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Innovative Laser Cutting Technology





SITI Group is presenting infinity series with modular design, the machine is designed considering modular concept in mind. The in Infinity F1 is a powerful high productive laser cutting machine. The power models comes in a range of 500 watts to 10kW. Infinity series comes in with eight different variables designed such as to meet your variable needs. With all new Infinity F1, it is possible to integrate other features with growing time and need. The machine could be upgraded with other systems and could perform laser cutting and tube cutting simultaneously.

It is a ready to go market machine with handy features to increase factory productivity and maximize profit. The machine comes is with cutting operations for 2D sheet cutting as standard and with tube cutting in other models. Infinity series has different models with single pallet and dual pallet. Few more fascinating features are Butter Cut, single lens mechanism, ball

support sheet loading, dynamic fume extractor mechanism, putting all these features together, the machine becomes a must buy for sheet metal cutting works. Its vigorous flexibility stands thunderbolt reflexes for swift material change. Hermitically sealed cabinet keeps safety at its best. The machine takes negligible booting time. High-end 64-bit CNC controller is equipped with user friendly operating interface.

With Infinity series it becomes easy to choose machine fitting current business requirements. As the machine is based on modular concept it could always be upgraded with growing needs and demands. It is a machine that grows with your business.

Specification

Specifications		Unit	Working Range 2D		
			3015	4020	6520
Maximum Working Range	X Axis	mm	1550	2100	2100
	Y Axis	mm	3100	4100	6600
	Z Axis	mm	300	300	300
Maximum Workpiece Weight		Kgs	900	1650	2650
Positioning Precision		mm	±0.05	±0.05	±0.05
Repeatability		mm	±0.02	±0.02	±0.02
Maximum Rapid	Simultaneous	m/min	100	100	100
Maximum Acceleration		m/s ²	20	20	20
Tube Cutting					
			3 Mtr	6 Mtr	
Maximum Working Range	Xx YxZ	mm	2000x3100x300		
Maximum Pipe Range	Round	mm	25 to 180		
	Square	mm	25 to 150		
	Rectangular	mm	25 to 150		
Maximum Job Weight		Kgs	70	140	
Maximum pipe Cutting Length		mm	2500	5500	
4 Jaw Chuck Dia. (Feeding Chuck)	Size	mm	200		
	Operation	---	Manual/ Auto		

Min pipe thickness 1.2 mm
Tube option available in 3015 model

Thickness & Power Consumption

Laser Power	1 kW	1.5 kW	2 kW	3 kW	4 kW	6 kW	8 kW	10 kW
Mild Steel	10 (3/8")	12 (1/2")	16 (5/8")	20 (3/4")	20 (3/4")	25 (1")	25(1")	25(1")
Stainless Steel O2	6 (1/4")	8 (5/16")	10 (3/18")	10 (3/8")	10 (3/8")	10 (3/8")	10 (3/8")	10 (3/8")*
Stainless Steel N2	3 (1/8")	4 (5/32")	5 (3/16")	8 (5/16")	10 (3/8")	16 (5/8")	20 (3/4")	25 (1")
Aluminium	0.05**	3 (1/8")	5 (3/16")	5 (3/16")	10 (3/8")	16 (5/8")	20 (3/4")	25(1")
Brass	0.08**	3 (1/8")	5 (3/16")	6 (7/32")	8 (5/16")	12 (1/2")	16 (5/8")	16 (5/8")
Copper	NA	2 (1/16")	3 (1/8")	5 (5/16")	6 (7/32")	8 (5/16")	10 (3/18")	12 (1/2")
Power Consumption	12 kW	12 kW	17 kW	20 kW	24 kW	32 kW	40 kW	48 kW

