



## Arcam EBM A2X

The Arcam EBM A2X machine is ideal for material studies because it operates in a vacuum which provides a clean and controlled environment and minimizes the risk of contamination. This machine uses electrons as energy carriers, provides deep energy penetration and low reflection in the powder.

For academia and research institutes it is delivered with development mode option. This makes it possible to control more machine and process parameter settings within the machine software, allowing for advanced process development.

The build chamber of the A2X is specifically designed to withstand extremely high process temperatures over 1,000° C, enabling new crack prone alloys to be produced.

### Technical Data

Max. build size	200 x 200 x 380 mm (W x D x H)
Max. beam power	3kW
Cathode type	Tungsten filament
Min. beam diameter	250 µm
Max. EB translation speed	8,000 m/s
Active cooling	No
Minimum chamber pressure	5 x 10 <sup>-4</sup> mbar
Typical build atmosphere	2 x 10 <sup>-3</sup> mbar (partial pressure of He)
He consumption, build process	1 liter/h
He consumption, ventilation	50-75 liters/build cycle
Power supply	3 x 400 V, 32 A, 7 Kw
Size approx.	1,850 x 900 x 2,200 mm (W x D x H)
Typical process temperature range	600-1,100°C
Weight	1,700 kg
CAD interface	Standard: STL
Materials available	Arcam EBM Ti6Al4V Grade 5, P-Mtrl Arcam EBM Ti6Al4V Grade 23, P-MtrlA Arcam EBM Nickel alloy 718, D-Mtrl Arcam EBM TiAl, D-Mtrl

- > Open software for process development
- > High heat materials capabilities
- > Stable, robust and established platform

