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Innovative Laser Cutting Technology





SLTL Group is presenting Infinity series with modular design. The machine is designed considering modular concept in mind. The Infinity F1 is a powerful high productivity laser cutting system. The power models come in a range of 500 watts to 3kW. 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 profits. The machine comes in 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 extends 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

SPECIFICATION		Unit	Working Range 2D		
			3015	4020	6520
Max. Working Range	X Axis	mm	1550	2100	2100
	Y Axis	mm	3100	4100	6600
	Z Axis	mm	300	300	300
Max. Workpiece Weight		Kgs	900	1650	2650
Positioning Precision		mm	±0.05	±0.05	±0.05
Repeatability		mm	±0.02	±0.02	±0.02
Max. Rapid	Simultaneous	m/min	100	100	100
Max. Acceleration		m/s ²	20	20	20
Tube Cutting					
			3mtr	6mtr	
Max. Working Range (Axis)	Xx YxZ	mm	2200x3100x300		
Maximum pipe size	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	0.5**	3 (1/8")	5 (3/16")	5 (3/16")	10 (3/8")	16 (5/8")	20(3/4")	25 (1")
Brass	0.8**	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 (3/8")	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 the cutting operation is done. Metals with high thickness tend to have striation at the lower edges.

** Not advisable to process.

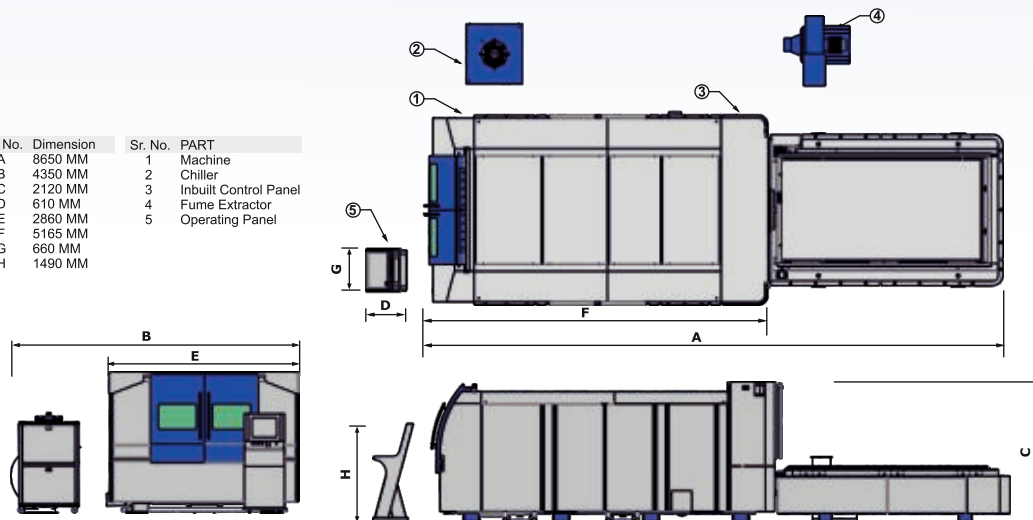
*** The power consumption indicated in the table is been measured on the machine's peak performance. It includes the connected load of laser source, controller, fume extractor and chiller.

Machine upgrades with your growing needs

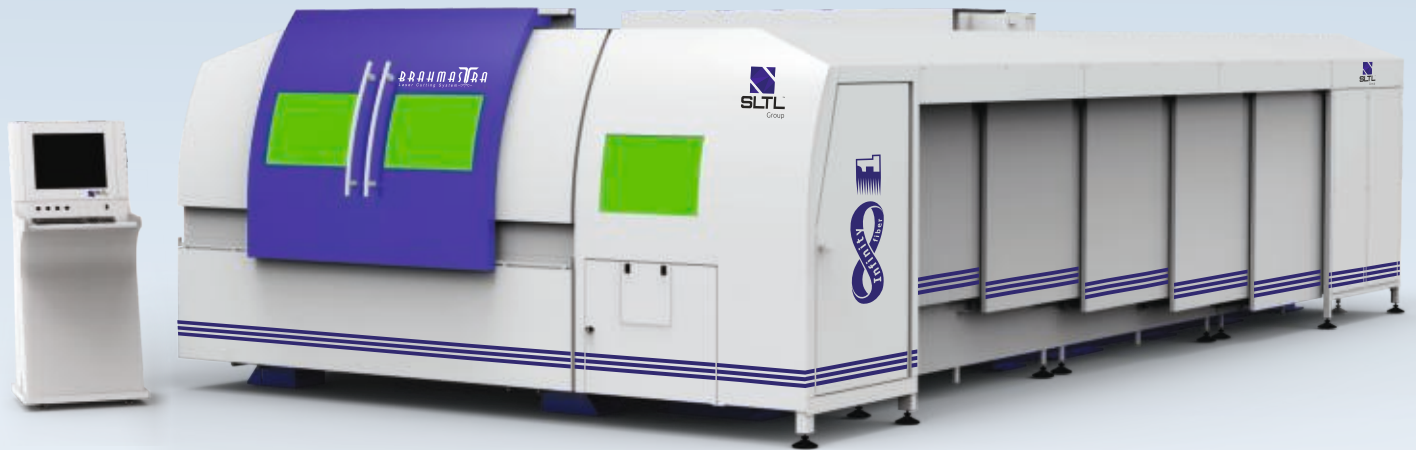


2D cutting with enclosure & pallet changer

Sr. No.	Dimension	Sr. No.	PART
A	8650 MM	1	Machine
B	4350 MM	2	Chiller
C	2120 MM	3	Inbuilt Control Panel
D	610 MM	4	Fume Extractor
E	2860 MM	5	Operating Panel
F	5165 MM		
G	660 MM		
H	1490 MM		



