

# Laser welding machines with new features

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**LASER** World of **PHOTONICS** 

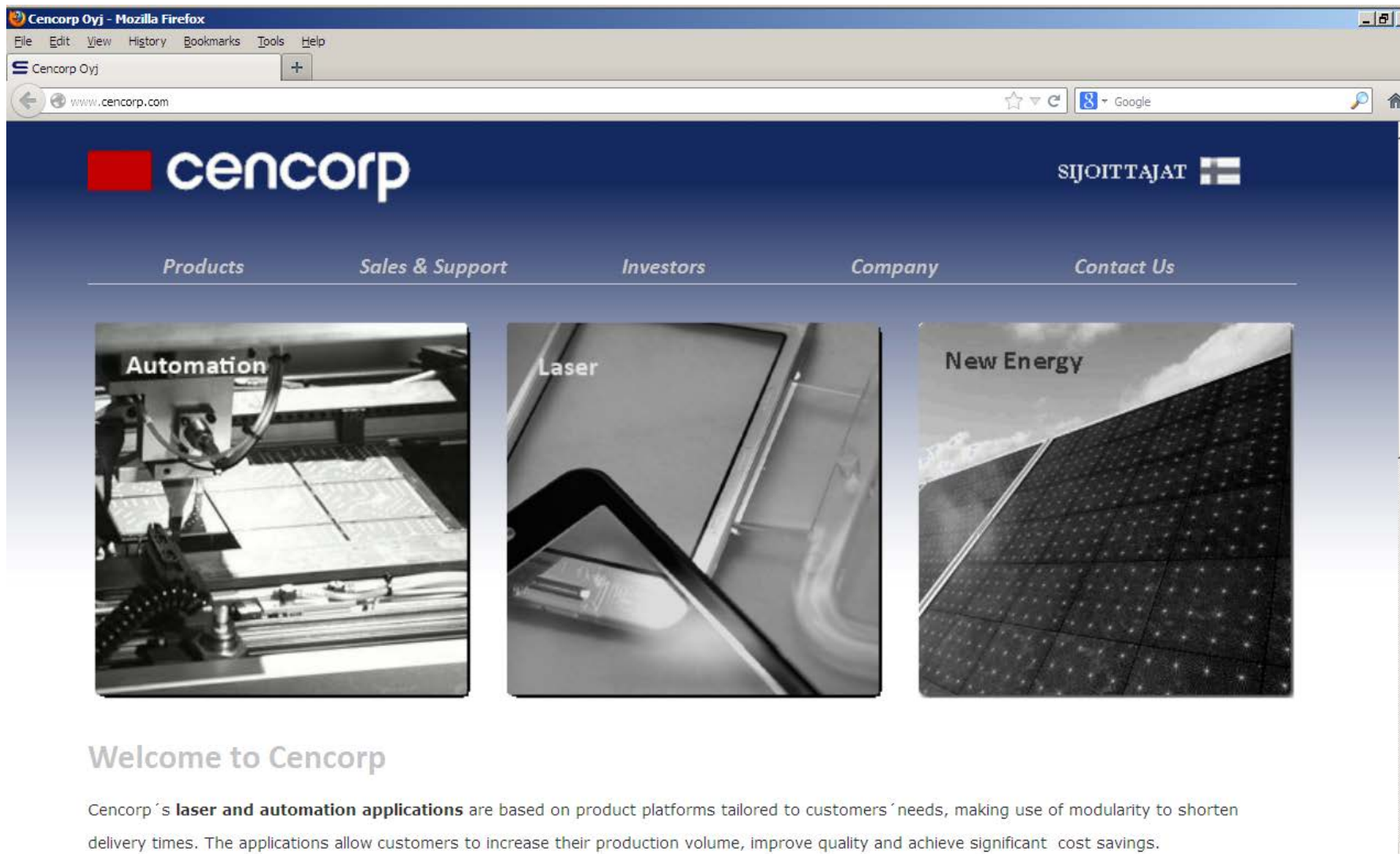
Laser Polymer Welding – Recent results and future prospects  
for industrial applications in a European research project

