

CUTTING
WELDING

SINCE 1898



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ZINSER BeamBot

Plasma/Laser Notching Robot for Automated Beam
and Profile Processing

More than just
a cutting system.



ZINSER BeamBot · ENG · 504195000-00001 · 2025-08 · Subject to modifications

Fully automated high-performance machining with the ZINSER BeamBot:

- ▶ Precise laser cutting – for contours, holes, and optimal cutting quality
- ▶ Plasma cutting up to 1,200 mm profile width – designed for heavy steel beams and large sections
- ▶ 360° machining for comprehensive four-sided processing
- ▶ Intelligent 3D scanning and sensor technology – automatic profile measurement, position detection, and precise real-time positioning
- ▶ Versatile additional functions (optional with laser configuration):
Notching, weld seam preparation, end capping, marking, hole cutting with laser-quality precision

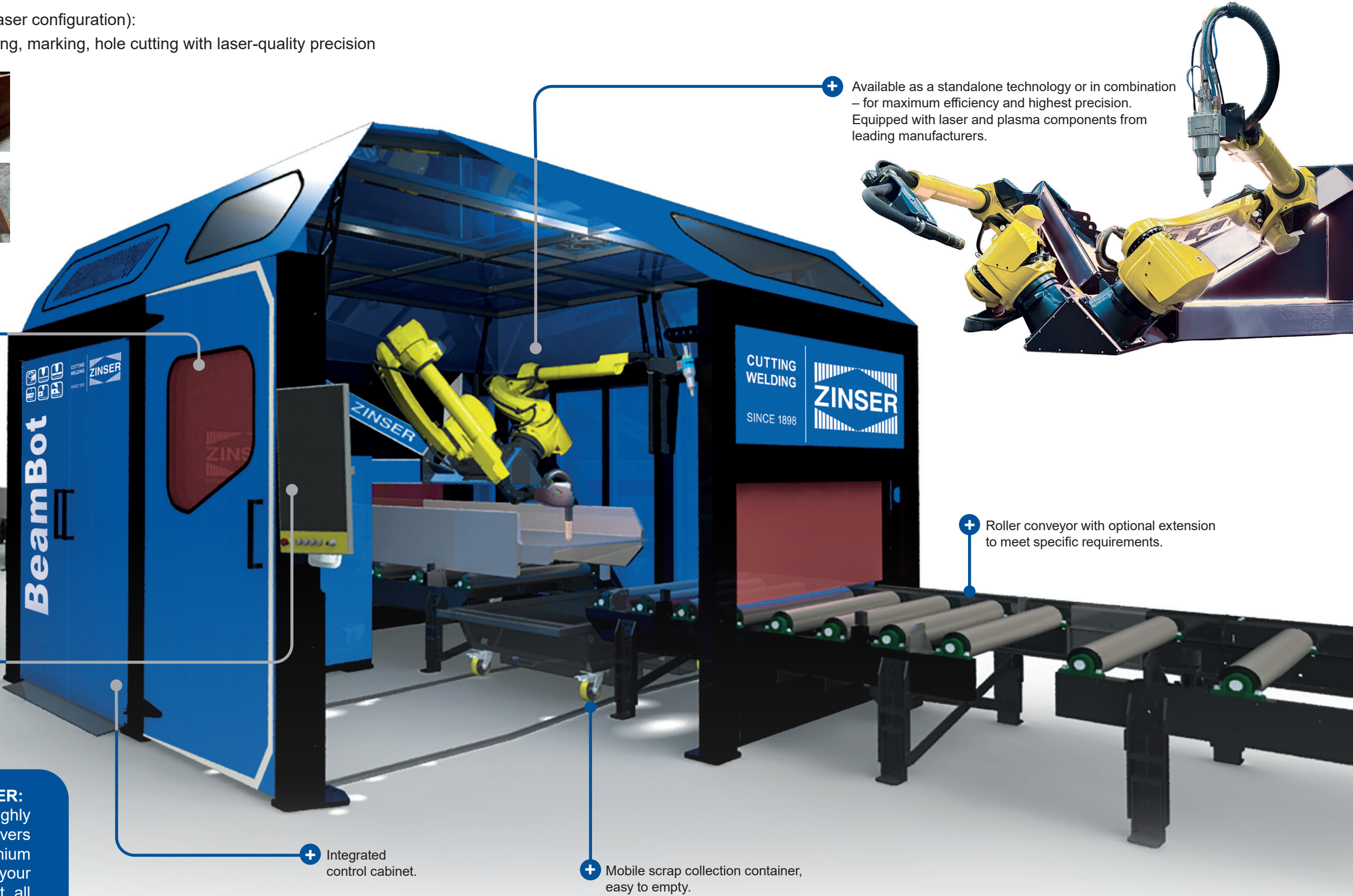


+ Transparent process monitoring through safety glass windows, intelligent sensors, scanners, and internal video surveillance.

