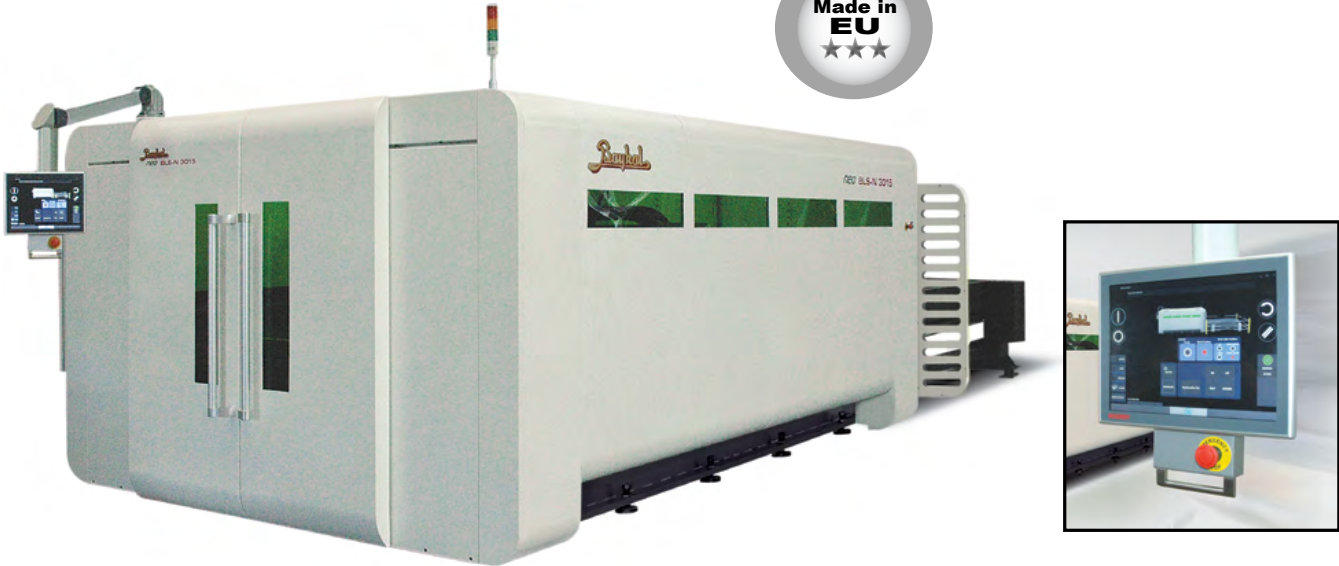


# Fiber laser type BLS-NEO

Best  
Quality

Made in  
EU  
★★★



**BLS-NEO** fiber laser cutting machine uses two-dimensional drawings over the flat plate by moving the focused infrared light along the programmed pathways to cut. The system moves the laser light with fiber optic cable to the focuser cutting head, which moves on the fixed sheet metal. The cutting process occurs by melting the material in the area, where high-power laser light focused in very small diameters allows this to occur. Different gases are used to eject melted material from the surface of plate, according to type of materials. These gases exit from the nozzle, where the laser light exists and control the quality of process.

**BLS-NEO** fiber laser cutting offers the best solution to the user for cutting quality, precision, high cutting speed and low cost in cutting of fine material. It is possible to obtain these features at all high cutting speeds. BLS-NEO makes it possible to cut big or special size plates and offers competitive performances against similar fiber laser cutting machines in the industry.

- *Precise and ease of processing both large and small size formats.*
- *High speed and high precision servo motion system.*
- *No repositioning of plate ensures optimum accuracy.*
- *Fiber optic laser delivery system.*
- *Simple operator interface and cutting database.*
- *CNC controlled hydraulic lift-up dual shuttle table.*
- *Easy accessible remote diagnostic functions.*
- *Long lens life because of lens protection.*

## Benefits with BLS-NEO Fiber laser

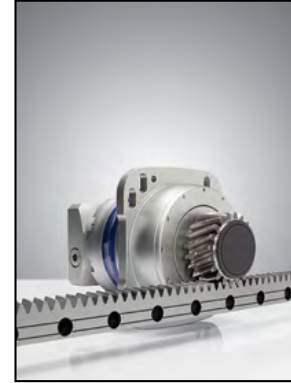
- *low investment and operating costs.*
- *The most cost-efficient solution for every requirement.*
- *Very easy to operate.*
- *Quick and easy installation.*
- *Fast loading and unloading.*
- *Optional flexible shuttle table sizes.*
- *High-position control.*
- *Continuous cutting with moving shuttle table.*



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## Cost-efficient manufacturing:

BLS-NEO can be used with perfect precision that is provided by rack and pinion movement and also operate with a greater speed as compared to CO2 lasers. In addition, this laser technology offers low costs compared to a CO2 laser which is brought about by fiber technology.

## Maximum productivity – High acceleration:

BLS-NEO fiber laser cutting machine was designed as a bridge type, which is driven from both sides. Machine body, rigid and supply voltage are taken and offers high cutting accuracy and repeatability due to the very precision processed structure. Besides extraordinary robustness, it provides vibration-free cutting due to the supply rigidity, which was created by using innovative concepts and designed as one piece. High acceleration offers more precision while processing especially small diameter holes and sharp corners at high speeds.

## Automatic nozzle cleaning:

BLS-NEO carries out this process automatically according to the number of holes produced, which are determined by the CNC controlled nozzle cleaning and calibration feature. In this way, molten material that adheres to the nozzle end can be cleaned and thus cutting height of nozzle to the sheet plate can be kept constant. This directly affects the quality of cutting.

## User-friendly and reliable controller:

The multi-touch panel series from Beckhoff offers the greatest possible flexibility. The Beckhoff multi-touch panels with projective capacitive touch screen (PCT) technology feature a high touch-point density, which enables accurate, safe and jerk-free operation even in minute steps. The front of the display is a glass pane with an anti-reflection coating; operation with thin work gloves (e.g. latex gloves) is also possible. Five-finger touch and automation solutions with 2-hand operation are equally possible. Familiar functions from the world of smartphones and touchpads, such as zooming, scrolling, object turning, flicks etc. are now also usable for industrial applications with the multi-touch devices. Single-touch mode can be set via the windows operating system for applications where multi-touch is not required.

Type	Width	Length	Height	Cutting width	Cutting length
	mm	mm	mm	mm	mm
BLS-NEO 3015	6550	10500	2250	1500	3000
BLS-NEO 4020	7050	12500	2250	2000	4000
BLS-NEO 6020	7050	16500	2250	2000	6000
BLS-NEO 4030	8050	12500	2250	3000	4000
BLS-NEO 6030	8050	16500	2250	3000	6000
BLS-NEO 8030	8050	20500	2250	3000	8000

Capacity	Steel	Stainless	Alu	Copper	Brass
Power source	mm	mm	mm	mm	mm
1000 watt	12	4	3	2	1
2000 watt	15	8	6	3	3
3000 watt	18	10	8	4	4
4000 watt	20	12	10	6	4
6000 watt	25	15	15	8	8