

## **BEAM DELIVERY SYSTEMS AND CO<sub>2</sub> LASERS FOR ADDITIVE MANUFACTURING**

Build next generation systems with reliable, high-performing sub-systems and components for high repeatability and faster throughput.



# HIGH PERFORMING LASER PROCESSING

## MARKET LEADING SOLUTIONS

Novanta develops additive manufacturing solutions for SLS, SLM and SLA processes through our leading photonics brands Cambridge Technology and Synrad.

Complex geometries and throughput demands are driving innovative sub-system solutions that match laser sources with precise beam delivery systems. Extensive use of lattice, thin walled, and bionic structures can be achieved with the proper scanning solution. Laser processing minimizes surface roughness of processed parts, reducing finishing time and cost per part.

We bring together highly stable CO<sub>2</sub> lasers from Synrad and a wide range of beam steering systems from Cambridge Technology. Together, these sub-systems and components are used by OEMs to build market leading additive manufacturing solutions.



# HIGH PRECISION & RELIABILITY

## LASER BEAM STEERING

Our beam steering solutions from Cambridge Technology form the foundation upon which OEMs can build high performance Additive Manufacturing machines. Our scan heads feature impressive speed, accuracy, stability for faster throughput and capable of multi-headed machines to increase productivity. With our modular scan heads and self-tuning components, you can achieve flexible system configuration from the ground up.

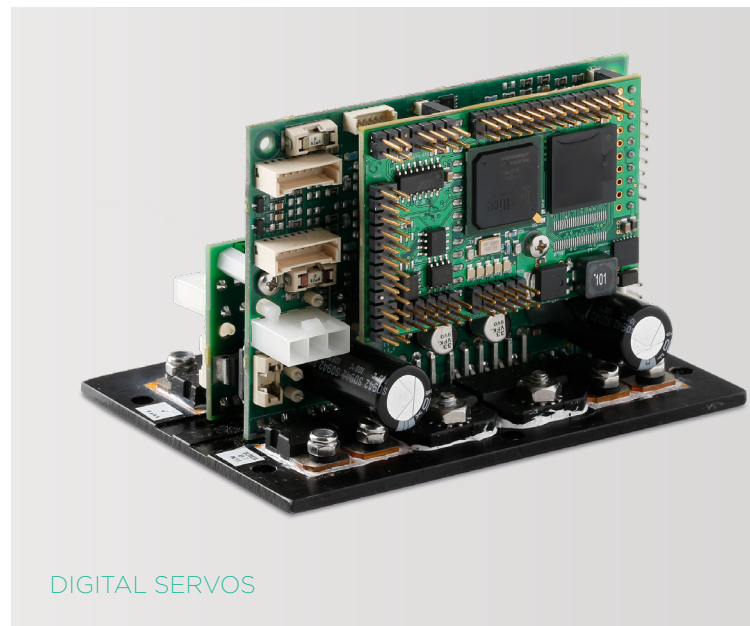
We deliver components and sub-systems that enable high quality parts, fast turn-around times and an easy to integrate solutions.



ENCLOSED SCAN HEADS



GALVANOMETERS



DIGITAL SERVOS



MODULAR SCAN HEADS

# EXCELLENT POWER DENSITY

## LASER SOURCES

Our beam delivery systems and CO<sub>2</sub> lasers from Synrad allow system integrators to build a tailored machine capable of producing high quality parts with high throughput and industry-leading precision.

Novanta gives 3D printing OEMs and system integrators maximum flexibility with similar beam exit heights and easy 3-point mounting systems. Engineers and technicians can rely

on operational similarities and the same high quality laser beam across all Synrad models.



# APPLICATION AND PROOF-OF-CONCEPT TESTING

Our local Applications Testing Labs offer application and proof-of-concept testing to local OEMs, providing laser processing expertise that will determine the key product parameters and processing know-how to achieve the desired results.



## CONTACT OUR SALES & SERVICE

### AMERICA, ASIA PACIFIC

Novanta Headquarters  
Bedford, USA  
**T** +1 781 266 5700  
**M** [photonics@novanta.com](mailto:photonics@novanta.com)

### EUROPE, MIDDLE EAST, AFRICA

Novanta Europe GmbH  
Wackersdorf, Germany  
**T** +49 9431 7984 0  
  
Milan, Italy  
**T** +1-781-266-5700  
**M** [photonics@novanta.com](mailto:photonics@novanta.com)

### CHINA

Novanta Sales & Service Office  
Shenzhen, China  
**T** +86 755 8280 5395  
  
Suzhou, China  
**T** +86 512 6283 7080  
**M** [photonics.china@novanta.com](mailto:photonics.china@novanta.com)

### JAPAN

Novanta Service & Sales Office  
Tokyo, Japan  
**T** +81 3 5753 2460  
**M** [photonics.japan@novanta.com](mailto:photonics.japan@novanta.com)