



Gantry fiber laser cutting machine , enclosed type , with bevel cutting.

This technical specification defines the requirements for the supply, delivery, installation and training of personnel for a gantry type fiber laser cutting machine with bevel cutting function. All equipment and services must comply with EU and CE standards.

	Parameters		
1	Working area X axis Y axis	no less than	24200 mm. 2550 mm.
2	Permissible load on the working table	min.	650 kg/m ²
3	Working movements X axis Y axis Z axis A axis B axis	no less than	24200 mm. 2550 mm. 150 mm. ±45° ±45°
4	Working movements for straight cutting X axis Y axis Z axis	no less than	24200 mm. 2550 mm. 150 mm.
5	Possible angle of bevel cutting (A,B axis)		±45°
6	Maximum possible dimensions of the workpiece during bevel cutting (bevel cutting of the top and bottom edges of the workpiece - V, X, Y, and K groove types.)		X - 24100mm. Y - 2550mm.



7	Positioning accuracy X axis Y axis Z axis A axis B axis	or less	±0.1 mm. ±0.1 mm. ±0.1 mm. ±0.1 ° ±0.1 °
8	Repeated accuracy X axis Y axis Z axis A axis B axis	or less	±0.06 mm. ±0.06 mm. ±0.06 mm. ±0.01 mm. ±0.05 ° ±0.05 °
9	Acceleration X,Y,Z axis A,B axis	no less than	0.5G 30s/RAD ²
10	Output power of fiber laser source	min.	30 kW
11	CE safety equipment : 1) Completely enclosed portal 2) Sectional table with dust extraction system 3) Dust removal system with filters 4) Light barriers front and back of the portal 5) Remote video control system in the cutting area and behind the portal 6) CE standard windows that do not transmit fiber laser radiation from the cutting area		
12	Control system (FSCUT9100(BEVEL) or equivalent)		5 axis for bevel cutting



13	<p>The control system must include special additional functions :</p> <ol style="list-style-type: none">1) Including 3D scanner option for intelligent scrap reuse system and for secondary bevel cutting option in future use.2) Possibility of control of the following parameters of the cutting head :<ol style="list-style-type: none">a. Protective lens temperature monitoringb. Cutting gas pressure monitoringc. Seals failure detection3) LAN support for transferring control programs and communication with the service for remote diagnostics of the laser source and machine systems
14	<p>The delivery set should include:</p> <ol style="list-style-type: none">1) Voltage stabilizer (of suitable power to power supplied equipment)2) Chiller (for cooling the laser source and cutting head)3) Cabinet chiller (for motion control cabinet)4) Nesting software for bevel cutting (license for 1 year min.)5) Air compressor specially designed for laser cutting (16Bar , 4.2m³/min.)6) Starter kit of consumables for laser head
15	<p>Warranty :</p> <p>Laser source – min. 3 years Machine base construction – min. 5 years Others components – min.1 year</p>
16	<p>Installation and training :</p> <p>At the installation site by authorized representatives of the manufacturer</p>
17	<p>Delivery and Installation Terms:</p> <p>The delivery, installation, and commissioning of the equipment shall be completed within 12 months from the date of contract signing.</p>



18	<p>Delivery and Installation Address:</p> <p>DAP (Incoterms 2020) Sloka 7122, Jurmala, LV-2011, Latvia</p> <p>The total contract amount must include complete delivery, installation, commissioning, and personnel training.</p>
19	<p>Documentation and Training:</p> <p>The Supplier must provide complete technical documentation, manuals, and CE certificates in English (Latvian version is appreciated if available). The Supplier shall conduct on-site operator and maintenance training at the installation location.</p>
20	<p>Warranty and After-Sales Service:</p> <p>The Supplier must provide warranty service as stated in the technical specification. Response time to critical failures must not exceed 48 hours. For complex issues, the Supplier must provide a troubleshooting and resolution plan, including clear communication with the Client regarding repair steps and estimated time frames. For routine issues, repairs must be carried out within a reasonable timeframe to avoid production delays.</p>
21	<p>Delivery Terms (DAP):</p> <p>Delivery terms shall be DAP Sloka 7122, Jurmala, LV-2011, Latvia (Incoterms 2020). The offer price must include complete installation and commissioning of the equipment, ensuring full operational readiness at the Buyer's site.</p>
22	<p>Final Note:</p> <p>All parameters and requirements specified in this document represent the optimal and minimum acceptable technical levels for the equipment. Suppliers are encouraged to propose solutions that offer equal or improved characteristics compared to those stated in this specification. Proposals with parameters below the stated requirements will not be accepted.</p>