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Innovative Laser Cutting Technology





SLTL Group, presents the Infinity series. The Infinity F1 is a powerful, high productivity laser cutting system with IPG fiber laser powers from 500 watts to 10kW. The Infinity series modular design allows for different configurations to meet whatever demands you may have for now and into the future.

The Infinity F1 comes complete with all the features to increase factory productivity and maximize profits. It can be configured to perform 2D sheet laser cutting and tube cutting all on the same machine.

At the heart of the Infinity F1 is a high speed CNC controller with optimized nesting software. Powerful servo drives coupled with dual-helical rack & pinion gears deliver speeds up to 4,000 in/min with 2G's of acceleration.

Standard productivity features include:

- Dual Pallet Shuttle Changer
- Auto-Focusing Lens
- Auto Sheet Height Sensing
- Auto Sheet Orientation
- Ball Support Sheet Loading

Standard safety features include:

- Full Laser Safety Enclosure
- Filtered Fume Extractor
- Pallet Changer Safety Light Curtains

Specification

Specifications		Model					
		3015		4020		6520	
Max. Working Range	X Axis	1550mm	61in	2100mm	82.6in	2100mm	82.6in
	Y Axis	3100mm	122in	4100mm	161.4in	6600mm	259.8in
	Z Axis	300mm		11.8in			
Max. Work Piece Weight		900kg	1984lb	1650kg	3637lb	2650kg	5842lb
Positioning Accuracy		±0.05mm			±0.002in		
Repeatability		±0.02mm			±0.0008in		
Max. Feed Rate		100m/min (1666.67mm/s)			328ft/min (65.6in/s)		
Max. Acceleration		2g					
3015 Tube Cutting Option							
Specifications		Model					
		3 Meter			6 Meter		
Max. Working Range	X Axis	2200mm			86.6in		
	Y Axis	3100mm			122in		
	Z Axis	300mm			11.8in		
Max. Pipe Size	Round	25mm - 180mm			0.98in - 7.09in		
	Square	25mm - 150mm			0.98in - 5.91in		
	Rect.	25mm - 150mm			0.98in - 5.91in		
Max. Job Weight		70kg		154.32lb	140kg		308.65lb
Max. Pipe Cutting Length		2500mm		98.43in	5500mm		216.54in
Minimum Pipe Thickness		1.2mm			0.047in		
4 Jaw Feeding Chuck	Size	200mm			7.87in		
	Operation	Manual/Auto					

Thickness & Power Consumption

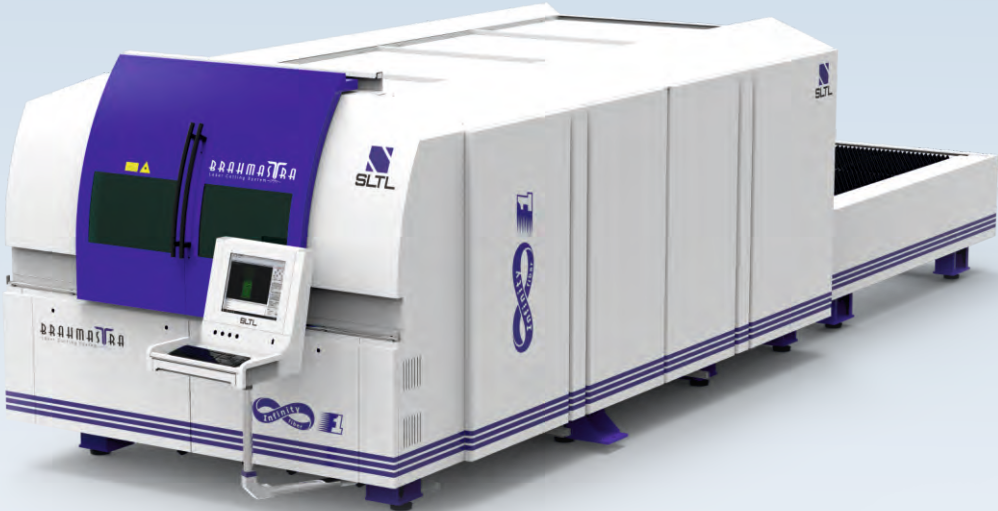
Material	Laser Power											
	2 kW		3 kW		4 kW		6 kW		8 kW		10 kW	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Mild Steel	0.63	16	0.787	20	1	20	1	25	1	25	1	25
Stainless Steel O ₂	0.394	10	0.394	10	0.394	10	0.394	10	0.394	10	0.394	10
Stainless Steel N ₂	0.238	6	0.394	10	0.394	10	0.63	16	0.787	20	1	25
Aluminum	0.197	5	0.315	8	0.394	10	0.63	10	0.787	20	1	25
Brass	0.197	5	0.236	6	0.315	8	0.472	12	0.63	16	0.63	16
Copper	0.118	3	0.197	5	0.236	6	0.315	8	0.394	10	0.472	12
Power Consumption***	17 kW (22A)		20 kW (25A)		24 kW (30A)		32 kW (41A)		40 kW (51A)		48 kW (61A)	

