Jonas & Redmann
The Automation Company

LASER STRIPPING TOOL

Jonas & Redmann offers a highly developed system solution for the process-proof ablation of insulation layers on magnet wires. The consistently modular system combines well-proofen laser and automation modules with customer-specific requirements. The precise and flexible Laser Stripping Tool (LST) makes the process safe, reproducible and economical.

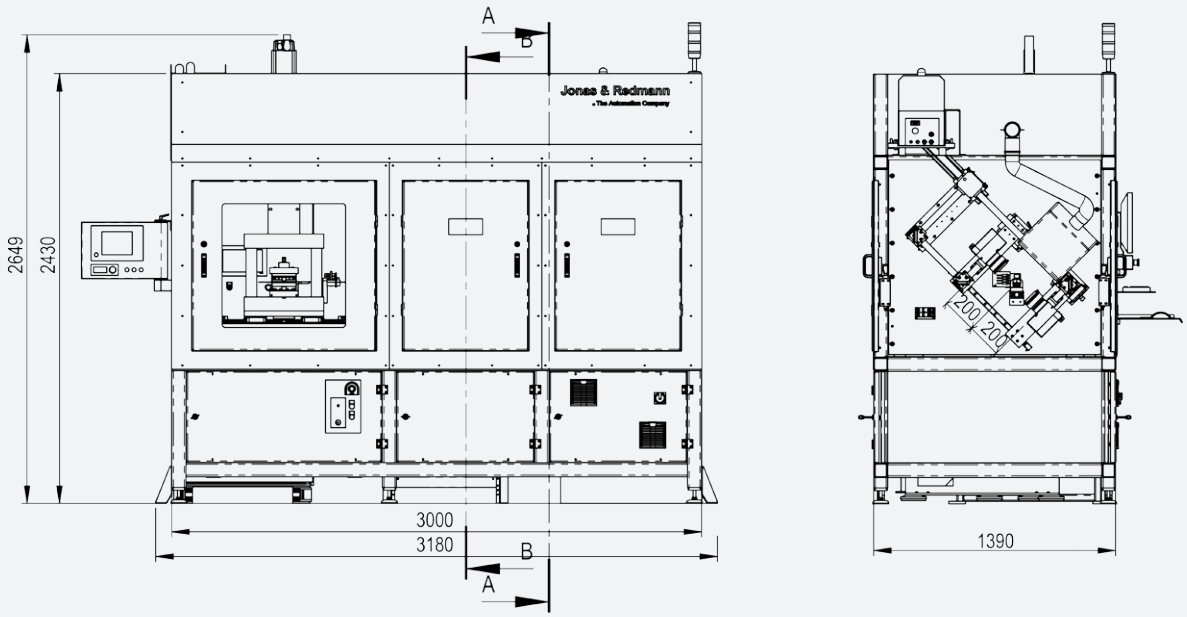
The wire to be processed is automatically unwound from a coil, fixed in a feed unit and transported to a CO_2 laser station for further processing. The CO_2 laser station performs the highly precise stripping of defined areas of the magnet wire. The optionally following fiber laser station serves the post-cleaning of the surface. Finally, the wire is punched to the defined length.

The Jonas & Redmann LST is by far the most superior solution among the current methods for stripping of magnet wire. The innovative system is the first to implement a two-stage laser processing. The unique configuration guarantees an absolutely residual free removal of insulation layers without damaging the underlying copper material. Thus the LST serves the perfect preparation of magnet wire for further process steps - such as resistance soldering - in stator production. The machine can be used flexibly in product development and is equally suited for production at an industrial scale.

- High surface rates and large stripping areas (over 100 mm²)
- CO_2 laser with maximum energy efficiency (best-in-class)
- Integrated safety systems according to DIN EN ISO 60825-1 and DIN EN ISO 13849-1
- Standardized machine base with combined customer-specific modules enables type flexibility

Configuration

Dimensions (Laser Cell):	H 2649, B 3180, D 1390
Laser:	FEHA LASERTEC HYPERICO2 CO_2- Laser, optional fiber laser for residual free removal or customer specific
Control system:	integrated control system: Siemens, Bosch, Beckhoff or customer specific
HMI:	Siemens, Beckhoff or customer specific
Material transport:	start-stop or on-the-fly
Wire type:	magnet wire length: up to 500 mm dimensions: up to 10x10 mm
Quality assurance system:	customer specific



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