

Specifications		SLT-152-FIBER	SLT-152-FIBER-3D	SLT-180-FIBER-FA
Servo Motors		5 axis	6 axis	5 axis
Laser Source (Fiber Laser)		1kW (Optional : 2kW)	2kW	700W (Optional : 1kW)
Angular Range of Bevel Cutting		N/A	-45° ~ +45°	N/A
Cutting Capacity	Round Tube	Ø20 ~ Ø152(*)		Ø20 ~ Ø180(*)
	Rectangular Tube	Diagonal length of section ≤ 170mm		Diagonal length of section ≤ 180 mm
	Square Tube	20mm x 20mm ~ 120mm x 120mm		20mm x 20mm ~ 125mm x 125mm
	Oval Tube	Diagonal length of section ≤ 170mm		Diagonal length of section ≤ 180 mm
	Profiles	By request		By request
Tube Thickness Cutting Capacity (Standard Type)	Mild Steel	6mm		4mm
	Stainless Steel	4mm		2.5mm
	Aluminum Alloy	3mm		N/A
Loading System (Standard Type)	Material Length	3500mm ~ 6500mm (Optional : 8500mm & 12000mm)		200mm ~ 6500mm
	Max. Weight of Bundle Tubes	4000Kg		N/A
Unloading System (Standard Type)	Max. Weight of Working Piece	120Kg		40Kg (Optional : 120Kg)
	Max. Length of Working Piece	3M (Optional : 4.5M & 6M)		1M (Optional : 3M)
Gross Weight (Standard Type)	Loading System	5100Kg		N/A
	Feeding System	4850Kg		4850Kg
	Laser Cutting System	2300Kg		2300Kg
	Unloading System	1600Kg		650Kg
Utilities Requirement (Standard Type)	Floor Space	1540cm x 610cm	1570cm x 610cm	1350cm x 610cm

Due to continuous improvements and designs : The manufacturer reserves the right to modify or make any change of all models without notice.

(*) Options :

- 1.Smaller diameter or sectional length of tube: 15 mm for minimum
- 2.Seam detection
- 3.Mandrel for spatter extraction
- 4.Feeding & unloading length detection
- 5Automatic cutting path planning
- 6Automatic unloading system with conveyor
- 7.Scrap conveyor
- 8.Max. length of raw material: 8500mm (12000mm by request)
- 9.SMS system
- 10.For work piece longer than 1M or heavier than 40Kg, 3m / 4.5m unloading system is available. Additional supporting system can also be installed by customer.

Standards in compliance:

- CE standards.
- Part 1040.10 of the Code of Federal Regulation 21 (21 CFR Part 1040.10) of the United States, except those specified in Laser Notice No. 50 which is issued by the CDRH on June 24, 2007.
- IEC 60825-1: 2014 (Safety of laser products - Part 1: Equipment classification and requirements.)



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2D/3D
FIBER
Laser Cutting Line
For Tubes and Profiles

Complete Solution for Tube and Pipe



2D and 3D Laser Series

SLT-152-FIBER SLT-152-FIBER-3D

SOCO's introduces its newest generation in tubes and profiles processing technology – the Fiber Laser Cutting System "SLT-152-FIBER". With over 30 years of experience in design and manufacturing experience in tube cutting technology, SOCO is specialized in solutions for the Tube and Pipe industries, and the new Fiber Laser Cutting Line is the ultimate solution for joining multiple machining processes in one system for maximum flexibility, automation and performance.



Suitable for:

- Round Tube
- Square Tube
- Rectangular Tube
- Oval Tubes
- L-shaped profiles
- C-shaped profiles
- Mild Steel, Stainless Steel and Aluminum materials

2D Samples



3D Samples



SLT-152-FIBER Automation Working Processes:

1. Automatic Tube Bundle Loading
2. Automatic Material Alignment
3. Automatic Feeding and Rotation
4. Fiber Laser Cutting
5. Unloading