* The quality of the cut depends upon the attributes of the metal, its surface properties and the conditions in which the cutting operation is done. Metals with high thickness tend to have striations at the lower edges.

** Not advisable to process

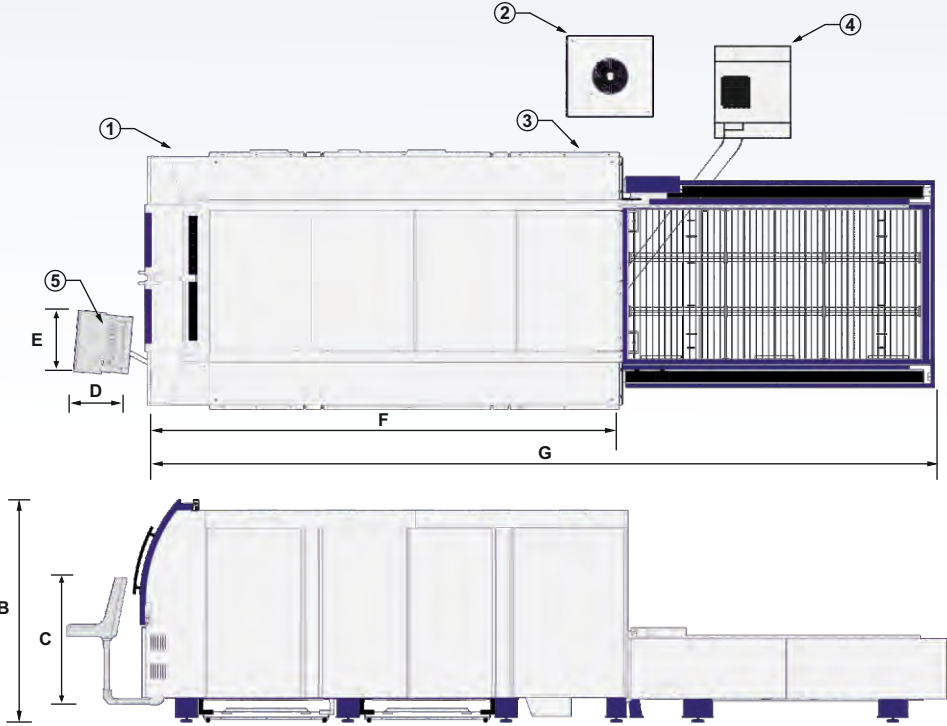
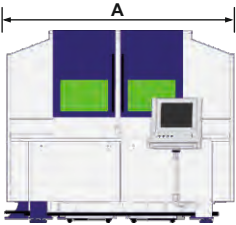
*** The approximate power consumption indicated in the table has been measured on the machine's peak performance. It includes the connected load of laser source, controller, fume extractor, and chiller at 480V

