



Additively manufactured styli

Main benefits of using additively manufactured (AM) styli

- Custom products can be printed rapidly with no need for tooling
- The lightweight and robust titanium-structured styli enable inspection of hard to reach features
- Specially designed lattice structures and tubular shapes reduce total mass whilst maintaining structural integrity
- Female threads (M2/M3/M4/M5) can be included to allow the fitment of any additional styli from Renishaw's extensive range of standard styli

Why choose Renishaw AM styli?

- Industry leaders in AM styli technology, being the only company offering custom AM styli
- In-house development and manufacturing allows for fast lead times
- Our design team focuses on accuracy, inspection, delivery and cost when designing and developing high quality custom AM styli



Traditional manufacturing process: a 9-joint configuration



AM technology: a seamless lattice structure



Greater design freedom, greater inspection access

Renishaw offers additive manufacturing (AM) to produce complex, bespoke styli solutions that traditional manufacturing techniques cannot produce.

Design freedom

AM styli allow access to features that cannot be reached with traditional styli, so parts will no longer have to be designed for metrology access.

Specially-designed lattice structures and tubular shapes reduce total mass whilst maintaining structural integrity, thereby enabling maximum size-to-weight ratios.

High accuracy

Laser powder bed fusion can create strong, lightweight structures that enable repeatable and accurate metrology results.

Using AM technology, styli are manufactured using the minimum number of parts – and therefore joints – required, significantly improving robustness.

Each stylus is designed to ensure optimum weight, balance and stiffness.

Custom design

All AM styli are designed and produced in house by Renishaw, ensuring short lead times and high standards of quality.

Our expertise allows us to develop a product that satisfies customer demand for accuracy, piece part inspection, delivery and cost. All of these aspects are considered within the design of a custom stylus.

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Custom stylus for 5-axis CMM inspection



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 #renishaw

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