

Reduced Build Volume for AM systems

The **Reduced Build Volume (RBV)** is designed for users who wish to easily change between materials for the purpose of materials development and experimentation.

All Renishaw additive manufacturing (AM) systems feature open parameter editing with over 142 parameters for users to use for experimentation and process optimisation. Access to parameter editing is via Renishaw QuantAM software, where test arrays can be configured within minutes. RBV enables rapid real time testing of the parameters, speeding up material development iterations.

After the initial configuration of the RBV by a Renishaw engineer, it is quick and easy to install and remove by the user. It is completely self-contained and can be used with as little as 0.25 L (15.25 cu/in) of material. Once the RBV is removed the machine functions as a normal full size AM system.

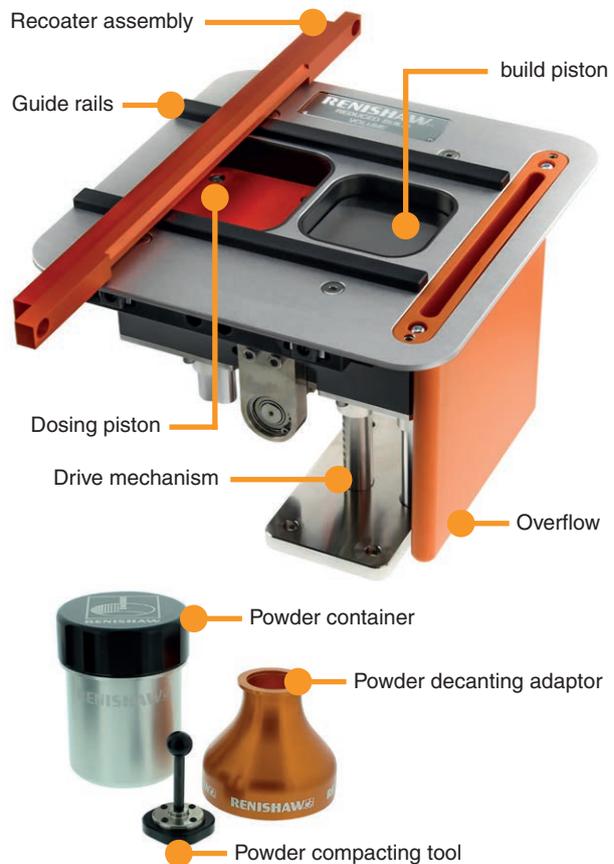
System description

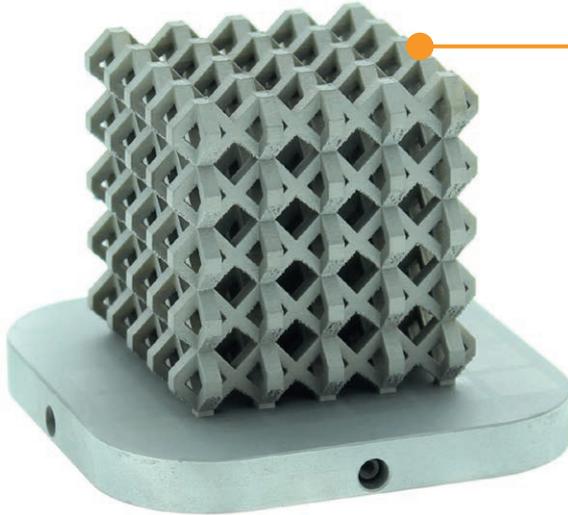
Featuring:

- Compatible with all Renishaw AM systems
- Rapid installation and removal, typically < 30 minutes
- Quick turnaround between materials
- Minimum material requirement 0.25 L (15.25 cu/in)
- Maximum material capacity 0.75 L (46 cu/in)
- Independent from machine powder handling system
- Self-contained powder handling
- Ideal for high value materials

System specification

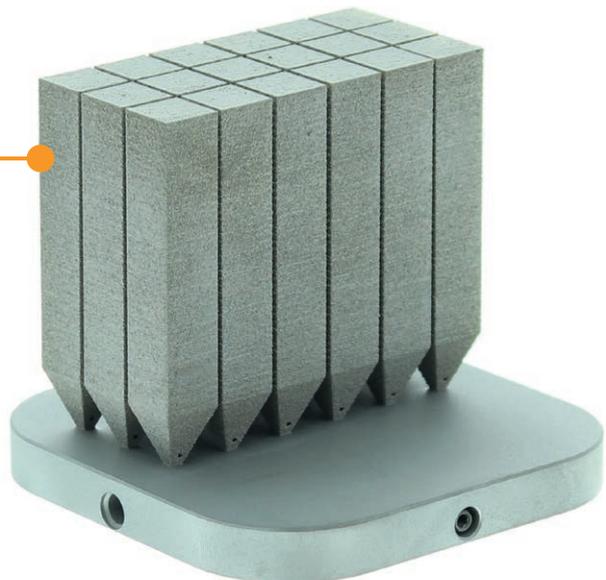
Maximum build dimensions (H × W × D)	55 mm × 78 mm × 78 mm (2.16 in × 3.07 in × 3.07 in)
Build volume dimensions (H × W × D)	64 mm × 80 mm × 80 mm (2.51 in × 3.14 in × 3.14 in)
Power supply	No additional electrical power is required
Material parameters available	Standard parameters are available for a number of materials. Open architecture editable parameters are supported through other Renishaw products.
Hardware weight	15 kg (33 lb)
Ancillaries	Dedicated powder bottle, powder bottle adaptor and powder compacting tool
Support	Maintenance packages Training programmes – tailored to suit your requirements Consumables – including metal powders and spare parts
Part number	A-6135-0500 – Reduced build volume in storage and transportation case





Coarse mesh built on a Renishaw AM250
with Reduced Build Volume using
Renishaw metal powder

- Stainless steel 316L
- Full build height of 55 mm
- Bead blast finish



Long test blocks built on Renishaw
AM250 with Reduced Build Volume using
Renishaw metal powder

- Nickel alloy 718
- Full build height of 55 mm
- Bead blast finish

For worldwide contact details, visit www.renishaw.com/contact

