CUTTING
WELDING

SINCE 1898

ZINSER

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ZINSER 1825 Fiber Laser · ENG · 504 1825 00 - 01 0 01 · 2018-08 · Subject to modifications

WELDING COMPANY

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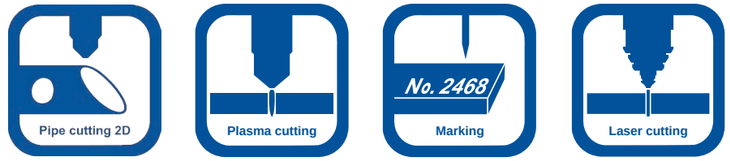
ZINSER 1825-S Fiber Laser

Portal machine for laser and plasma cutting

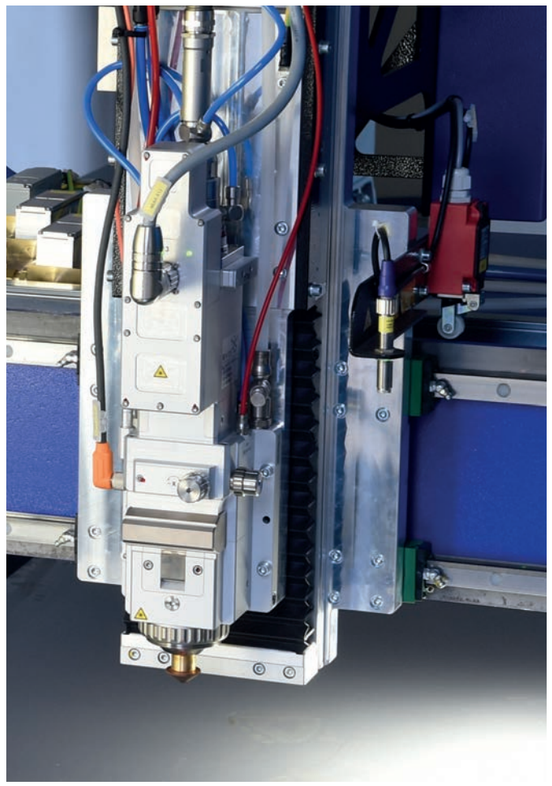
Made in Germany
Since 1898

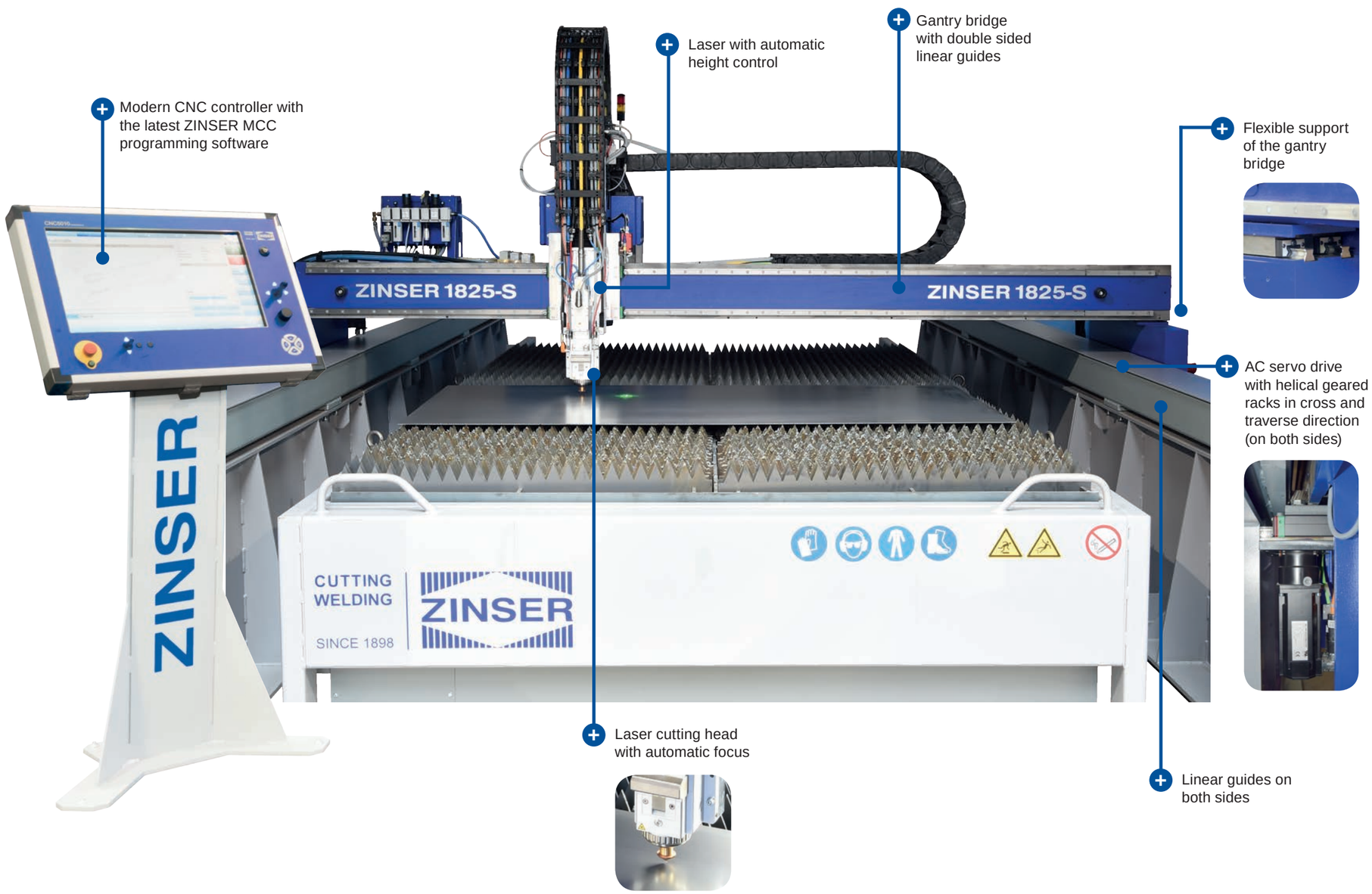
Highly dynamic cutting sytem for laser cutting



