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Innovative Laser Cutting Technology





SLTL Group is presenting infinity series, designed considering modular concept. The Infinity F1 is a powerful, highly productive laser cutting machine. The power model comes in a range of 1-10 kW. Infinity series is available in different variants designed 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 with cutting operations for 2D sheet cutting as standard and with tube cutting as an addition. 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 extracting mechanism, putting all these features together, the machine becomes a must buy for sheet metal cutting work. Its vigorous flexibility stands thunderbolt reflexes for swift material change. Hermetically 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 changing needs and demands. It is a machine that grows with your business.

Specification

		Unit	Working Range 2D				
			3015	4020	6520	6525	
Maximum Working Range	X Axis	mm	1550	2100	2100	2550	
	Y Axis	mm	3100	4100	6600	6600	
	Z Axis	mm	300				
Maximum Workpiece Weight		kgs	900	1650	2650	3100	
Positioning Precision		mm/meter	±0.05				
Repeatability		mm/meter	±0.02				
Maximum Rapid	Simultaneous	m/min	120				
Maximum Acceleration		m/s ²	15-20				
Tube Cutting							
			3m	6m			
Maximum Working Range	X x Y x Z	mm	2200 x 3100 x 300				
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				

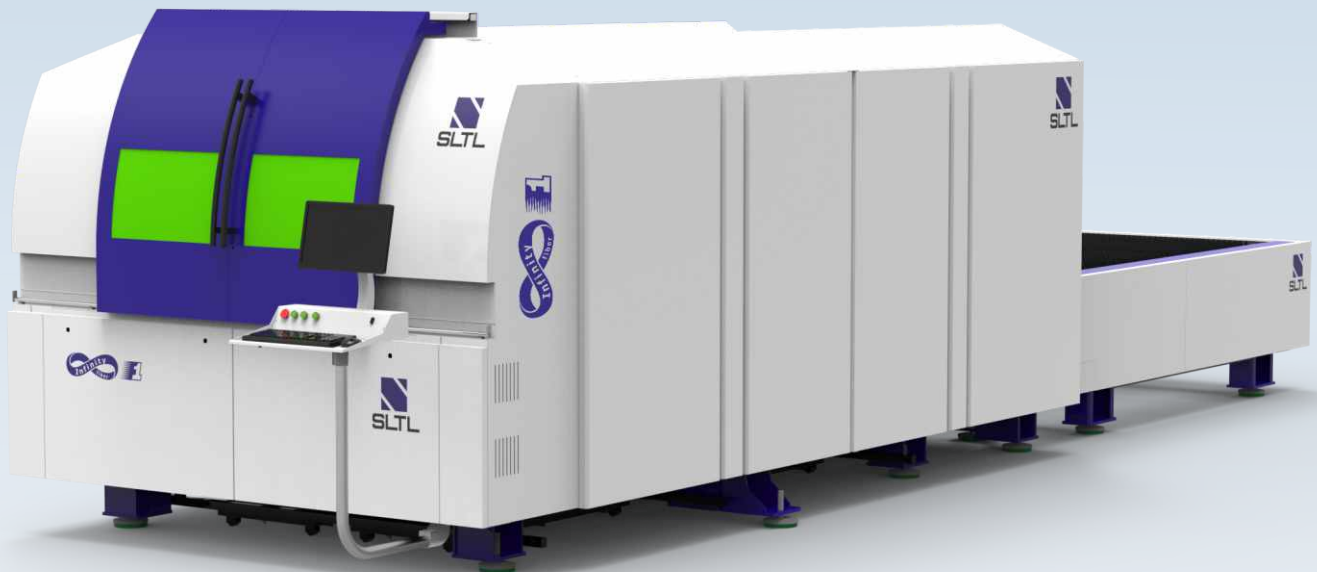
Min. pipe thickness 1.2 mm
Tube option available in 3015 model

