

# LASER WELDING, SURFACING AND SURFACE ENGINEERING

Manufacture of components by the technology of welding, surfacing and surface engineering.

Development of technology for laser welding at customer and verification of possibilities for application of laser technology.



companies manufacturing the equipment **for the food industry**



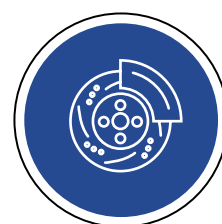
companies manufacturing the equipment **for the chemical and petrochemical industry**



companies manufacturing the equipment **for the pipeline system**



general **engineering companies**



**automotive industry**



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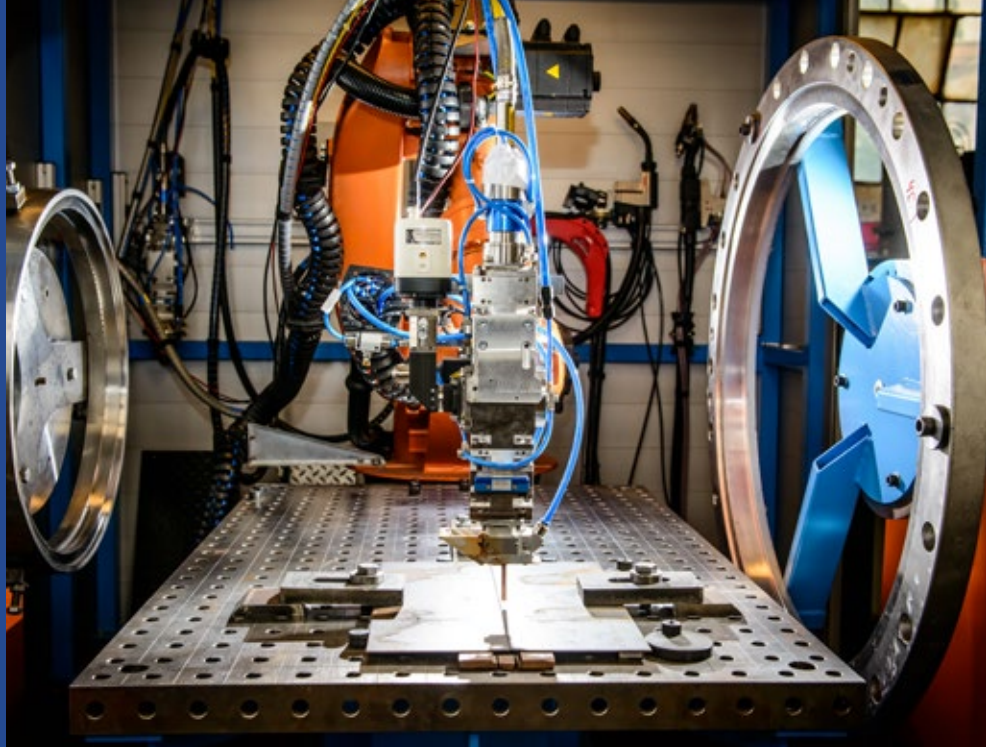
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# LASER WELDING IS A PROGRESSIVE WELDING METHOD WITH A BROAD APPLICATION IN DIFFERENT BRANCHES OF INDUSTRY.

It is applicable for all steel materials without exception and alloys.



## BENEFITS OF LASER WELDING

- » Higher speeds
- » Lower distortions
- » Narrower heat affected zone
- » Improved joint properties and broader possibilities for application of filler metals

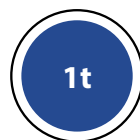
## APPLICATION OF LASER IN PRODUCTION PROCESS

- » Surface engineering: surfacing, hardening
- » Lower distortions
- » Tailored blanks
- » Pressure vessels and pipes
- » Brazing/soldering

## BASIC PARAMETERS OF A LASER CELL



Source of laser beam

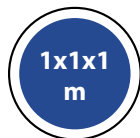


Load carrying capacity of positioners



Positioning system

## BASIC DIMENSIONS OF THE CELL



Spacing between the rotary positions



Maximum weight of weldments



Maximum weld thickness



Minimum weld thickness

