional set-up.

LTS is designed to operate in the harshest of machining environments making it resistant to swarf and coolant ingress and false triggers caused by shocks or vibration. An integrated air blast provides effective swarf removal when necessary.

Engineered for performance

Automated on-machine tool length setting with LTS is up to ten times faster than manual methods, resulting in immediate and significant cost savings. It is suitable for use on all sizes of CNC machining centres and helps guarantee right-first-time parts, reducing waste and increasing profits.



The Productive Process Pyramid™

Tackle process variation at source, and reap the rewards

The higher the degree of human involvement in the manufacturing process, the higher the risk of error. Automated tool setting using the Renishaw LTS tool setter can help eliminate the risk and can facilitate the following measures for enhanced management of your production, leading to an increase in your profits.

For further details regarding the benefits of all levels of process control within the Productive Process Pyramid™, visit **www.renishaw.com/processcontrol.**

Post-process monitoring

Renishaw offers a range of other systems which enable users to check their processes and finished parts against their specifications, as well as log process routes and outcomes.

For more information, visit **www.renishaw.com/postprocessmonitoring**



In-process control

Automated tool condition monitoring.

- Automated mid-cycle tool breakage detection.
- Mid-cycle tool length measurement for thermal growth compensation.
- Improved process capability and traceability.
- Ideal for lights-out environment with a robust design and integrated air-blast.



Process setting

Automated on-machine tool length measurement eliminates manual setting operations.

- Eliminate prone-to-error manual tool length measurement.
- Increased safety with automatic operation with the machine tool doors in closed condition.
- Fast, reliable, and repeatable automatic tool length measurement.



Process foundation

Renishaw offers a range of other systems which enable users to gain a greater understanding of their machines' capabilities and keep control of their performance.

For more information, visit **www.renishaw.com/processfoundation**



Built to last

Thousands of LTS customers are already benefiting from the robustness and durability of the product in the harsh machine tool environment.

Here at Renishaw, we take things to the next level. We want to ensure our products are built to last, and we have developed a test for the durability of LTS.

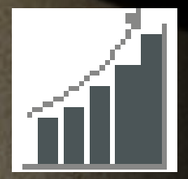
For several months, an LTS was mounted horizontally on a machine and blasted with very fine swarf and coolant 24/7.

At the end of the test, an investigation showed the repeatability of the tested unit was not compromised, and no swarf or coolant ingress was detected.

This test proves the durability of the LTS in extreme environments. You can be confident of its performance no matter what you throw at it.

Probing pays with Renishaw

Optimise your cutting process



Ensure parts are machined “right first time”.

Reduce scrap and rework



Set tools up to ten times faster than when using manual methods.

Save time and money



Produce more parts reliably and accurately.

The Renishaw advantage



At Renishaw, we enjoy an excellent reputation for offering strong support to our customers through a network of over 70 service and support offices worldwide.

Technical assistance



We supply technical assistance to all our global customers.

Support and upgrades



We provide a variety of support agreements bespoke to your individual needs.

Training



We offer standard and bespoke training courses to meet your requirements.

Spares and accessories



Buy spares and accessories online or obtain quotes for Renishaw parts 24/7.

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Applying innovation since 1973

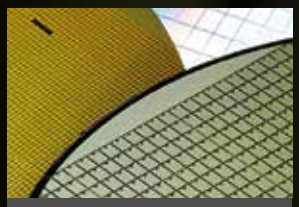
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Medical and healthcare


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