Calibur3® TECHNICAL SPECIFICATIONS





Neutral Beam Technology®

INTRODUCING NEUBEAM®

The next generation of electron beam metal additive manufacturing for large stress-free components.

NeuBeam[®] prints parts faster, requires fewer finishing steps, all within a more stable platform than competing technologies.



Large build volume for high rate production or large part sizes



Hot part process, producing large parts that are stress free



Optimum metallurgy through adaptable cooling control, using the speed of NeuBeam



Reduced time and energy with far fewer post-processing steps required



Industrial reliability built in, providing a stable platform for production environments



Sophisticated in-process monitoring accelerating application development

TECHNICAL DATA – CALIBUR3[®]

Build Volume	Build Volume: 300 x 300 x 450mm
	Upgradeable / Interchangeable build volumes:
	 100 x 100 x 150mm (optional material Dev kit)
	Sizes stated are max part size
Bed / Part Temperature	Up to 1000°C, dependent on build volume, material, etc.
Layer Thickness	Typically 50-90 um
Spot Size	Φ150 um tungsten on axis (100 um target LaB6)
Energy Source	Electron beam, 5kW @ 60kV
Electron Source	LaB6 crystal or tungsten filament (user option) – LaB6 2025
Deflection Speed	Up to 1000m/s
Machine Dimensions	Width 3270mm x Depth 1300mm x Height 3000mm
Access Area Required	See Installation Guide
File Туре	CLI file format (.cli)
Argon Consumption	610 litres / build
Air Supply	Minimum 5 bar
Machine Weight (net)	3.5 tonnes



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