DMC Direct Machining Control

Additive manufacturing
Software for laser machines

DMC handles all the steps of the process, from path generation to machine control.

Access all parameters of your process.

"DMC is a powerful software tool used across the laser processing industry."

"DMC is a powerful software tool used across the laser processing industry. It is robust, intuitive, and versatile. The software is designed for openness, which provides our customers with full control of all standard and advanced process parameters, the ability to integrate multiple hardware components, the capability to implement custom codes for feedback approaches, and the potential to incorporate advanced functions through the use of custom plug-ins. These unique capabilities are valuable for both academic and industrial R&D, rapid prototyping, and production users."

DR. OLGA IVANOVA
Applications Lead
Open Additive, USA

DMC handles printing process from import of the model to cool down after printing. User can flexibly define the process slice by slice and implement complex strategies to achieve top results.
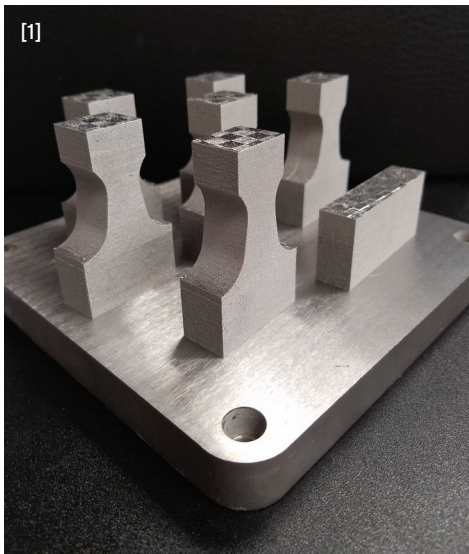
Key features

- Fast 3D model import, slicing and hatching.

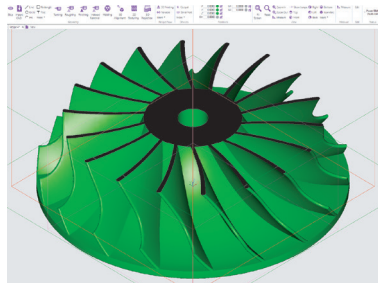- Handles complex systems with any combination of devices/tools:

  Multiple lasers

  Multiple galvo heads, can work on the same object

  Multiple extruders or any other tools

  DLP and SLM (Spatial Light Modulation)

[1]

[1] [2] "Photo by courtesy of NUI Galway"

Handle STL files with >10M triangles and prepare them for machining in seconds.

- Define different process parameters for each model and individual slices.

- DMC controls the whole process, from material spread to laser power and temperature/ sensor monitoring.

- Supports SCANLAB Open Interface.

Supported hardware list

GALVO SCANNERS

- Raylase SP-ICE
- Cambridge ScanMaster
- Canon
- Smart Move
- SCANLAB RTC with XLScan
- Others

CAMERAS

- IDS Imaging uEye
- Basler
- Mightex
- Hikvision
- GigE Vision
- Others

MOTION CONTROLLERS

- Newport XPS
- Polaris Motion Control
- ACS Motion Control
- Aerotech A3200/Automation1
- Zaber
- Delta TAU
- Others

OTHER DEVICES

- DLP
- Laser sources
- Power meters
- Displacement sensors
- Custom tools

*Support for additional hardware can be added on request (typically 1-2 weeks)

Try demo!
directmachining.com/demo

*Trial version includes all the features of the software

[2]

LET'S TALK
info@directmachining.com

FIND US
Direct Machining Control
Mokslininkų g. 2A
08412, Vilnius
Lithuania

SEE OUR WORK
www.directmachining.com
@DirectMachiningControl