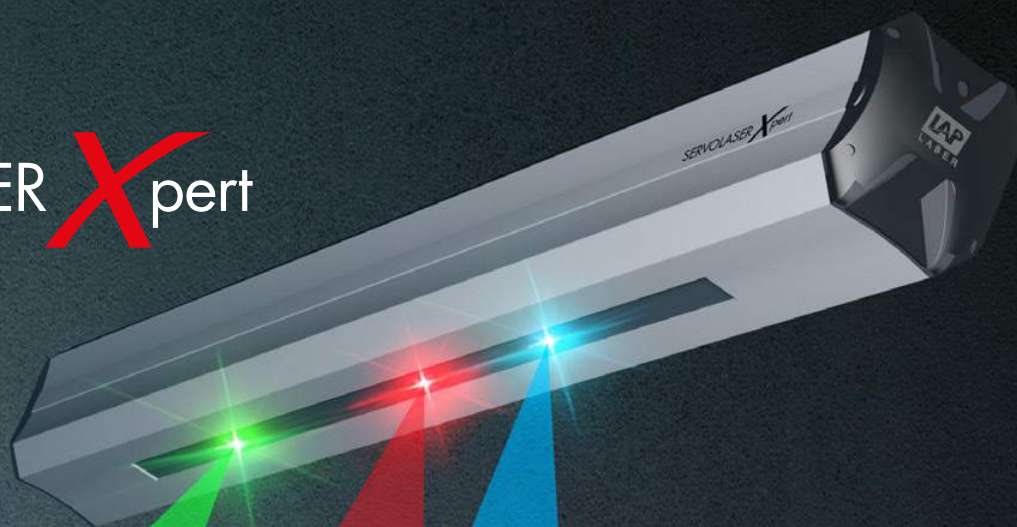


SERVOLASER **X**pert

EN



**MOVEABLE LASER LINES.  
CONTROLLED BY YOUR PRESETS.**





A detailed 3D rendering of an industrial machine, possibly a conveyor system or a large-scale manufacturing component. The machine is dark grey and metallic, with various rollers, gears, and structural beams. A laser alignment device, the SERVOLASER Xpert, is mounted on the machine. It is a long, silver, rectangular unit with a black end cap. Three bright laser lines (green, red, and blue) are projected from the device onto the machine's surface. The background is dark and industrial, with a grid-like pattern on the floor.

# SERVOLASER Xpert

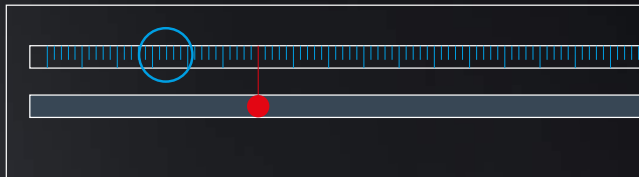
HIGH PRECISION LASER TECHNOLOGY FOR  
ALIGNMENT TASKS. PRECISE POSITIONING  
USING LASER LINES CONTROLLED BY YOUR  
PLC OR IPC. VERSATILE, FAST AND FLEXIBLE.

# SERVOLASER **X**pert

INCREASE SPEED AND QUALITY  
OF YOUR PRODUCTION

## THE PRECISION **X**pert

- High quality components like magnetic encoded straightedge
- High end production like individual manufacturing of each system
- High accuracy finishing like individual 3D linearisation of each rail