Munich, Germany

May 14, 2013



## Cencorp Oyj



**Automation**

**Laser**

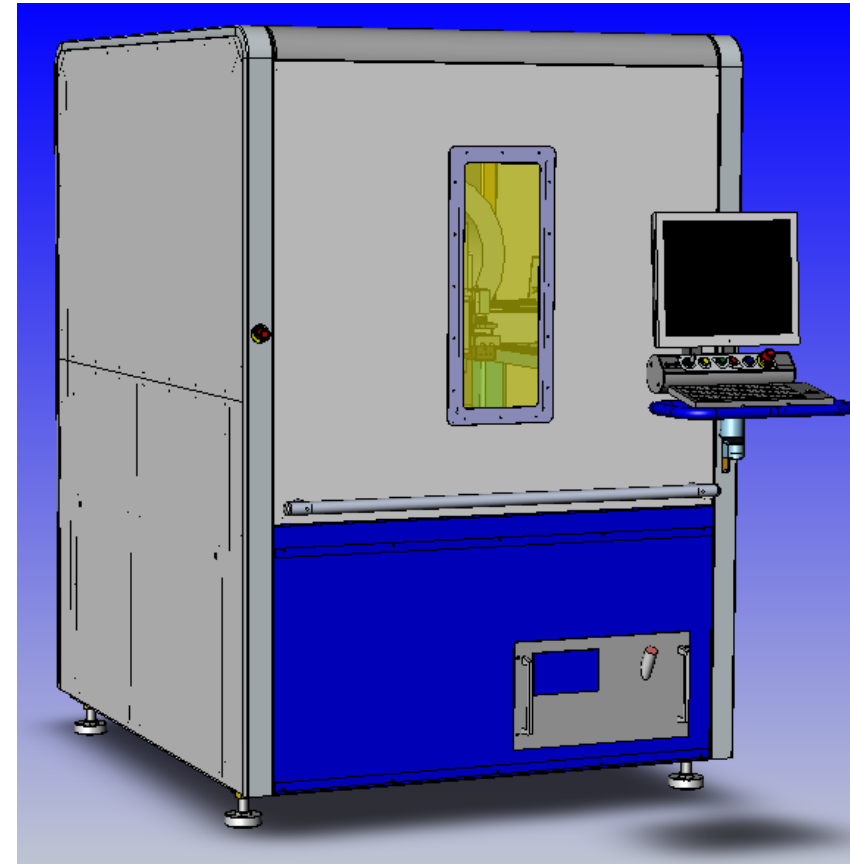
**New Energy**

### Welcome to Cencorp

Cencorp's **laser and automation applications** are based on product platforms tailored to customers' needs, making use of modularity to shorten delivery times. The applications allow customers to increase their production volume, improve quality and achieve significant cost savings.

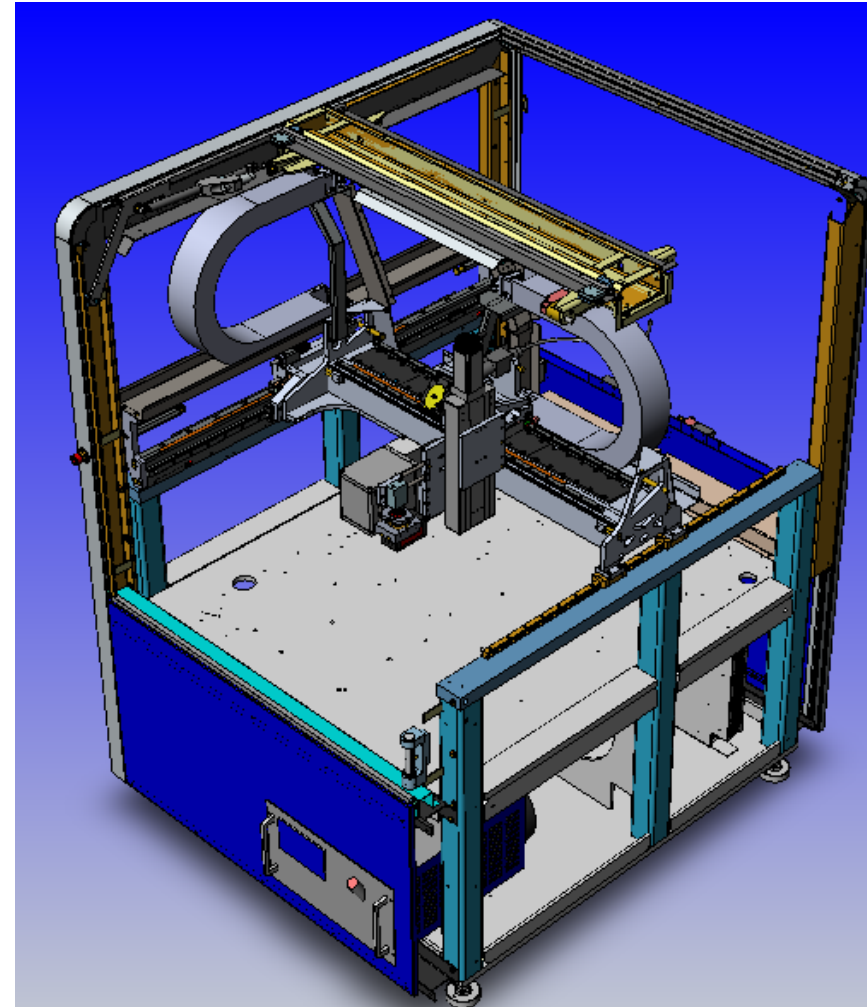
## Cencorp 1300 Offline QS

- Class 1 laser product
- Three axis robot + galvanometric scanner
- Size: L 1330mm D 1440mm H 1770mm
- Axis movement: X 744mm Y 800mm Z 200mm
- User interface: Cencorp custom solution
- Connection for fume extraction
- Ethernet connection
  
- Options
  - Rotary index table
  - Dual fixture
  - Quality control



## Cencorp 1300 Offline QS

- Possible welding methods
  - Quasi-simultaneous welding
  - Contour welding
  - Beam oscillation + contour motion
  
- Interesting project results from other WP's
  - Thulium fiber laser,  $\lambda$  1940 nm (IPG)
  - Intelligent power control (VTT)
    - Temperature control
    - Fast heating + long stay at wanted temperature



Thank you for your attention!