



## FlexiBeam PI715

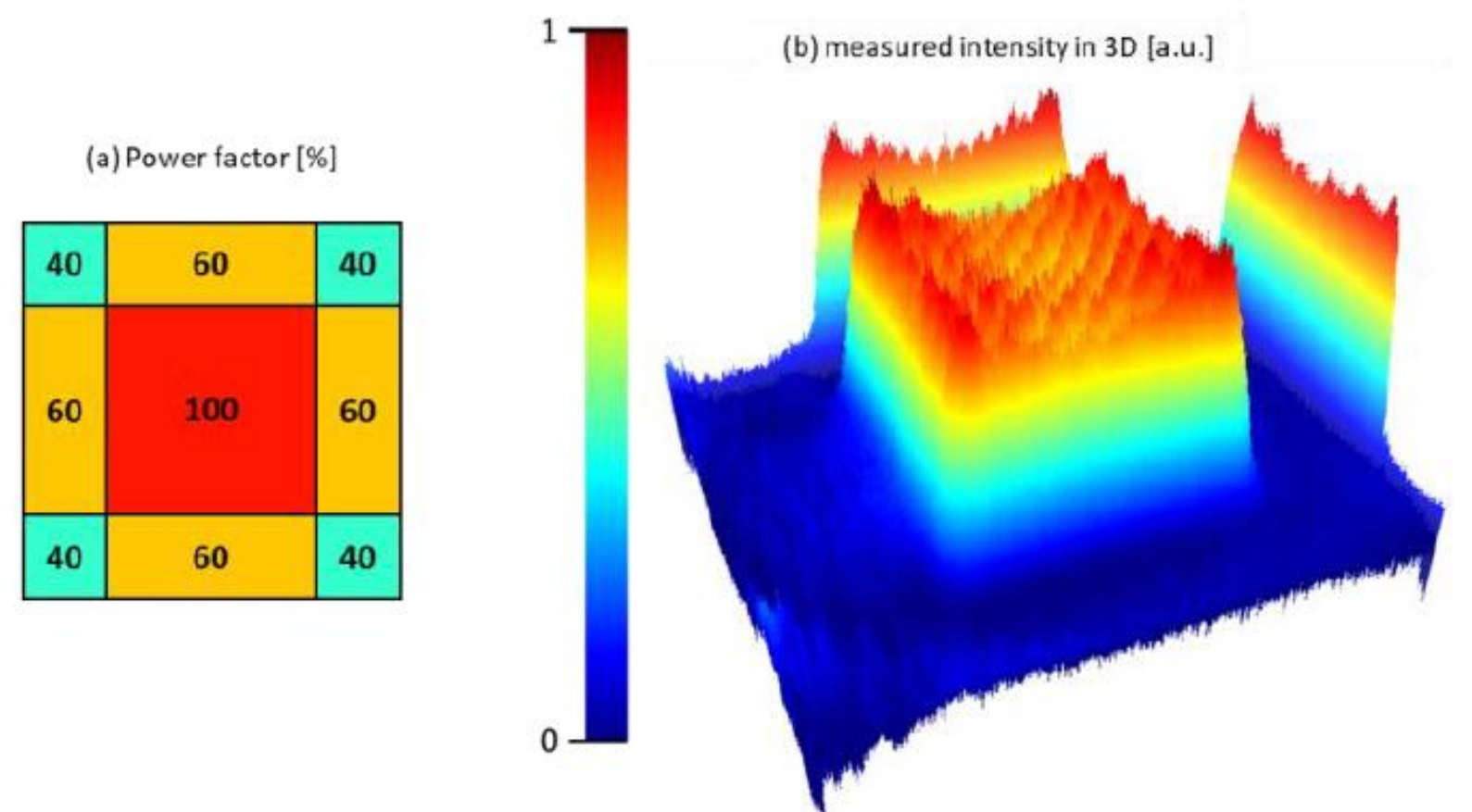
Laser material processing using flexible beam shaping, enabling complex intensity distributions

### Workcell with handling robot



Prototype laser facility at FHNW Windisch Switzerland

### Local temperature control



- Selected power levels and zones (left)
- Complex 'armchair' intensity profile (right)

### FPGA based controller

- flexible beam shaping
- fast pyrometric diagnostics
- excellent process control



FlexiBeam controller, developed and built by PI Electronics AG  
[www.pie.ch](http://www.pie.ch)



### Application areas:

- Laser Hardening (LTH)
- Laser Metal Deposition (LMD)
- Laser Remote Welding (LRW)

LMD test sample