Thickness & Power Consumption

Laser Power	1.5 kW	2 kW	3 kW	4 kW	6 kW	8 kW	10 kW
Mild Steel (MS)	12 (1/2")	16 (5/8")	20 (3/4")	22 (3/4")	25 (1")	25(1")	25(1")
Stainless Steel (SS) (O ₂)	8 (5/16")	10 (3/18")	10 (3/8")	10 (3/8")	10 (3/8")	10 (3/8")	10 (3/8")*
Stainless Steel (SS) (N ₂)	4 (5/32")	6 (1/4")	8 (5/16")	12 (1/2")	16 (5/8")	20 (3/4")	25 (1")
Aluminum (AL)	3 (1/8")	5 (3/16")	8 (5/16")	10 (3/8")	16 (5/8")	20 (3/4")	25(1")
Brass (Br)	3 (1/8")	5 (3/16")	6 (7/32")	10 (3/8")	12 (1/2")	16 (5/8")	16 (5/8")
Copper (Cu)	2 (1/16")	3 (1/8")	5 (3/16")	6 (7/32")	8 (5/16")	10 (3/18")	12 (1/2")
Galvanized Iron (GI)	3 (1/8")*	3 (1/8")*	3 (1/8")*	3 (1/8")*	3 (1/8")*	3 (1/8")*	3 (1/8")*
Power Consumption**	12 kW	17 kW	20 kW	24 kW	32 kW	40 kW	48 kW

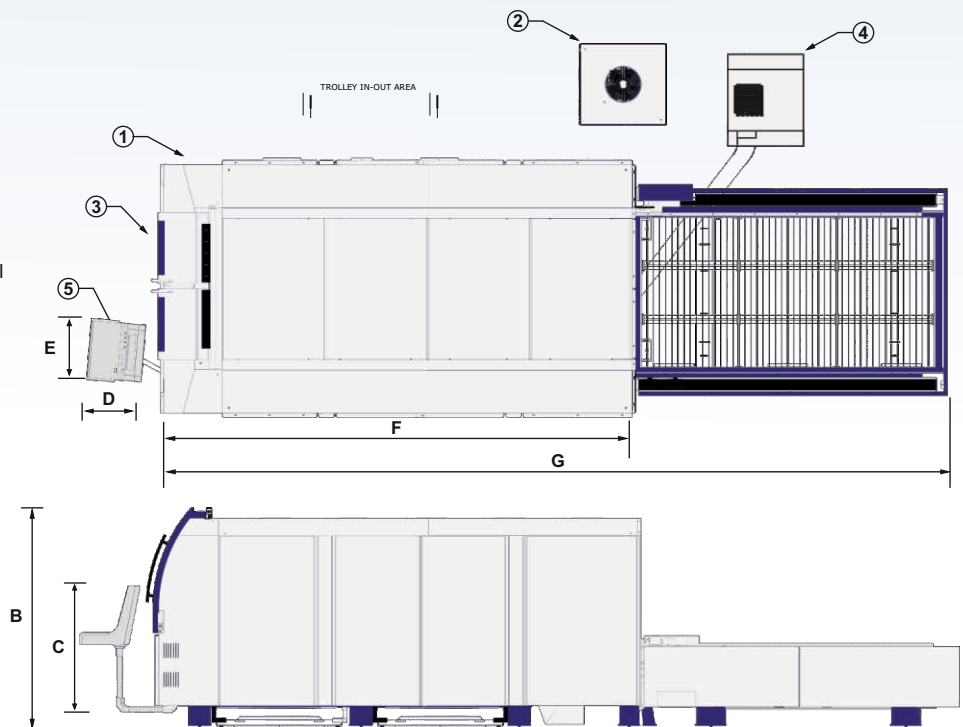
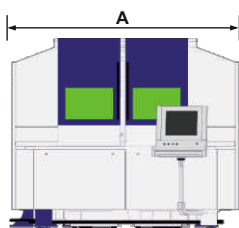
* The quality of the cut depends upon the attributes of metal, its surface properties and the conditions in which cutting operations is done. Metals with high thickness tend to have striation at lower edges
** The power consumption indicated in the table is measured on the machine's peak performance. 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)



2D Cutting with 6 m Tube cutting



2D Cutting with 3 m Tube cutting & Pallet changer



2D Cutting



2D Cutting with 6 m Tube cutting & Pallet changer



2D Cutting with Pallet changer



2D Cutting & Pallet changer (with enclosure)

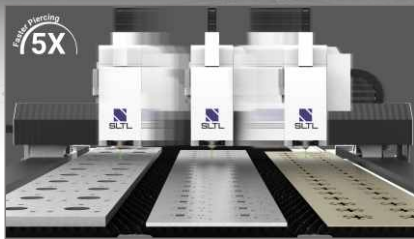


2D Cutting with 3 m Tube cutting



2D Cutting 4x2 m & Pallet changer (with enclosure)

