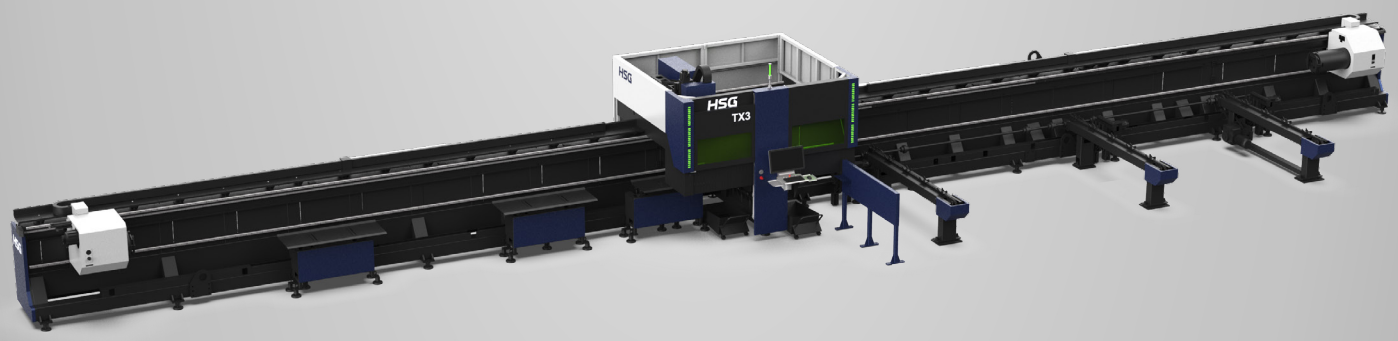
LASER MACHINES

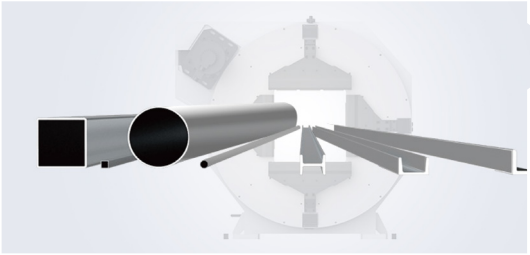
# TX3R SERIES

## Heavy Duty Tube Laser Cutter

6000 - 20000W

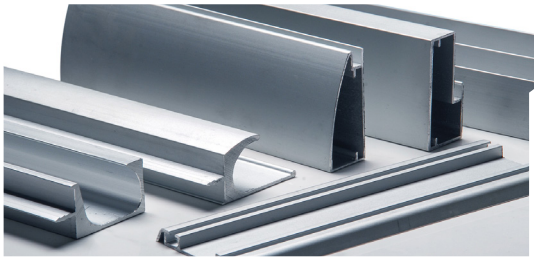


# FEATURES



## HSG Intelligent Chucks

With the HSG full-stroke chucks, tubes can be manufactured across the entire clamping range from 20mm to 360mm without the need for retooling

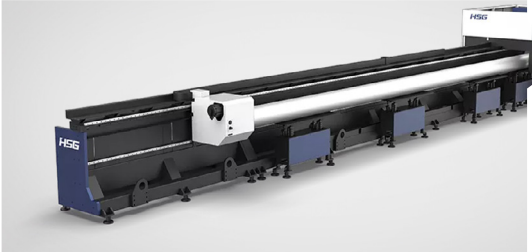


## Cut Open Profiles with Ease

The machine is equipped with specialised profile grippers, making it a breeze to cut steel profiles such as angle steel, channel steel and H steel.

## Automatic Loading and Unloading

The automatic loading and unloading of heavy tubes is both efficient and time-saving, significantly reducing production preparation time. It greatly enhances operational safety, cuts labor requirements, and lowers production costs.




## Heavy-duty Tube Following Support System

Ensures precise cutting by providing stable support for long or heavy tubes throughout the cutting process. Designed to move in sync with the tube, it prevents sagging, vibration, and bending, maintaining accuracy and protecting material integrity.

