

# RENISHAW

## RenAM 500D Ultra

### RenAM 500D: Dual lasers now available for Renishaw's RenAM 500 series

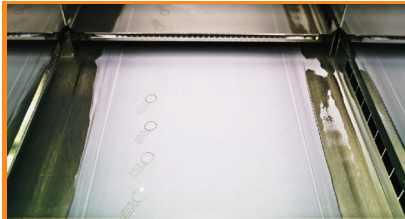
The RenAM 500D is the latest addition to Renishaw's lineup of laser powder bed fusion (LPBF) additive manufacturing systems. The dual laser option provides exceptional quality and cost-effectiveness at an accessible investment level.

It's the perfect choice when upgrading from legacy single laser systems.

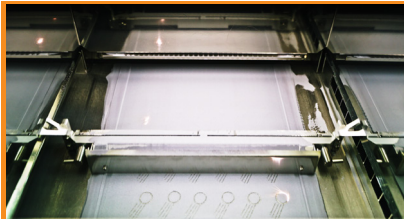


### Up to three times faster than single laser systems

The RenAM 500D can be configured with Renishaw's TEMPUS™ technology, which allows the lasers to fire while the recoater is moving. This can save up to nine seconds per build layer to achieve a build rate 200% faster than conventional single laser systems, depending on part geometry.



With single laser: 26 hours, 42 minutes



With RenAM 500D and TEMPUS technology: 10 hours, 45 minutes



Same exceptional part quality - but more than 2x faster

## Benefits of the RenAM 500D

**Quality** - intelligent gas flow and precision optics offer the same class-leading part quality as the rest of the RenAM 500 series, in the same compact footprint.

**Flexibility** - available with either an open-loop powder system suited to R&D applications as the 500D Flex, or automated powder and waste handling optimised for volume production as the 500D and 500D Ultra.

**Productivity** - Two lasers unlock double the processing speed of a single laser system (up to three times faster when utilising Renishaw's patented TEMPUS™ technology).



### Machine information

<b>Laser configuration</b>	2x 500 W ytterbium fibre lasers
<b>Beam focus diameter</b>	80 µm with dynamic focus
<b>Build volume (X × Y × Z)</b>	250 mm × 250 mm × 350 mm
<b>Machine size (length × width × height)</b>	1,236 mm x 2,165 mm x 2,160 mm (500 and Ultra) or 2,794 mm (Flex)

## Scale from lab to volume production with the RenAM 500 series





Renishaw offers a system for every stage of your additive manufacturing journey.

The RenAM 500 series of metal additive manufacturing (AM) systems delivers standout LPBF processing speeds, consistent high part quality, and process economics that break down barriers to the wider use of metal AM.

When performance really matters, choose Renishaw.

[www.renishaw.com/renam500d](http://www.renishaw.com/renam500d)

 #renishaw

 +44 (0) 1453 524524  [uk@renishaw.com](mailto:uk@renishaw.com)

© 2024 Renishaw plc. All rights reserved. This document may not be copied or reproduced in whole or in part, or transferred to any other media or language by any means, without the prior written permission of Renishaw.

RENISHAW® and the probe symbol are registered trade marks of Renishaw plc. Renishaw product names, designations and the mark 'apply innovation' are trade marks of Renishaw plc or its subsidiaries. Other brand, product or company names are trade marks of their respective owners.

WHILE CONSIDERABLE EFFORT WAS MADE TO VERIFY THE ACCURACY OF THIS DOCUMENT AT PUBLICATION, ALL WARRANTIES, CONDITIONS, REPRESENTATIONS AND LIABILITY, HOWSOEVER ARISING, ARE EXCLUDED TO THE EXTENT PERMITTED BY LAW. RENISHAW RESERVES THE RIGHT TO MAKE CHANGES TO THIS DOCUMENT AND TO THE EQUIPMENT, AND/OR SOFTWARE AND THE SPECIFICATION DESCRIBED HEREIN WITHOUT OBLIGATION TO PROVIDE NOTICE OF SUCH CHANGES.

Part no.: H-5800-6892-01-B

Renishaw plc. Registered in England and Wales. Company no: 1106260. Registered office: New Mills, Wotton-under-Edge, Glos, GL12 8JR, UK.

Issued: 11.2024