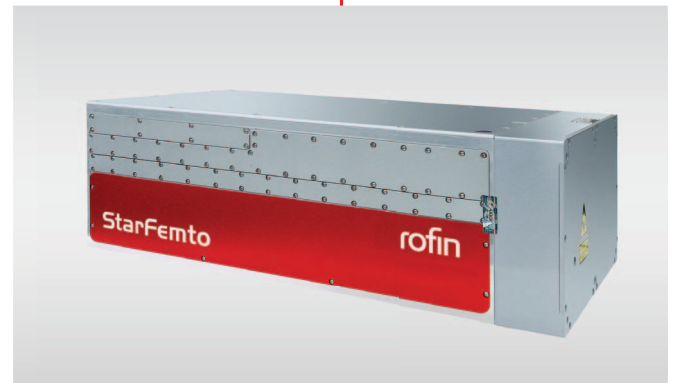


# StarFemto

## The Industrial Solution

**For laser micro material processing**



The StarFemto is a versatile tool providing excellent results in industrial laser applications such as high precision cutting, surface structuring, drilling and marking of almost all materials without thermal damage.

This reduces the number of process steps, increases yields and facilitates new features and applications in industries such as electronics, semiconductor, micro technology and medical device manufacturing.



### **ROFIN makes the difference**

- ROFIN Hybrid MOPA architecture
- Robust design
- ROFIN global on-site support
- Easy system integration and maintenance
- Made in Germany

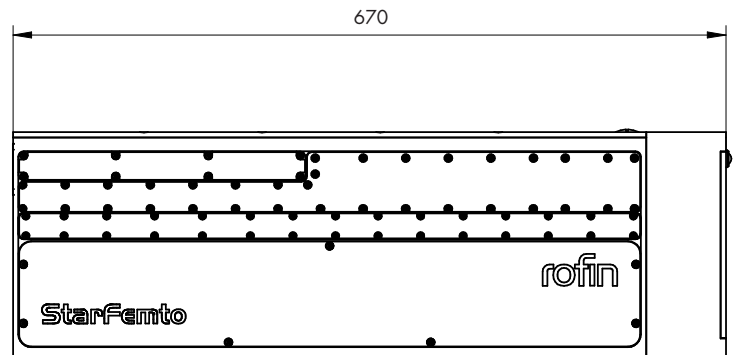
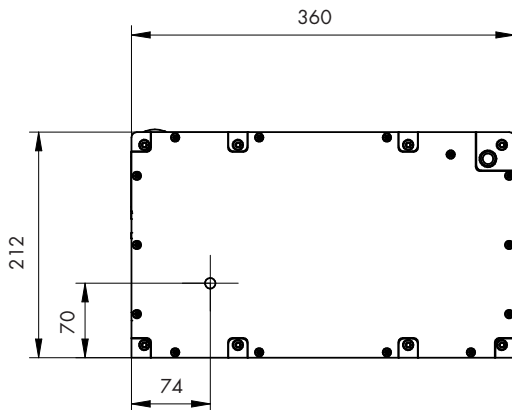
### **Optimized process quality and productivity**

- 700 fs pulse width
- 20 W laser power
- Programmable Burst Mode (patented)
- Repetition rate from single pulse to 2 MHz
- Fast parameter change
- Integration packages for various applications

### **ROFIN-BAASEL Lasertech**

is responsible for the laser micro market within the ROFIN group. The wide range of products includes lasers and laser systems for high precision welding, cutting, structuring and drilling. The complete product development is carried out in-house in direct cooperation with customers. Numerous innovations as well as lasers and laser systems installed all over the world indicate the creative energy and product quality of the ROFIN group **for more than 40 years.**

# StarFemto



## Specifications

StarFemto		E	M	L
Wavelength	nm	1030		
Max. output power	W	20		
Max. pulse energy	µJ	20	100	160
Pulse width (FWHM)	fs	700		800
Min. pulse repetition rate	Hz	1		
Max. pulse repetition rate	MHz	2		
Single pulse selection	MHz	up to 2		
Beam quality	M <sup>2</sup>	< 1.3		
Pulse peak power	MW	30	140	200
Beam diameter (1/e <sup>2</sup> )	mm	3.5 ± 0.5		
Beam divergence (full angle)	mrad	< 0.6		
Polarisation		Linear horizontal		
<b>Environmental and Electrical Operating Conditions</b>				
Electric	VAC/A	400 / 16		
Frequency	Hz	50/60		
Max. Power consumption	kVA	3.5		
Weight output module	kg	50		
Weight power supply cabinet	kg	230		
Operational temperature	°C	15 – 35		
Dimensions output module	mm (h x w x l)	212 x 360 x 670		
Dimension power supply cabinet	mm (h x w x l)	1.114 x 573 x 1.150		
<b>Options</b>				
Complete beam delivery accessories for cutting, ablation, drilling and marking applications				
Power supply as 19" rack mount units for integration				

### LASER MICRO

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