## Intelligent Bus Operating System

The system offers a range of auxiliary functions to meet diverse processing needs. Additionally, the T Series features professional nesting software, facilitating efficient management of production progress and accurate price calculations.

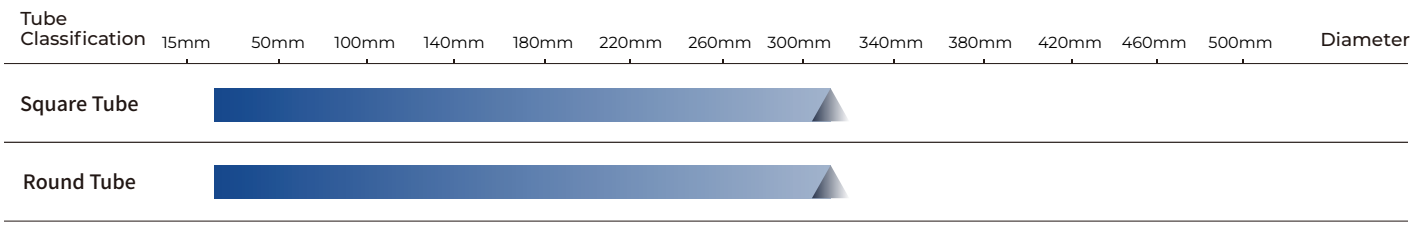
## Bevel Cutting Head

0-45° bevel cutting, including various types like V, X, and Y bevels. This flexibility makes it ideal for creating angled cuts with precision.

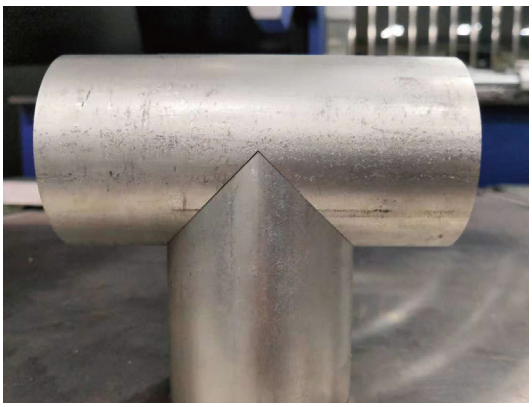
# SPECIFICATIONS

| Parameters | TX3R | | | | |
|---|---|---|---|---|---|
| Power (kW) | 6 - 20 | | | | |
| Chuck Speed (RPM) | 60 r/min | | | | |
| Max. Linkage Speed | 80 m/min | | | | |
| Max. Linkage Acceleration | 0.8G | | | | |
| X/Y Axis Positioning Accuracy | ±0.05 mm/m | | | | |
| X/Y Axis Repositioning Accuracy | ±0.03 mm | | | | |
| X Axis Travel | ≥12500 mm | | | | |
| Y Axis Travel | ≥360 mm | | | | |
| Z Axis Travel | ≥360 mm | | | | |
| Tube Cutting Capacity (mm) | Round: | 20 - 360 | Open Steel Profile | Angle Steel: | 50 x 50 - ≤ 250 x 250 |
| | | | | Channel Steel: | 50 x 37 - ≤ 360 x 100 |
| | Square: | 20x20 - 360x360 | | L Beam: | 50 x 37 - ≤ 360 x 140 |
| | Rectangle: | 20 - 360 | | H Beam: | 100 x 100 - ≤ 300 x 300 |
| Max. Manual Loading Cutting Length | 13000 mm | | | | |
| Tube Length Range | 1000 - 12000 mm | | | | |
| Machine Weight (kg) | Without Loading Rack: | 18700 | With Loading Rack: | 20000 | |
| Loading Capacity (kg) | Multi-tube: | 3000 | Single: | 20000 (≤100 kg/m) | |
| Total Power / Current | 51kW / 103A (6000w)<br>77kW / 153A (12000w)<br>104kW / 207A (20000w) | | | | |
| Dimensions (LxWxH) | 29900 x 3300 x 3450 | | | | |
| Dimensions with Loader (LxWxH) | 29900 x 4400 x 3450 | | | | |

## Laser Power



# CUTTING SAMPLES



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