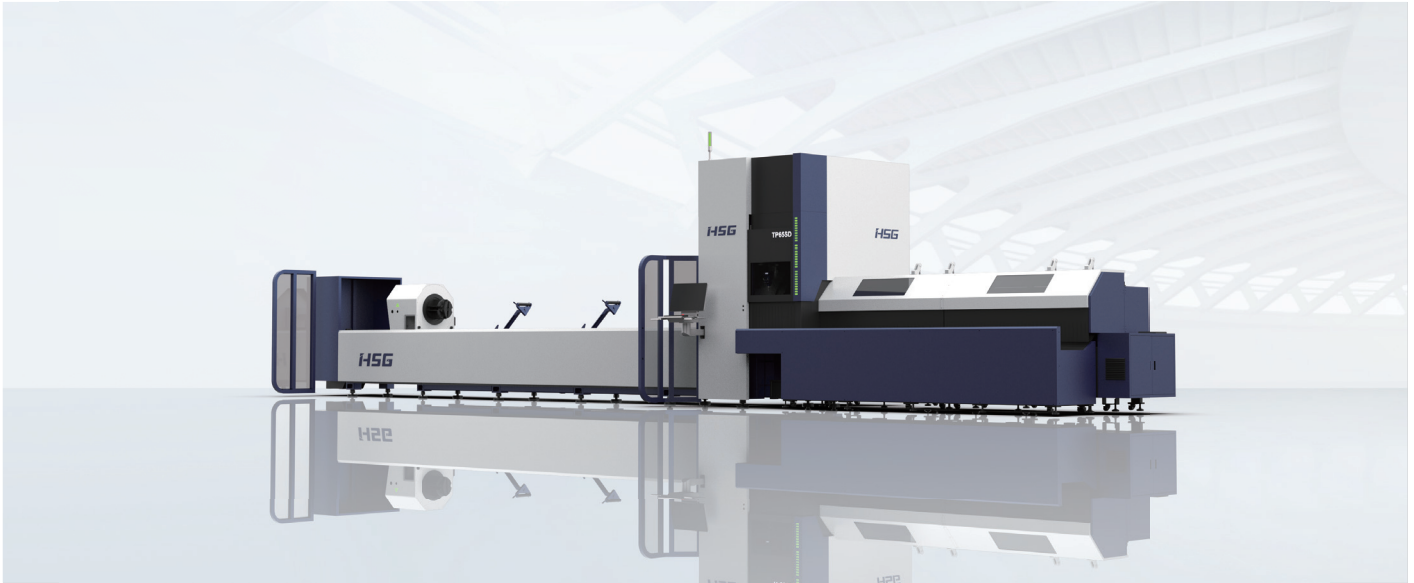


# TPSD

Flagship Fiber Laser Cutting Machine for Composite Tubes with Drilling and Tapping Functions

## CUT, DRILL, TAP-THE ALL-IN-ONE TUBE PROCESSING SOLUTION



Laser Power

**3-6kW**

Cutting Range of Tube

**12-273mm**

Max. Linkage Speed

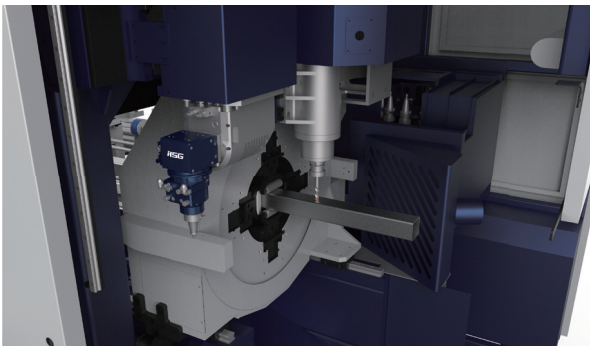
**120m/min**

Max. Linkage Acceleration

**1.2G**

### PRODUCT OVERVIEW

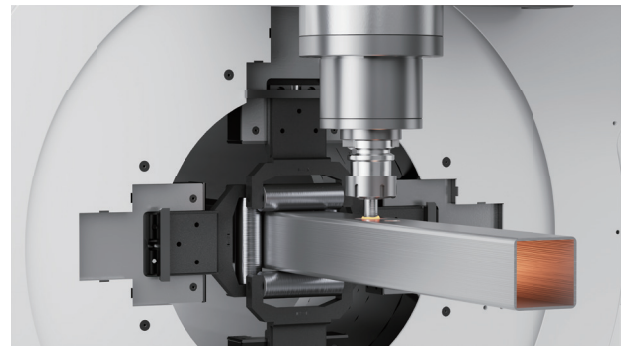
#### The All-in-One Tube Processing Solution



