

ABICOR[®]
SYSTEMS



NEW

MPH Tactile laser optics with MFL-V3 wire feeder

2 strong units becoming a new
smart system solution



ABICOR
BINZEL[®]
LASER SYSTEMS

2 units becoming a smart new system solution

With this innovative system solution, you are well prepared for current and upcoming demands of laser joining processes.

Features

- Only one interface makes integration into your system fast and easy
- Common user interface for set up and monitoring of the process parameters
- Still 2 independent systems
- Optimized proven drive mechanics
- Reliable service concept



Service software

The communication interfaces from the MPH Tactile laser optics and the MFL-V3 wire feeder use a single hardware plug, while being independent from each other.

The fieldbus interfaces of both devices are independent from each other to ensure highest flexibility to set up and monitor process parameters.

Available options

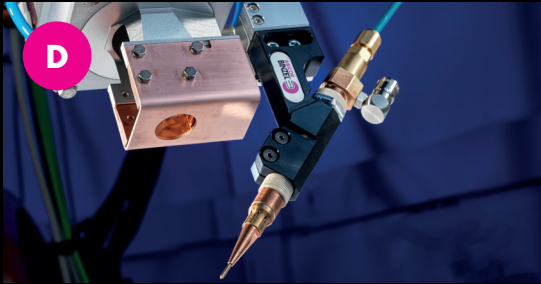
- Zoom collimation
- Tactile arm with flexible force adjustment
- Monitoring of all optical components
- Motorized lateral adjustment – beam to wire
- WELDEYE process monitoring from Lessmüller
- Integrated wire feeder MFL-V3



PTC-Box

The 'PTC-Box' is equipped with the required motion controller for the drives and ensures the performance of the feeding unit. This box is directly connected with the MPH Tactile control cabinet.

Smart system solution



MPH Tactile laser optics

The MPH Tactile laser optic is a very flexible tactile laser joining head and ensures highest maintainability on the market. It is ideal for producing high-quality seams at high speed for example in the automotive industry, rail vehicle construction and more and more also in the general industry.



MFL-V3 wire feeder

The MFL-V3 wire feeder consists of the drive 'MF3.2-Laser' and the control unit 'PTC-Box' which is directly connected to the MPH Tactile control cabinet. All in all, it includes completely new electronic hardware and focuses on quick and reliable response times.

MF3.2-Laser

The 'MF3.2-Laser' drive is built on the proven mechanical design from the previous laser drive generation and is equipped with a powerful new motor.

Let us talk about your challenges!

Technical data MPH Tactile

Laser power	cw-laser up to max. 10 kW
Wavelength range	900–1,100 nm
Numerical aperture fibre coupling	max. 240 mrad (half angle)
Swivel angle range	$\pm 120^\circ$
Height compensation range	± 5 mm
Lateral adjustment beam-to-wire position	± 1 mm
Lateral tactile force	up to 10 N
Vertical tactile force	up to 10 N
Addressable fieldbus systems	Profinet, EtherNet/IP, Profibus, DeviceNet

Technical data MFL-V3

Rocker arm pressure force	225 ± 40 N
Wire feeding speed	1–20 m/min
Wire diameter	0.6 mm–2.0 mm
Weight	2,715 g
Max. output power	252 W
Idle speed	6,800 r/min $\pm 10\%$
Max. continuous current	5.8 A



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