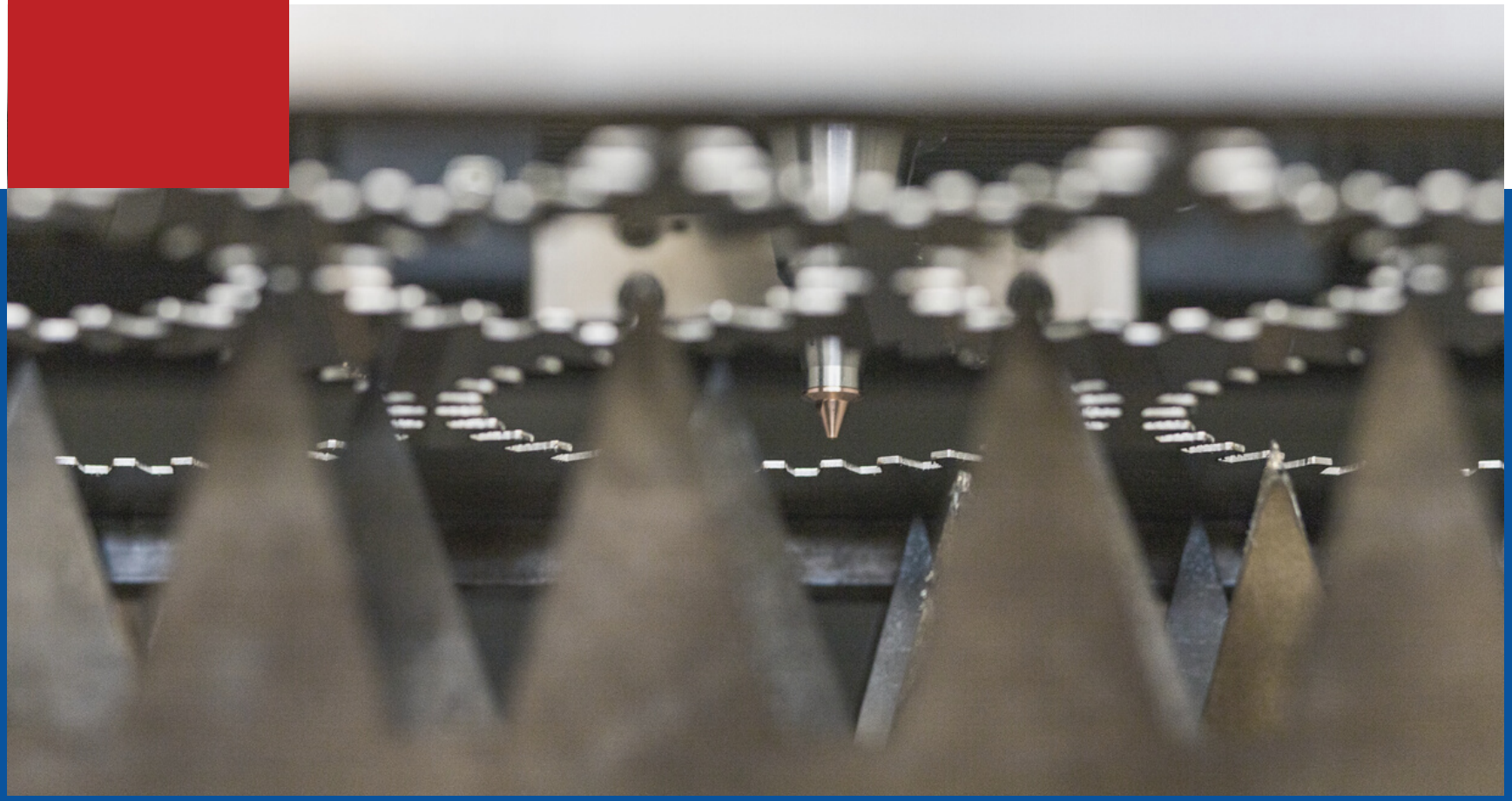
WE CREATE YOUR MACHINES

LAC
LASER APPLICATION CENTER



LAC EQUIPMENT

VÚTS
LIBEREC

LASER STATION LM05

LASER WELDING

- Laser source IPG YLS-1000-CT
- Max. power 1 kW
- Welding head HIGHYAG PSK
- Wavelength 1060 ± 10 nm
- Fiber Ø100 µm
- CNC control system - Siemens SINUMERIK 840D
- Connection option of working gas CO2, O2, N2, Ar, He
- Maximum table load 50 kg
- Max. dimension of the welded part 500 x 500 mm