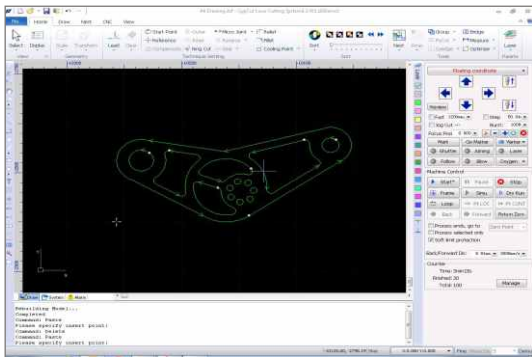
Features



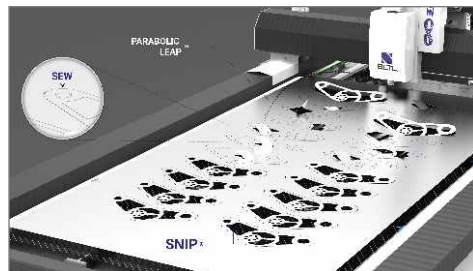
High flexibility for swift material change
 Auto Sheet Height Sensing (ASHS)
 2 phase rack design
 3 side accessibility in open variants
 Auto lubrication



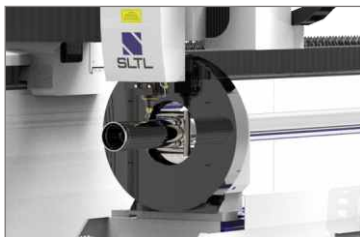
High end 64 bit CNC controller
 20ns high speed I/O
 Intelligent chiller laser handshake
 Hermetically sealed cabinet (Ip55)
 Cabin climetizer



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



Anti collision mechanism
 Common Cut / Fly Cut
 Single lens mechanism
 Ball support sheet loading
 Dynamic fume extractor mechanism
 Smart gas pressure system



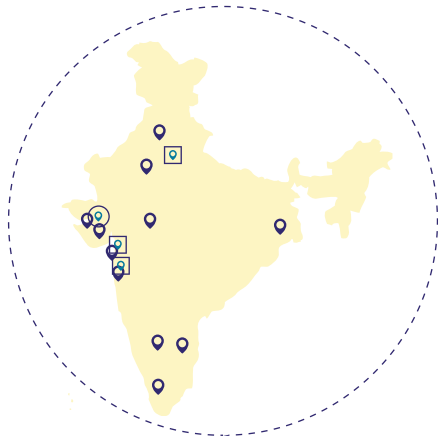
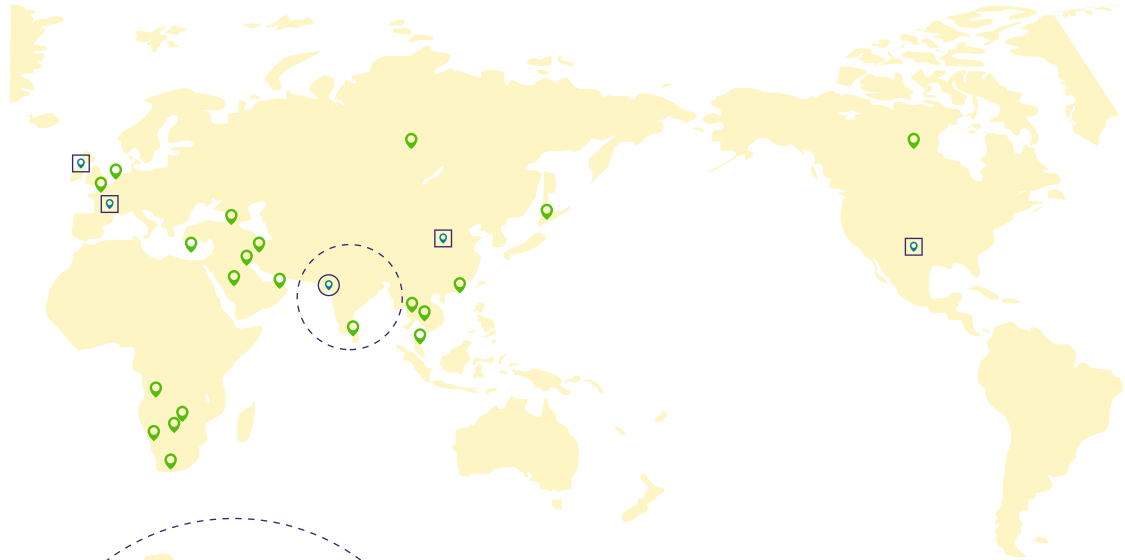
Versatile Pipe Cutting
 Powerful chuck for robust operations
 Process several shapes of tubes
 Perfect results on light or heavy tubes
 Ergonomic design for ease of production

Optional Accessories

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

SLTL PRESENCE

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-  Installation Base
-  Head Office
-  Regional Office



An ISO 9001:2015 Certified Company

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