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

** Not advisable to process

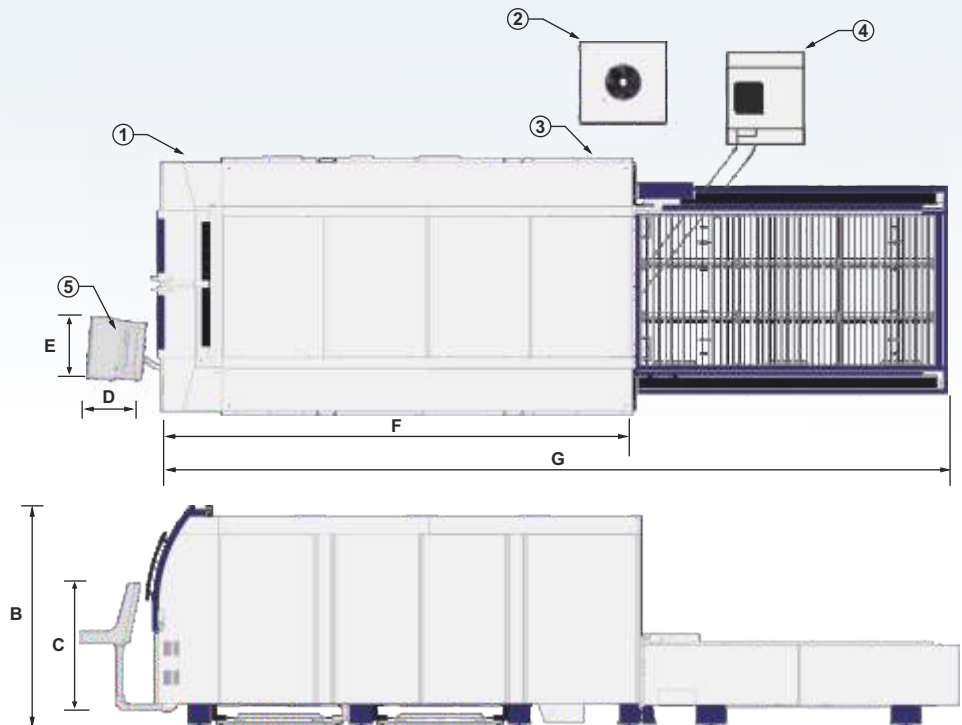
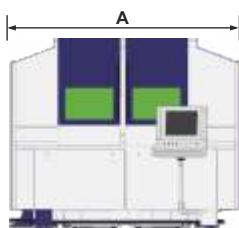
*** The power consumption indicated in the table is been measured on the machine's peak performance. It includes the connected load of laser source, controller, fume extractor and chiller.