LASER STATION LM108

2D LASER CUTTING

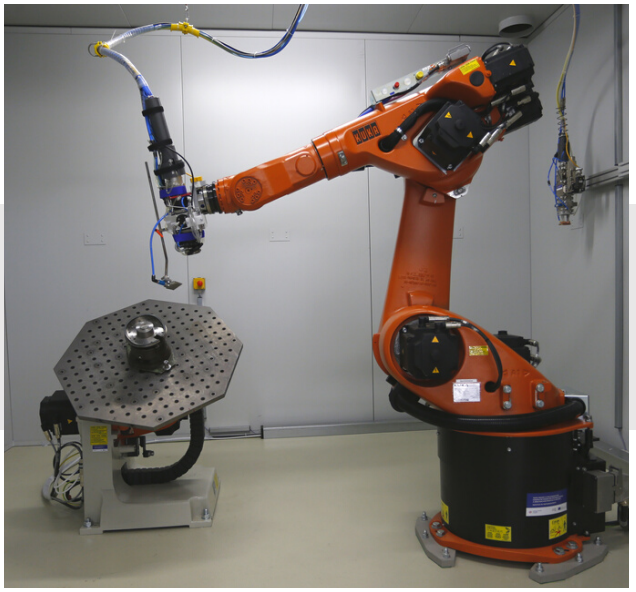
- Laser source IPG YLS-2000-S2T
- Max. power 2 kW
- Cutting head YK52
- Fiber Ø200 µm
- Wavelength 1060 ± 10 nm
- CNC control system - Siemens SINUMERIK 840D
- Connection option of working gas O2, N2
- Max. table load 150 kg
- Max. dimension of the plate 800 x 600 mm
- Cutting of steel and non-ferrous metal sheets up to a thickness of 4 mm

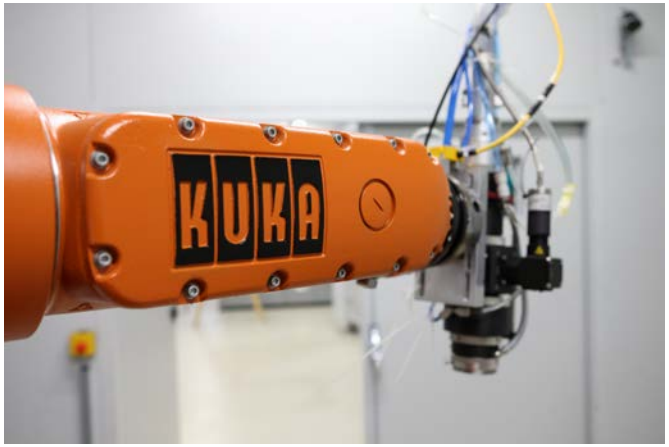
LASER CENTRE WITH 6AXIS ROBOT

- Robot KUKA KR60 HA
- Control system KR C4
- Positioner KUKA DKP400 (max. load 400 kg)
- Programming system SprutCAM
- Process temperature control using IR pyrometer
- Diode laser source Laserline LDF 4000
- Max. power 4 kW
- Expandability 10 kW
- Wavelength 1030-1060 nm
- Fiber Ø1000 µm
- Laserline hardening optics with spot modification
- Spots:

Ø 0,2-30 mm
4x4 mm
4x8 mm
4x16mm

- Laser welding head Precitec YW52 with cutting adapter Yk52
- Laser powder cladding - powder feeder GTV PF2/1
- Possibility to use the working gas of CO2,O2, N2, Ar, He

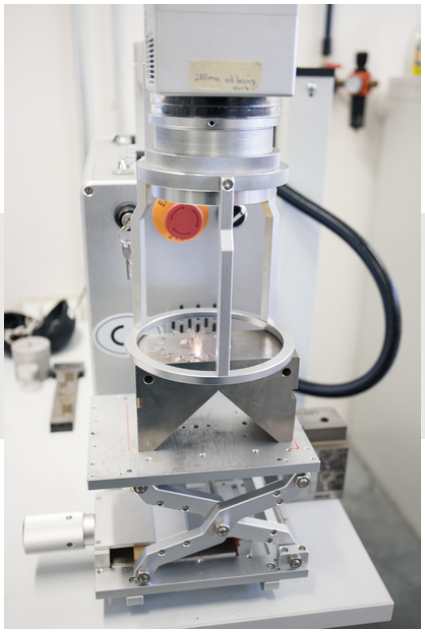


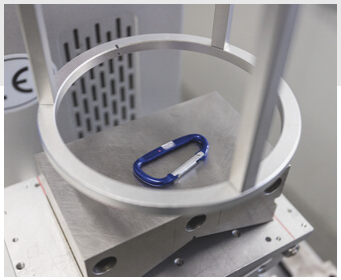


STAND – LASER PLASTICS WELDING

- Diode laser source IPG DLM-200
- Max power 200 W
- Wavelength 970 nm
- Spot Ø2 mm
- SW LaserDESK SCANLAB
- Laser scanning head intelliSCAN 30
- Workspace 300 x 300 mm

LASER MARKING MACHINE VELES F





- Diode laser source
- Power 20 W
- Wavelength 1060 - 1080 nm
- Frequency 2 - 200 kHz
- Scanning galvo head
- Workspace 110 x 110 mm
- Removable head for marking of larger objects
- Marking of metallic materials

METALOGRAPHIC LABORATORY

LABORATORY EQUIPMENT

- Saw Delta AbrasiMET
- Electrohydraulic press SimpliMet 1000
- Grinding machine / polisher EcoMet 250 with automatic head AutoMet 250
- Inverted microscope Im7520
- Stereomicroscope EMZ - 13TDR
- Hardness tester MicroMet 6000 with SW OmniMet MHT-F

- checking of the hardening depth
- hardness and microhardness measurement
- evaluation of the welded joints quality

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