Automatic Bundle Loading Magazine



Automatic Material Measuring

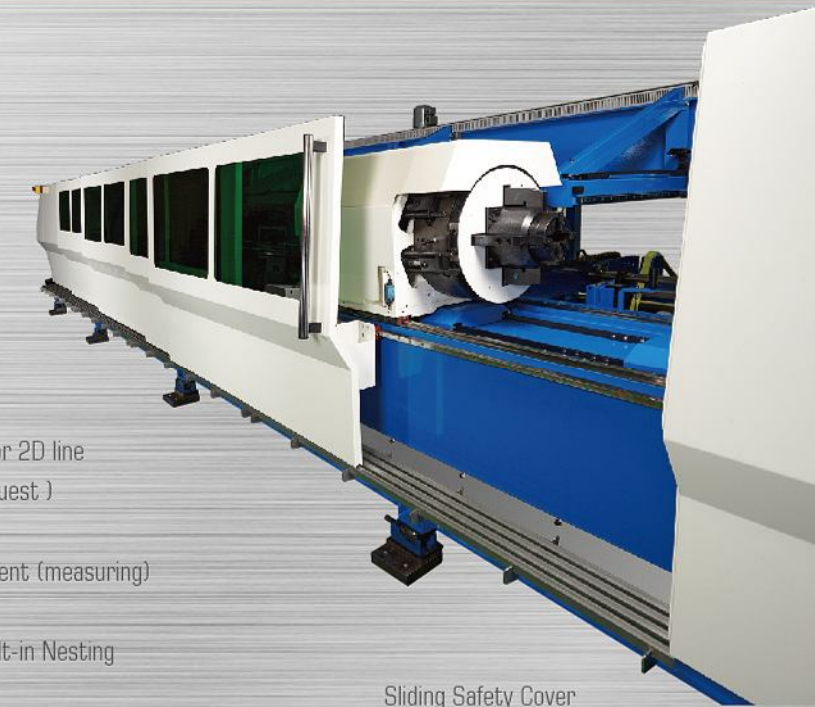


Automatic Feeding and Rotation

SLT-152-FIBER Standard Features :

- Typical Laser Processes :
 1. Straight & Angle Cutting
 2. Slotting
 3. Marking
 4. Notching
 5. Hole Making
- Capacity up to O.D. 152 mm
- 1.0 kW Laser Source , standard for 2D line
- 2.0 kW Laser Source , standard for 3D line , optional for 2D line
- Cutting Lengths up to 3000mm (longer lengths by request)
- Max. Wall thickness up to 6.0mm (Mild Steel)
- Automatic Bundle Loading System with Material Alignment (measuring)
- Multi-Axis CNC Controls with Touch Screen Interface
- SOCO CAD-CAM system for Tubes and Profiles with built-in Nesting
- SOCO i2 (Intelligent interface) 3D operation software
- Cutting for round, square, rectangle and various profile shapes
- Enclosed Workstation for maximum safety
- Automatic Distance Control
- Laser Resonator Cooling and Fume extraction systems
- Scanning & Measuring of material before cutting
- Compensation after measuring of material

Options : Please refer to specifications



Sliding Safety Cover

FA Laser Series SLT-180-FIBER-FA

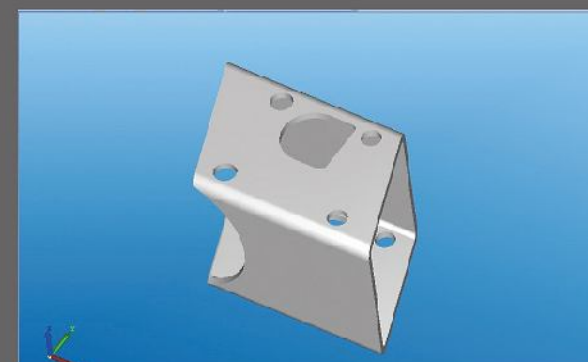
- Automatic cutting, manual loading
- Cutting capacity up to O.D. 180mm x 4t (Mild Steel)(Standard)
- Equipped with 700W Laser Source (Standard), 1kW (Optional)
- Cutting Lengths up to 1000mm (longer lengths by request)
- SOCO i2 (Intelligent interface) 3D operation software



