

Success Story



Improving Laser Processing Throughput, Accuracy, & Results

The ScanMaster laser control solution, from our Cambridge Technology brand enables end-user control and management of their laser scanning solution. With a constant improvement mindset, Novanta ScanMaster controller and software frequently incorporates new, unique features and proprietary algorithms to improve process throughput and results quality, including:

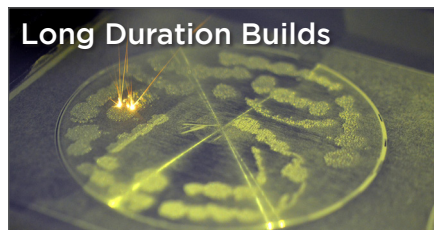
- **Intuitive user interface** for faster job creation
- **Easy job creation and flexible system integration** with object oriented ScanMaster API
- **Large field processing** with XY system integration with SyncMaster laser control
- **Higher throughput** with uniform laser power density, proprietary ScanPack algorithm with the fully digital Lightning™ II scan heads
- **Unique text-on-path feature** to input text around the path of a shape

Application specific features for high-precision applications:



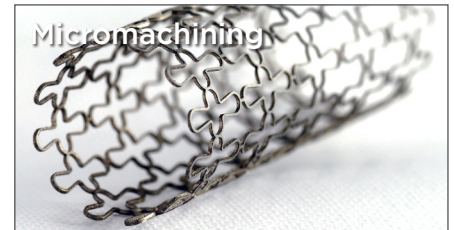
Additive Manufacturing

Trajectory Scan Time Estimation - estimate build times using both simulated and actual builds for a laser sintering machine.



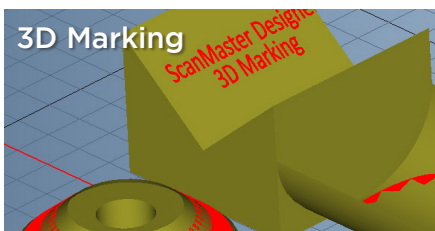
Long Duration Builds

Proprietary Algorithm - accurately delivers uniform laser power density and 24bit GSBUS command resolution



Micromachining

High Position Accuracy - 24bit GSBUS communication protocol delivers industry-best precision for demanding applications



3D Marking

3D Wrapping & Tracing - eliminates complex processes when applying 3D marking on curved surfaces.



High-End Marking

Skywriting - executes shapes and text at a constant marking speed with precision, delivering uniform laser energy distribution



Cell Therapy Manufacturing

High-Speed Polygonal Scanning - minimal set-up time, enables high-precision cell sorting for cell therapy manufacturing

Interested in speaking to one of our knowledgeable representatives?

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