CENTRE FOR LASER PROCESSING OF MATERIALS (CLPM)

Promoting and providing laser-based materials processing solutions and technologies for industrial applications

Major Activities
- Laser Metal Additive Manufacturing
- Laser Cladding
- Laser Brazing
- Laser Hybrid Welding
- Laser Welding
- Laser Hardening
- Laser Drilling

Major Processing Facilities
- Ultrafast Ti-Sapphire based Laser Micromachining System
  - 12W at 10kHz, 100fs-50ps and 100ns
  - 5-axis CNC with nm resolutions
  - Micro machining, micro texturing, micro-cutting, engraving, ablation
- Fiber Coupled Diode Laser
  - 200 – 6000 W CW/pulsed, 900-980 nm
  - 6-axis Robotic System with Turn and Tilt Table
  - Hardening, Cladding, Alloying, Re-melting, Conduction Welding, Direct Metal Deposition, Plastic Welding and Brazing

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