Machine Upgrades with Your Growing Needs

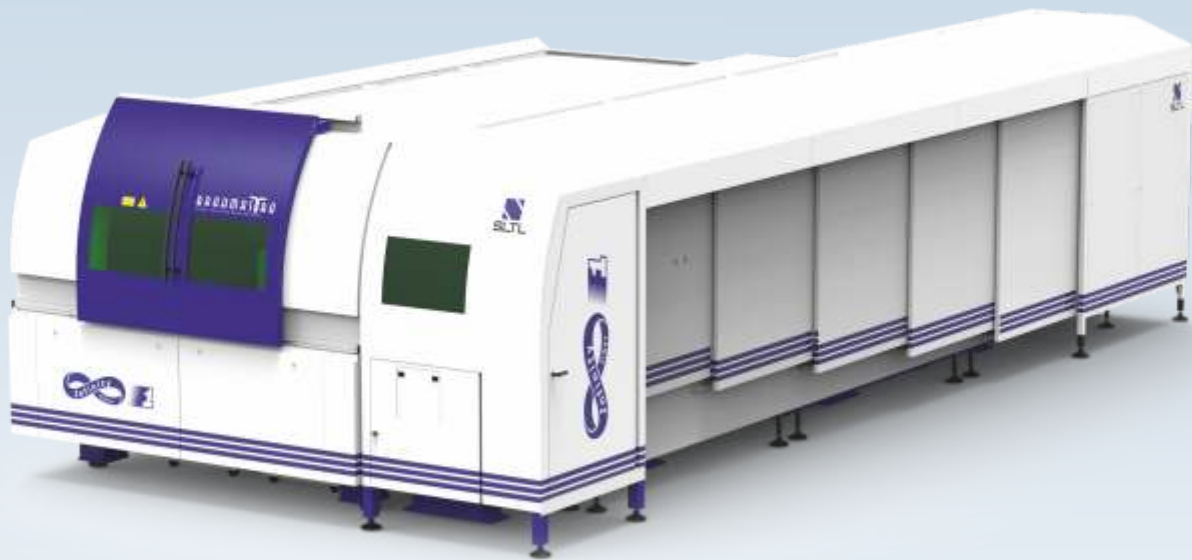


2D Cutting with enclosure
& Pallet changer

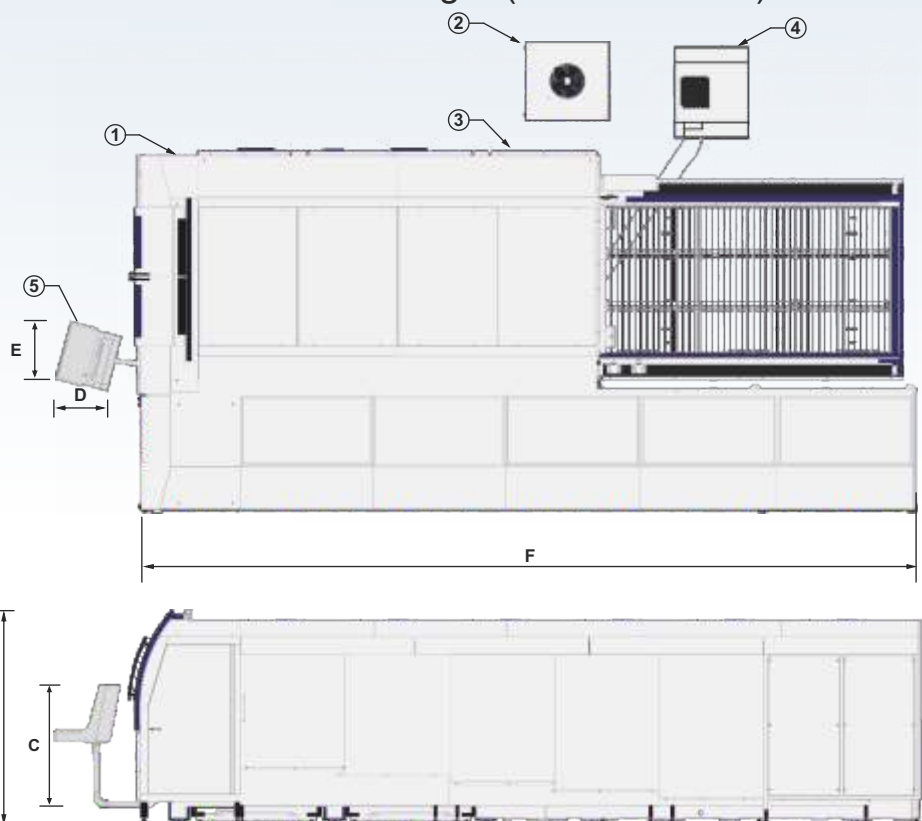
Sr. No.	Dimension	Sr. No.	Part
A	2750 MM	1	Machine
B	2200 MM	2	Chiller
C	1310 MM	3	Inbuilt Control Panel
D	580 MM	4	Fume Extractor
E	650 MM	5	Operating Panel
F	5050 MM		
G	8400 MM		



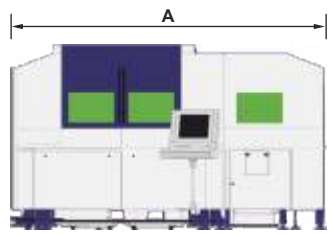
Machine Upgrades with Your Growing Needs



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



Sr. No.	Dimension	Sr. No.	Part
A	3900 MM	1	Machine
B	2200 MM	2	Chiller
C	1304 MM	3	Inbuilt Control Panel
D	578 MM	4	Fume Extractor
E	650 MM	5	Operating Panel
F	8500 MM		