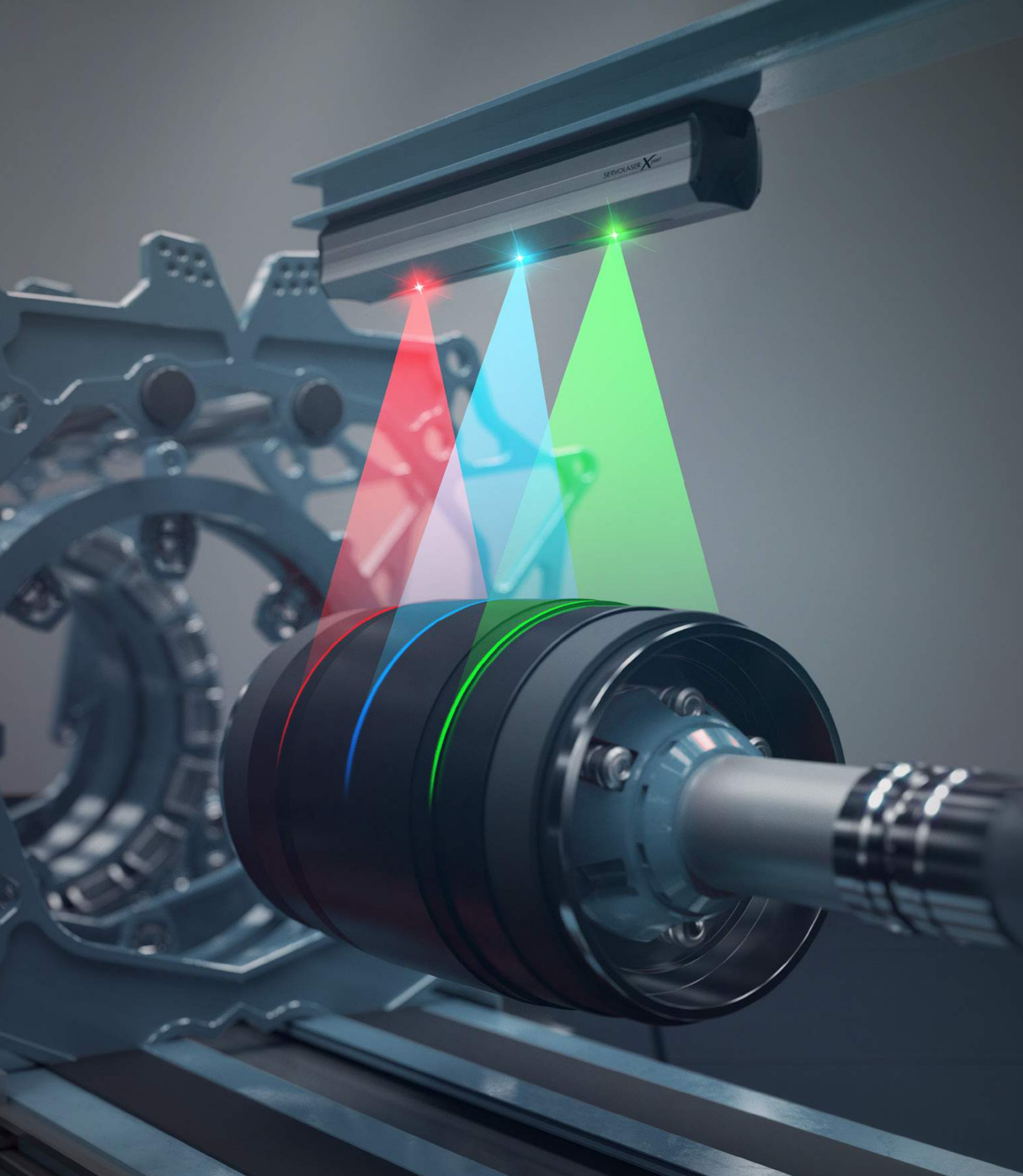
## THE VERSATILITY **X**pert

Select the optimum solution for your task from hundreds of possible combinations of moving range, laser modules and control interfaces.

### 7 DIMENSIONS OF MOVING RANGE







THE VISIBILITY **Xpert**



- Three laser colors to offer maximum contrast on your material
- Dimmable laser modules to optimize visibility on different surfaces.
- Focussing distance and depth of field are adjusted for your projection distance.




THE CONNECTIVITY **Xpert**

Standard Interfaces for the most common industrial protocols:



- Ethernet/IP   ■ Profibus DP   ■ EtherCAT \*
- Modbus TCP   ■ Profinet \*

Technical Data

Number of modules	1 or 2 movable lasers in one housing. Fixed center laser optional.
Wavelengths**	635 nm  520 nm  450 nm 
MTTF	> 30,000 h at 25 °C
Laser power	1 ... 40 mW (dimnable)
Laser classes	1, 2, 2M, 3R depending on laser power and opening angle
Standard-opening angle of laser modules	red, green: 90°; blue: 70°; other opening angles on request
Moving range	up to 2600 mm
Positioning speed	up to 1000 mm/s
Projection accuracy	±0.18 ... ±0.5 mm***
Line width	0.2 ... 0.6 mm (FWHM) at 1 ... 4 m focussing distance
Protection class	IP 54
Operating temperature	0 ... 40°C
Power supply	24 V DC
Interfaces	Ethernet/IP, MODBUS TCP, Profibus DP, Profinet*, EtherCAT*

\* coming soon   \*\*free selection and combination   \*\*\*depending on rail length, projection distance 1.0 ... 2.8 m

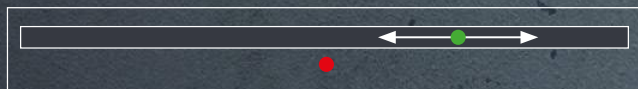


## CONFIGURATIONS

SERVOLASER Xpert offers one or two movable laserlines and one optional fixed centerline in one housing.



[SYMMETRICAL]



[FULL RANGE]



[MAX RANGE]



[www.lap-laser.com/servolaser-xpert](http://www.lap-laser.com/servolaser-xpert)



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