CUTTING
WELDING

SINCE 1898

ZINSER

ZINSER 4025-L Large-Format Fiber Laser

Exceptional precision with large-format sheets.



Gantry-mounted mobile housing

Simultaneous Cutting and Loading/ Unloading

Continuous Process Monitoring

Laser Safety Class 1

High-Quality Cutting Technology ▪ 100% made in Germany by ZINSER

Professional Fiber Laser Cutting Machine

Reliable. Precise. Efficient.



Your Benefits

ZINSER fiber laser technology for maximum performance

	High cutting speed	achieves **maximum efficiency.**
	Short processing times	increase your **productivity**.
	Premium laser components	deliver **outstanding cutting results.**
	Intelligent CNC technology	ensures **intuitive and efficient operation.**
	Network technologies	enable **seamless integration into modern production environments.**

Technical Specifications

ZINSER 4025-L large-format fiber laser

- Track width – adjustable in 500 mm increments
  Maximum track width: 5,100 mm – corresponds to a working width of 4,500 mm
  Minimum track width: 2,100 mm – corresponds to a working width of 1,000 mm
- Laser power: 3 up to 30 kW
- X/Y-axes positioning accuracy: according to DIN EN 28206

Advanced Laser Cutting Head

for maximum flexibility and outstanding cut quality

ZINSER fiber laser cutting systems are designed to deliver exceptional precision and consistent results.

- Precision autofocus for optimal cutting accuracy
- Efficient cutting gas flow
- Consistent cut quality across the entire working area
- Continuous monitoring of all optical key components and the relevant cutting process signals
- Fully enclosed cutting area
- Versatile material processing – suitable for a wide range of steels and other metals
- Efficient water cooling for consistently high cutting performance
- Quick and easy replacement of the protective window

Built for daily industrial operation

- ✓ Laser power: 3 up to 30 kW
- ✓ Maintenance-friendly design
- ✓ Integrated sensors monitor temperature, stray light, pressure and contamination of the protective window and lens
- ✓ Optimized height and gas control for outstanding cutting quality





Built for Precision. Engineered to Last.

Because precision starts with stability.

- ✓ **Robust welded construction –** outstanding stability, even under high loads
- ✓ **Precision guideways –** excellent positioning and angular accuracy
- ✓ **Smooth machine operation –** consistent cut quality and reliable processes
- ✓ **Durable components –** dependable performance for years to come

100% ZINSER Service – personal support you can rely on

100% spare parts availability – minimizing downtime and keeping your production running

Direct access to ZINSER technicians – fast, expert support for technical questions and maintenance

Intelligent CNC Technology



Intuitive operation

- User-friendly menu
- 19.5″ Full HD multi-touch display
- Joystick for manual positioning and scrap cuts

Gantry-mounted CNC control unit

- Always close to the cutting process
- All essential functions at a glance

Advanced process monitoring

- Continuous monitoring of all process gases
- Full integration of process parameter monitoring into the CNC control system
- Real-time process monitoring via integrated live cameras

Process database

- Fully customizable and expandable databases for all cutting parameters

Automatic gas control

- Precise control of all process gases (air, oxygen and nitrogen) via proportional valves

Automatic sheet detection & alignment (sheet position detection)

- Automatic sheet position detection and zero-point determination
- Reduced setup time

Automatic height control

- Maintains a constant distance between the cutting nozzle and the sheet surface
- Integrated collision protection

Remote diagnostics & error logging

- Remote maintenance and support
- Integrated error log

Interfaces & connectivity

- OPC UA interfaces for production data acquisition and Industry 4.0 integration

High-performance control hardware

- Industrial PC with Intel i5 processor
- 256 GB NVMe SSD
- 8 GB DDR4 RAM
- Microsoft Windows 11 IoT Enterprise

Compatible with ZINSER Nest

One single software solution for all cutting machines
Oxy-fuel · plasma · laser · drilling

- ✓ 2D CAD functionality for designing parts
- ✓ Automatic and manual nesting
- ✓ Integrated technology databases including lead-in parameters
- ✓ Definition of cutting sequences – automatically or manually
- ✓ CNC program generation
- ✓ Time and cost calculation

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