T&K.A Tillmann & Schroyen GmbH & Co. KG

TUBE LASERS

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NEW OPPORTUNITIES
The tube laser machining system increases productivity, flexibility and efficiency by means of new tube handling in conjunction with new mechanical solutions.

WELD DETECTION
The laser is equipped with optical weld detection for correct machining settings.

IRREGULAR CROSS-SECTIONS AND EXPOSED PROFILES
Thanks to its effective and efficient machining of irregular cross-sections and exposed profiles, the laser is also suited to innovative applications.

STRONG PERFORMANCE
The key point of the laser is its high capacity for the entire diameter machining field. With the efficient combination of the new mechanical structure and new software, unique solutions are achievable.

ROUND TUBE	Min. diameter 12 mm - max. 220 mm
SQUARE PIPE	max. 200 × 200 mm
ROD LENGTH LOADING	8500 mm
TUBE WEIGHT	max. 35 kg/m
LENGTH OF THE UNLOADER	8500 mm
LASER SOURCE OUTPUT	3500 W
SETTINGS	Fully automatic
STANDARD MATERIALS	Steel, stainless steel, aluminium alloys

3D
With large tubes, three-dimensional machining is a crucial criterion for a system's capability. The laser has a 3D-head for angle cutting of the highest quality and greatest accuracy.

KEEPING THE INSIDE OF ROUND PARTS CLEAN
The laser has a lance device for extracting the cutting geometry inside the pipe.

LOADING
- Two automatic loading stations, front and back, both fitted with measuring sensors
- Three possible loading designs available (bundle loader, loading table for rods placed individually by hand, step loader). Each loader can be connected with any pipe loading station

UNLOADING
- Four possible unloading positions for sorting the various, cut parts
- Parts are supported by universal mounts during each step of production - for very high precision machining even of long, heavy and/or complex parts

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