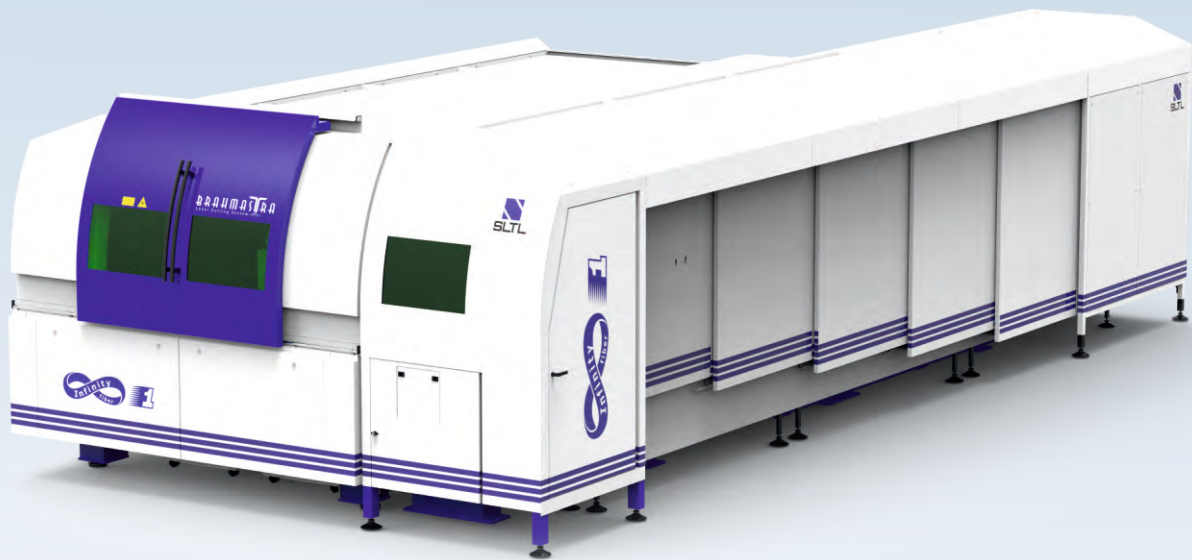
Multiple Configurations For Your Growing Needs



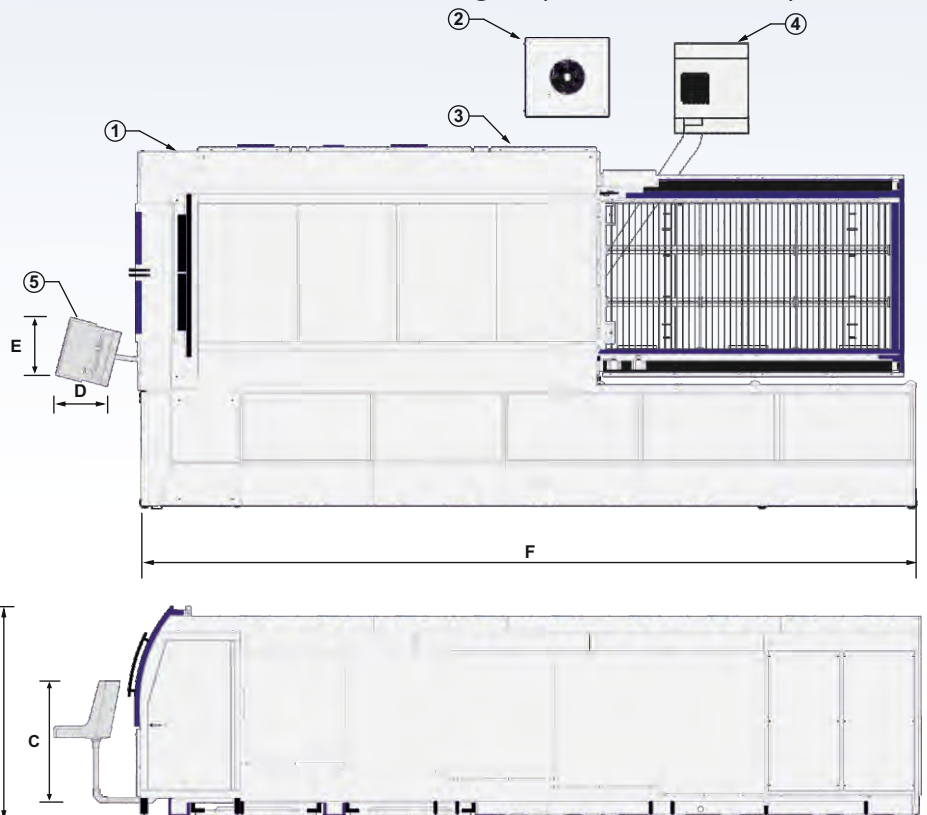
2D Cutting with Enclosure & Pallet Changer