The **ZINSER 1825-S Fiber Laser** is a high-quality guiding machine for laser and plasma cutting and for combined cutting tasks. The portal machine unites the required speed and precision for laser and plasma cutting with the robustness and longevity of an industrial machine. The **ZINSER 1825-S Fiber Laser** has a double-sided AC-drive and linear resp. ball rail guides for the X-axes (25 mm) and Y-axes (35 mm).

The **ZINSER 1825-S Fiber Laser** has been developed especially for laser cutting. All components of the machine are tailored to the specific requirements of this cutting process.



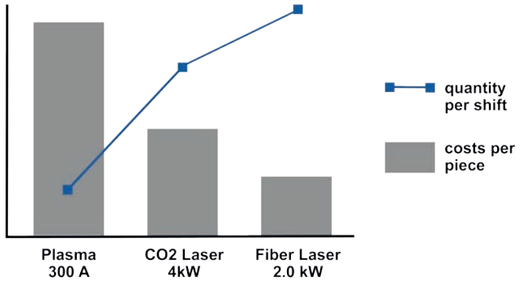


Your advantages with the ZINSER 1825-S Fiber Laser

Economical advantages

- Very economical entry into the world of laser cutting
- Minimum cutting costs for laser quality
- Lower operating and maintenance costs compared to plasma

- Example mild steel with 3.5 mm thickness



Cutting quality

- Exceptional cutting quality
- Superior angularity compared to plasma cutting
- Can cut holes with a diameter-thickness-ratio of less than 1:1

Advantages of a solid state laser compared to a CO_2- Laser

- The laser beam is guided in glass fiber from the resonator to the beam generation system, therefore almost no maintenance is required
- No adjustments and no maintenance of mirrors needed
- No need for gas purging of the beam path
- Higher efficiency

Your advantages with the ZINSER CNC controller

- Modern ZINSER CNC controller
- Programming software
- Adaptation to special tasks possible at any time
- ZINSER MCC programming software

Machine characteristics

Gantry bridge

- High precision gantry manufactured according to the most modern production standards
- Flexible support of the gantry bridge
- Double-sided linear guides (ball rail guides) with helical geared racks in traverse and cross direction

Track / Y-drive

- Double-sided digital AC servo drive
- Perfect running smoothness through reinforced linear guides on both sides
- Smooth operation and high angle accuracy by the use of selected helical geared drive racks
- Hardened drive pinions

Safety features

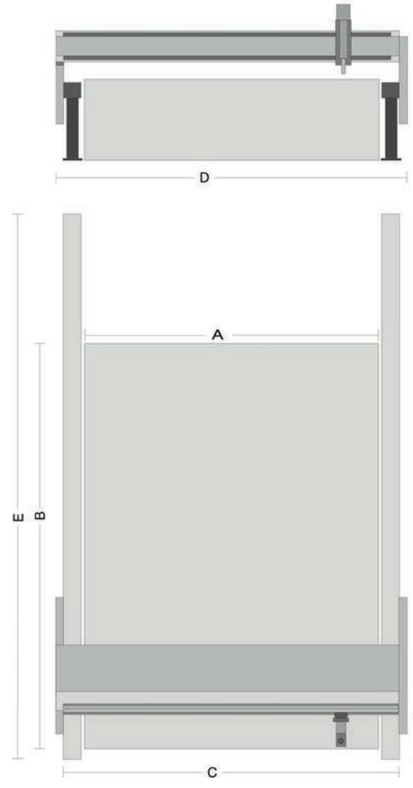
- Completely enclosed machine housing for optimum safety for both the process and the operator
- A DCC camera enables the control of the cutting proces

Environmental / additional technology

- Stand-alone CNC controller
- Cutting table with exhaustion, PLC controlled flaps
- Cartridge filter unit with pneumatic exhaustion
- Manual or automatic shuttle-tables

Technical data

	ZINSER 1825 Fiber Laser
Track width (C):	1,685 - 4,685 mm (in 500 mm steps)
Working width (A) (with 1 torch):	C - 750 mm
Machine width (D):	C + ~300 mm
Machine length (E):	Working length (B) + 1,800 mm
Max. number of torch carriers:	2
Cutting thickness:	depends on laser system
Drive:	AC - servo drives
Input voltage:	400 V / 50 Hz
Cutting speed:	up to 18,000 mm / min (depending on laser system)



A = Working width
B = Working length
C = Track width
D = Machine width
E = Machine length
F = Controller width
G = Controller length