+ Optimized process workflows thanks to automated conveyor technology for material handling.

+ Modern CNC control, remote-capable, with remote maintenance and online support from the ZINSER headquarters in Germany.

Reliable Support from ZINSER:
ZINSER's experienced and highly trained technician team delivers professional support and premium service worldwide – ensuring your system operates smoothly at all times.



More than a cutting system. A new dimension.

ZINSER BeamBot – faster, smarter, and more precise – engineered to meet the highest demands in steel construction, plant engineering, and metal processing.

The ZINSER BeamBot ensures maximum cutting precision with minimal post-processing. State-of-the-art technology and intelligent automation deliver outstanding cut quality and significantly boost production efficiency.

Thanks to precise control and optimized process workflows, components are cut cleanly and accurately – resulting in a substantial increase in production capacity. The combination of laser and plasma cutting technology provides maximum flexibility and reliability for consistent results in steel processing.



Technical data

	ZINSER BeamBot
Beam width:	100 – 1200 mm (custom widths available on request)
RHS/SHS (Rectangular/Square Hollow Sections):	50 x 50 mm up to 400 x 400 mm
Channel width (C- and U-channels):	75 - 380 mm
Angle (L-profiles):	25 x 25 mm up to 20 x 200 mm
Maximum weight:	455 kg/m



ZINSER BeamBot – The future of flexible beam and profile processing

The ZINSER BeamBot sets a new global benchmark: As the first cutting cell of its kind, it combines laser and plasma cutting technologies in a fully integrated robotic system – specifically designed for precise, automated, and versatile processing of steel profiles.

Depending on the application requirements, the configuration can be flexibly adapted – whether with both cutting methods or with laser or plasma technology alone. This ensures that the BeamBot is perfectly customized to meet the individual production requirements.

Automation for improved efficiency

The ZINSER BeamBot significantly reduces throughput times and minimizes the need for post-processing. Precise control and an integrated marking function for position and part identification optimize processing quality and process reliability.

Increased capacity & maximum versatility

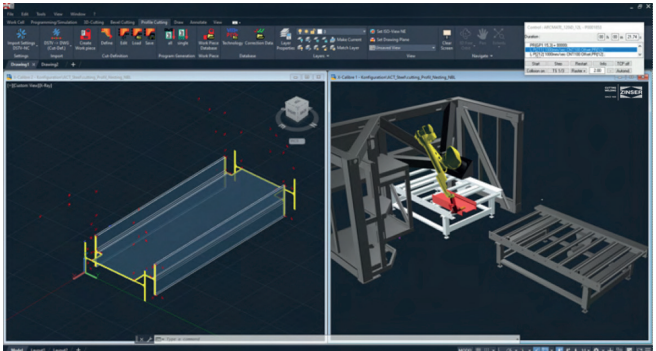
The ZINSER BeamBot processes steel profiles up to 1,200 mm width (custom widths available upon request). The loading and unloading system of the cutting cell is freely configurable in length. Thanks to integrated CAD/CAM software, fully automated four-sided processing, and a powerful extraction system, the machine offers maximum flexibility for a wide range of machining tasks – efficient, precise, and fully automated.

Custom-configurable version

The ZINSER BeamBot was specifically developed for beam and profile processing in steel construction. Automated material feed, discharge, and cross-conveyor systems can be flexibly adapted to your production requirements. Depending on your needs, the system is available with plasma cutting, laser cutting, or a combination of both technologies.

Nesting-Software

The intuitive user interface enables quick onboarding. Programs can be easily created from 3D CAD models or automatically via DSTV (NC) files. The ZINSER BeamBot handles process control.



Safe and compliant

The ZINSER BeamBot complies with international ISO safety standards. Safety interlocks and sensors in the work area ensure maximum protection and adherence to all regulations.