Introducing the TPSD, which combines cutting, tapping, and drilling in a compact, efficient machine. Designed for industries such as fitness equipment, furniture, and job shop manufacturing, it accommodates tube sizes ranging from 12 to 273mm in diameter.

### TYPICAL PROCESSING

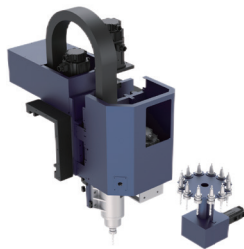
#### HSG Multi-aperture Thermal Drilling-tapping Technology



The TPSD series seamlessly combines cutting and drilling processes, significantly accelerating production cycles. With laser-powered thermal drilling, it ensures unmatched precision and superior product quality. By integrating functions, it reduces the need for multiple machines, cutting costs and optimizing efficiency.

**SAVE YOUR TIME****HSG SPEED+Rapid Cutting Technology**

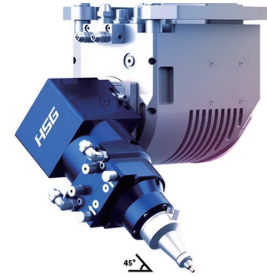
Revolutionize tube processing with unparalleled speed and precision. HSG SPEED+ enhances efficiency for dense and intricate patterns, delivering exceptional performance in high-speed cutting. This advanced technology ensures optimal throughput and accuracy, meeting the demands of even the most complex applications.

**IMPROVE THE PRECISION****Multiple Apertures Hot Melting - Drilling-Tapping Technique**

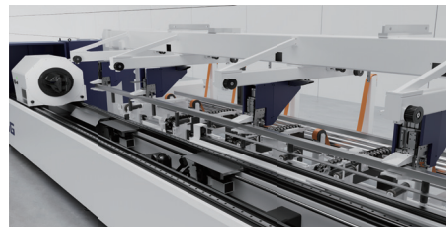
Self-Equipped with tool database to achieve automatic knife shifting.

**CARE YOUR SAFETY****Additional Safety Protection (Optional)**

- > Equipped with a top cover for enclosed processing to reduce smoke and maintain a clean working environment.
- > The safety light curtain will prevent any possible collision with human body and protect both workers and the machine well.

**SAVE YOUR COST****HSG LA4 Five-axis Tube Beveling Head**

- > Achieve up to  $\pm 45^\circ$  bevel laser tube cutting with integrated drilling and tapping capabilities. Enhances Your Welding And Assembly Quality
- > Modular design: simplifies maintenance, reducing downtime and costs.
- > Optimized laser resonator: utilizes HSG Japan's exclusive optical module design to maximize laser efficiency.
- > Superior thick sheet cutting: unique optical path arrangement significantly reduces material quality requirements, ensuring high-quality cuts.

**SAVE YOUR TIME****Efficient, Automatic Loading & Unloading for Precise Processing (Optional)**

Supports automatic feeding for round tubes, square tubes, and steel sections, with a single tube loading time as fast as 20 seconds. Automatically unloads tubes after cutting, significantly enhancing processing efficiency.

**TECHNICAL PARAMETERS**

| Model  | TP65SD   |
|--|--|
| Power  | 3-6KW  |
| Cutting Capacity of Round Tube / Square Tube | $\Phi 12\text{mm}-273\text{mm}$ / $\square 20 \times 20 - \square 200 \times 200\text{mm}$ |
| Weight of Single Tube                        | 200kg  |
| Max. Linkage Speed                           | 120m/min   |
| Max. Linkage Acceleration                    | 1.2G   |
| The Range of Tube Material                   | 1000-6500mm  |

\*Information and images are for reference only. Final specifications and terms are subject to the contract and may change without notice.