

## 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:

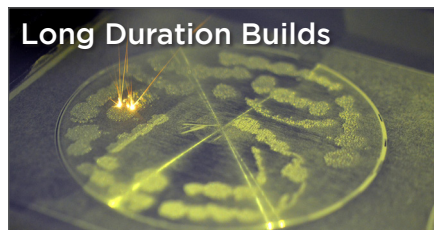
- **Intuitive user interface** for faster job creation
- **Easy job creation and flexible system integration** with object oriented ScanMaster API
- **Large field processing** with XY system integration with SyncMaster laser control
- **Higher throughput** with uniform laser power density, proprietary 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:



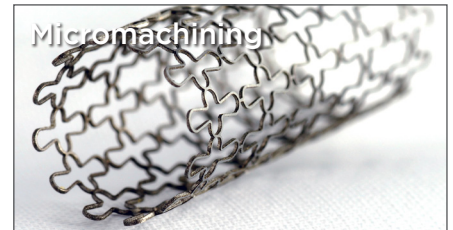
### Additive Manufacturing

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



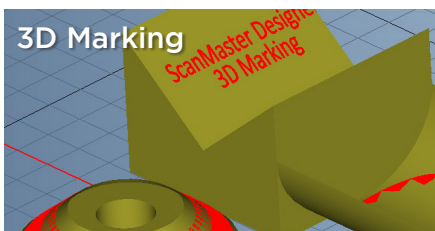
### Long Duration Builds

**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?

### Americas & Asia Pacific

Novanta Headquarters  
Bedford, USA  
P +1-781-266-5700  
Photonics@Novanta.com

### Europe, Middle East, Africa

Novanta Europe GmbH  
Garching, Germany  
P +49-89-31-707-0  
Milan, Italy  
P +39-039-793-710  
Photonics@Novanta.com

### China

Novanta Sales & Service Center  
Shenzhen, China  
P +86-755-8280-5395  
Suzhou, China  
P +86-512-6283-7080  
Photonics.China@Novanta.com

### Japan

Novanta Service & Sales Office  
Tokyo, Japan  
P +81-3-5753-2460  
Photonics.Japan@Novanta.com