Machine upgrades with your growing needs



2D Cutting with 6 m tube cutting & pallet changer
(with enclosure)



2D Cutting with 6 m tube cutting



2D Cutting



2D Cutting with 3 m tube cutting & pallet changer



2D Cutting with pallet changer



2D Cutting with 3 m tube cutting

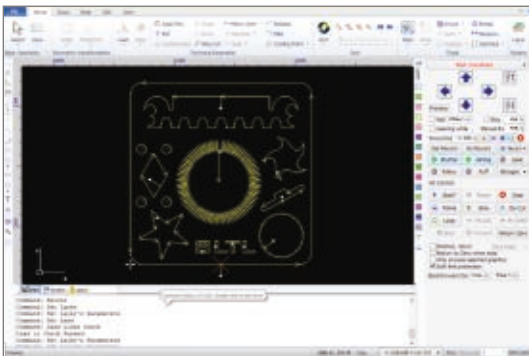
Features



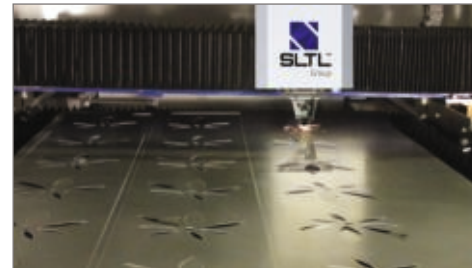
Auto Sheet Height Sensing (ASHS)
2 phase Rack design
3 Sides Accessibility
Auto Lubrication



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



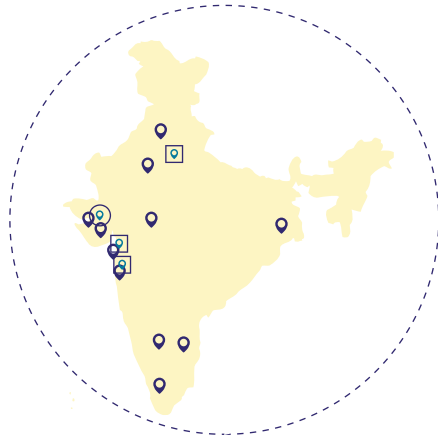
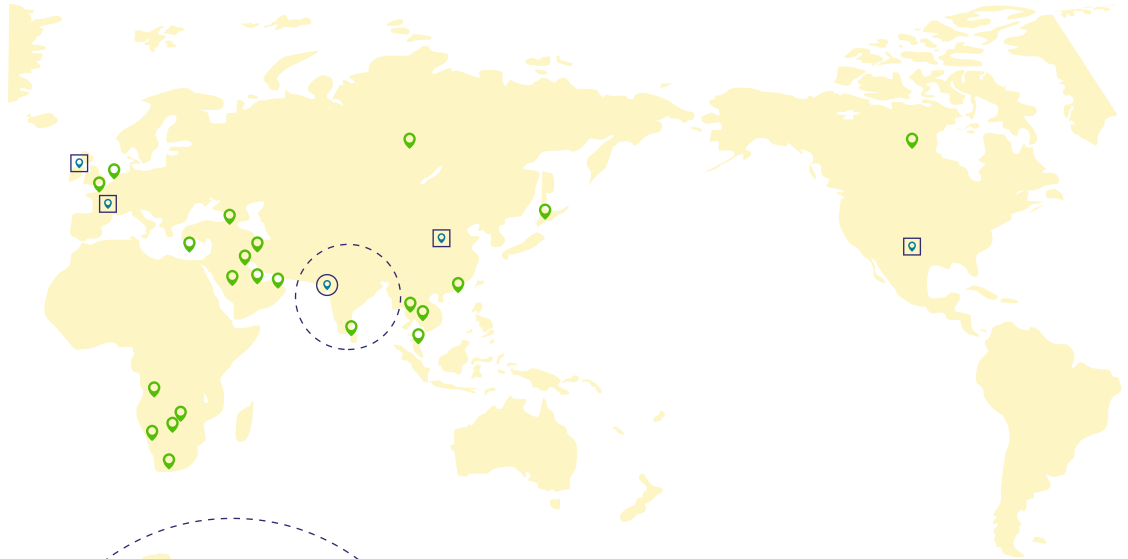
Tube Cutting
Powerful Chuck for robust operations
Process several shapes of tubes
Perfect results on light or heavy tubes
Ergonomic design for ease of production

Optional Accessories

- Class 1 Enclosure
- Pallet Changer
- Tube Cutting
- Filtered Fume Extractor
- Auto Focus Cutting Head
- Light Curtain

SLTL PRESENCE

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- South Africa
- South Korea
- Sri Lanka
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- Thailand
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- Mumbai
- Pune
- Rajkot
- Surat

-  Sales and Services
-  Installation Base
-  Head Office
-  Regional Office



An ISO 9001: 2015 certified company

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