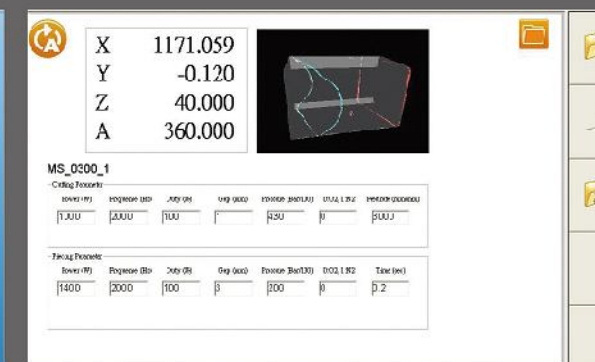
Cutting for round, square, rectangle and various profile shapes



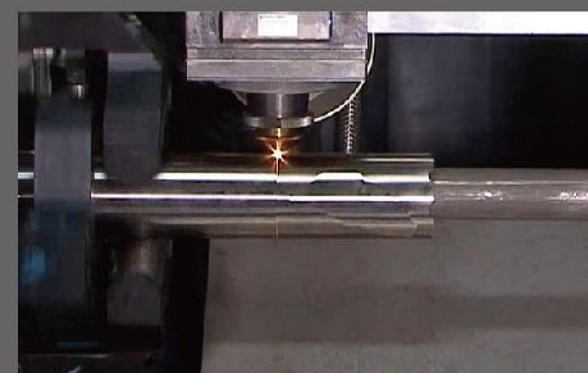
Advanced Technology



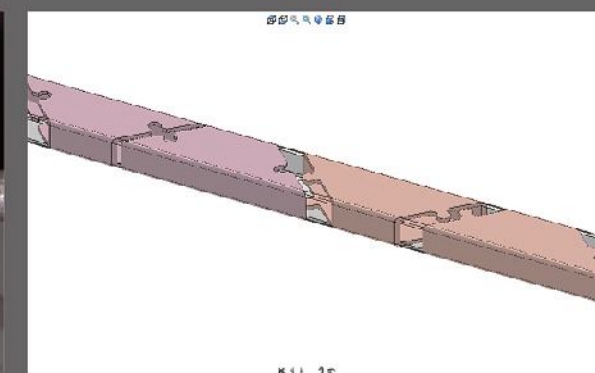
SOCO CAD-CAM system



SOCO 3D Operation Software



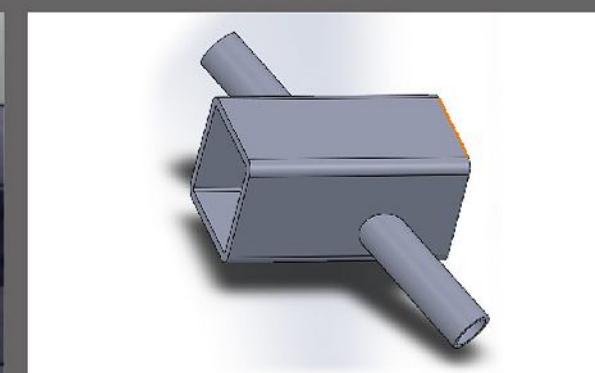
Mandrel for spatter extraction(Optional)



Automatic nesting for material usage optimization



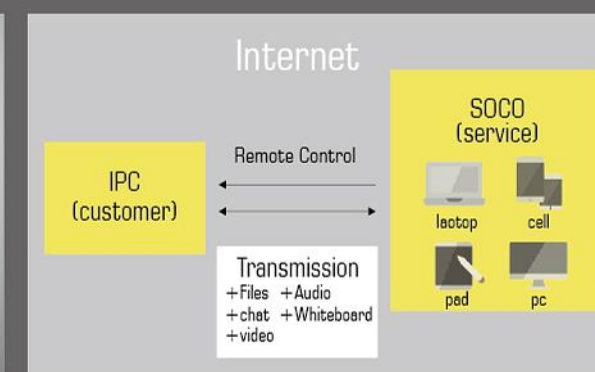
Library for various profiles and tube shapes



Built-in library for parts design and assembly processes



Seam Detector Tubes and Profiles (Optional)



SOCO IRMS (Internet Remote Monitoring System)