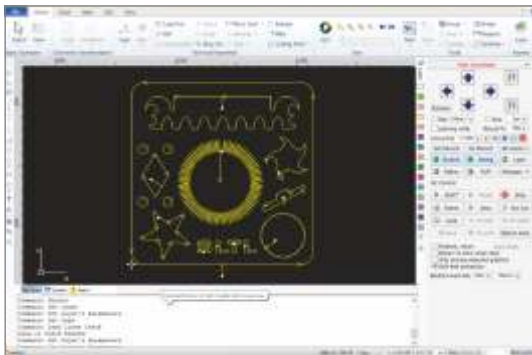
Features



Auto Sheet Height Sensing (ASHS)
2 Phase Rack design
3 Sides Accessibility
Auto Lubrication



High end 64bit CNC Controller
20ns High Speed I/O
Intelligent Chiller Laser Handshake
Hermitically Sealed Cabinet (Ip55)
Cabin Climatizer



Optimized nesting software
Bend line and part number marking
Spike resistive control system



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



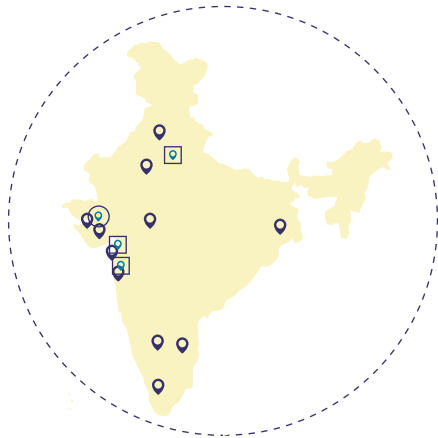
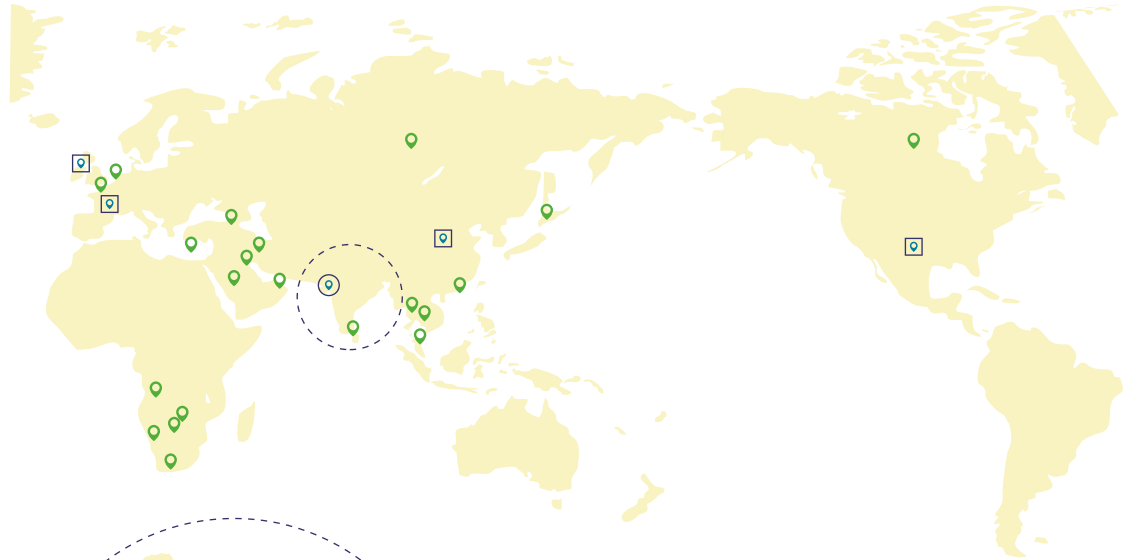
Tube Cutting
Powerful Chuck for Robust Operations
Process Several Shapes of Tubes
Perfect Results on Light or Heavy Tubes
Ergonomic Design for Easy of Production

Optional Accessories

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

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-  Installation Base
-  Head Office
-  Regional Office



An ISO 9001:2015 certified company

Sahajanand Laser Technology Ltd. (SLTL Group)

E-30, G.I.D.C., Electronic Estate, Sector - 26,
Gandhinagar - 382 028, Gujarat, India.
Tel : +91 79 2328 7461-68 Fax : +91 79 2328 7470
Cell : +91 99 2503 6495
Email : mkt@SLTL.com

www.SLTL.com



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Group

-  UK: SLT Ltd.
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