Sr. No.	Dimension	Sr. No.	Part
A	108.27 IN	1	Machine
B	86.14 IN	2	Chiller
C	51.58 IN	3	Control Panel
D	22.84 IN	4	Fume Extractor
E	25.59 IN	5	Operating Panel
F	198.82 IN		
G	330.71 IN		

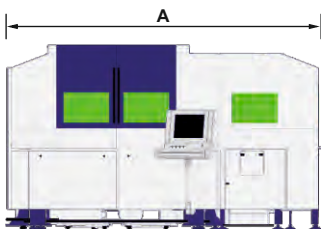




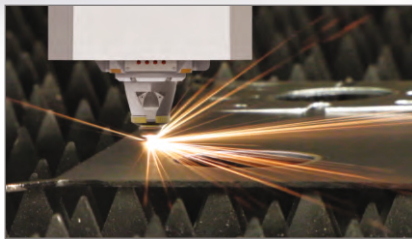
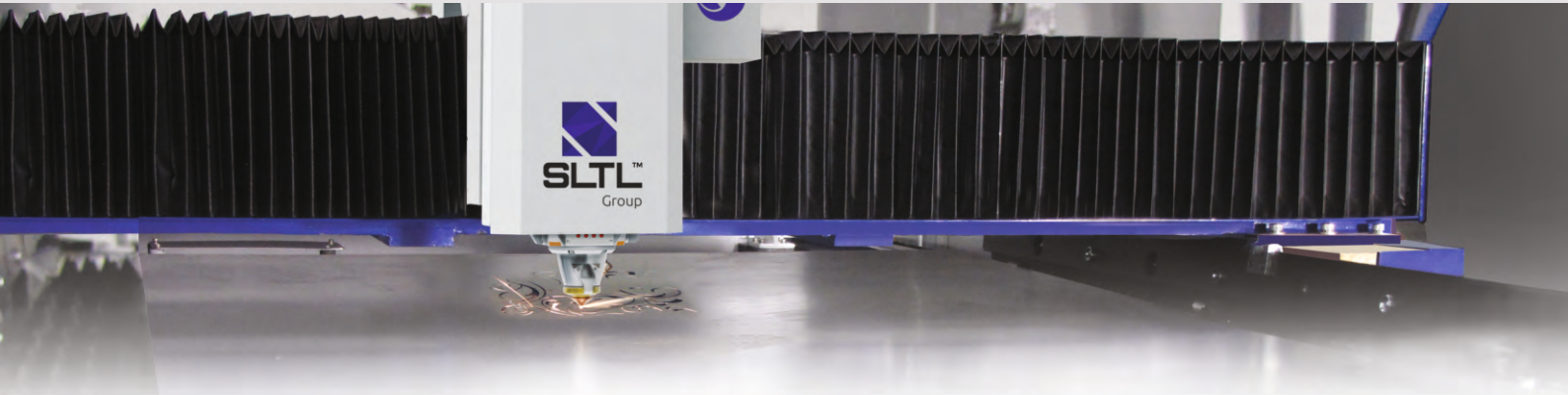
2D Cutting with 6m Tube Cutting & Pallet Changer (with enclosure)



Sr. No.	Dimension	Sr. No.	Part
A	153.54 IN	1	Machine
B	86.14 IN	2	Chiller
C	51.34 IN	3	Control Panel
D	22.76 IN	4	Fume Extractor
E	25.59 IN	5	Operating Panel
F	334.65 IN		



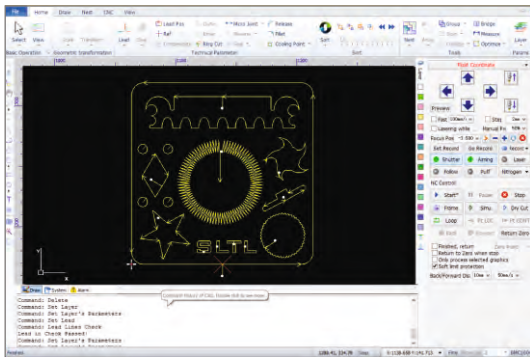
Features



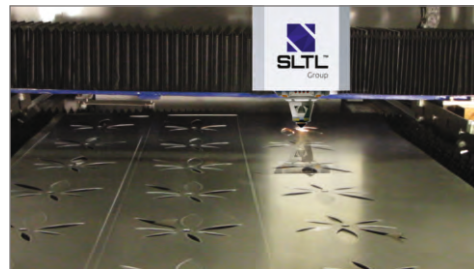
Auto Sheet Height Sensing (ASHS)
2 Phase Rack Design
Auto Sheet Alignment
Auto Lubrication



High End 64bit CNC Controller
20ns High Speed I/O
Intelligent Chiller Laser Handshake
Hermetically Sealed Cabinet (Ip55)
Climate Controlled Control Cabinet



Optimized Nesting Software with Reports
Bend Line and Part Number Marking
Spike Resistive Control System



Common Line Cut / Fly Cut
Single Lens Mechanism
Ball Support Sheet Loading
Dynamic Fume Extractor Mechanism
High Flexibility for Swift Material Change
Smart Gas Pressure System



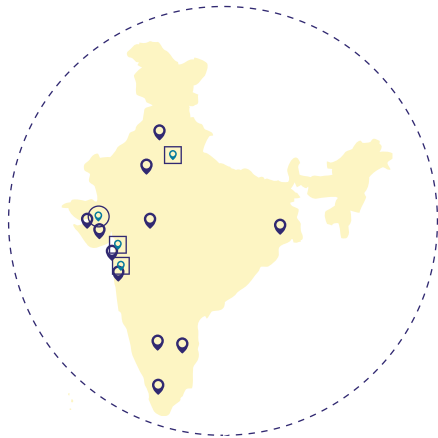
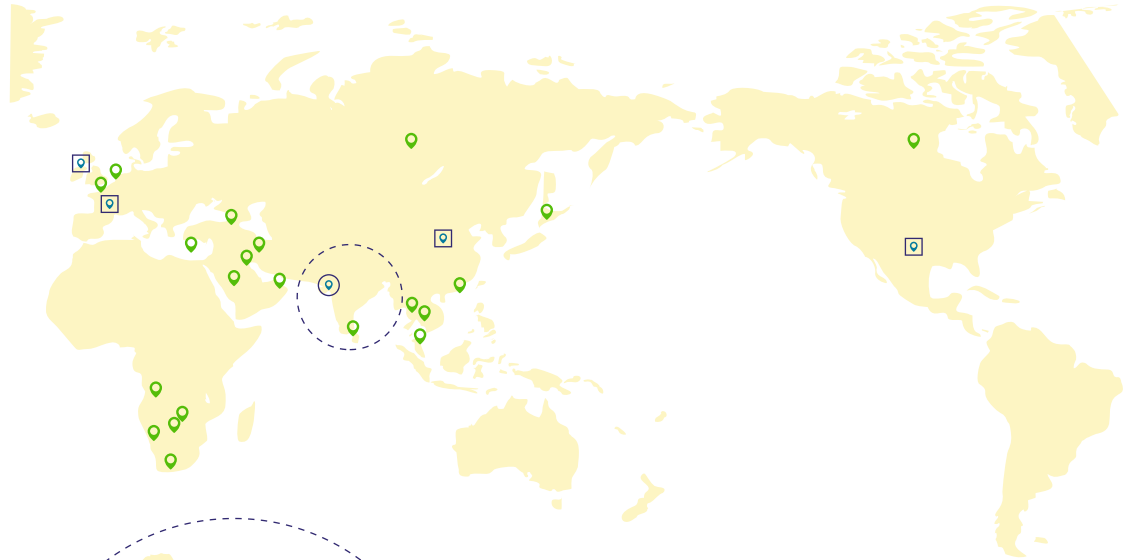
Tube Cutting (Optional)
Powerful Chuck for Robust Operations
Process Several Shapes of Tubes
Perfect Results on Light or Heavy Tubes
Ergonomic Design for Easy of Production

Included Accessories

- Pallet Changer
- Filtered Fume Extractor
- Auto Focus Cutting Head
- Light Curtain
- Chiller

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- Sri Lanka
- Switzerland
- Thailand
- UK
- USA
- Vietnam



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An ISO 9001:2015 certified company

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