NICHOL

SLTL® Group

FIBER LASER

Innovative Laser Cutting Technology

Infinity fiber F1

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**
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/meter	±0.05	±0.05	±0.05
Repeatability		mm/meter	±0.02	±0.02	±0.02
Maximum Rapid	Simultaneous	m/min	100	100	100
Maximum Acceleration		m/s²	20	20	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 kW**	**1.5 kW**	**2 kW**	**3 kW**	**4 kW**	**6 kW**	**8 kW**	**10 kW**
Mild Steel (MS)	10 (3/8")	12 (1/2")	16 (5/8")	20 (3/4")	22 (3/4")	25 (1")	25(1")	25(1")
Stainless Steel (SS) (O_2)	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 (SS) (N_2)	3 (1/8")	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")*	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")*	3 (1/8")	5 (3/16")	8 (5/16")	10 (3/8")	12 (1/2")	16 (5/8")	16 (5/8")
Copper (Cu)	3 (1/8")*	2 (1/16")	3 (1/8")	5 (3/16")	6 (7/32")	8 (5/16")	10 (3/18")	12 (1/2")
Galvanized Iron (GI)	2 (1/16")*	3 (1/8")*	3 (1/8")*	3 (1/8")*	3 (1/8")*	3 (1/8")*	3 (1/8")*	3 (1/8")*
Power Consumption***	10 kW	12 kW	17 kW	20 kW	24 kW	32 kW	40 kW	48 kW

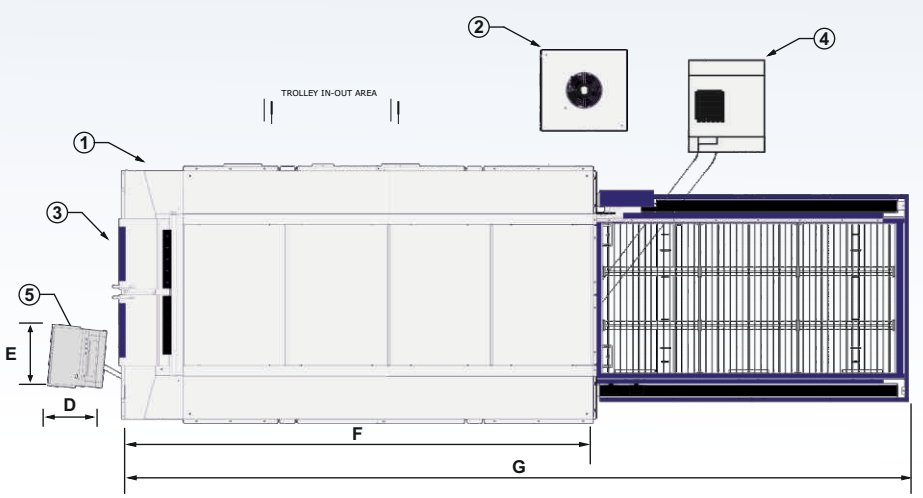
* The quality of the cut depends upon the attributes of metal, its surface properties and the conditions in which cutting operations is done. Metals with high thickness tend to have striation at lower edges
** Not advisable to process
*** The power consumption indicated in the table is measured on the machine's peak performance. It includes the connected load of laser source, controller, fume extractor and chiller.

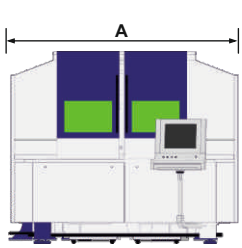
Machine Upgrades with Your Growing Needs

2D Cutting with enclosure
& Pallet changer

Sr. No.	Dimension
A	2750 MM
B	2200 MM
C	1310 MM
D	580 MM
E	650 MM
F	5050 MM
G	8400 MM

Sr. No.	Part
1	Machine
2	Chiller
3	Inbuilt Control Panel
4	Fume Extractor
5	Operating Panel





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Machine Upgrades with Your Growing Needs

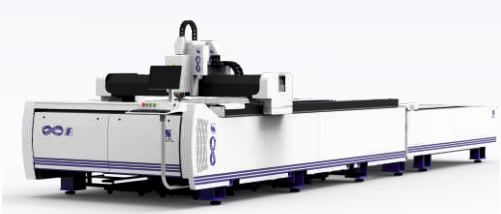
2D Cutting with 6m Tube cutting
& Pallet changer (with enclosure)

2D Cutting with 6 m Tube cutting

2D Cutting with 3 m Tube cutting & Pallet changer

2D Cutting

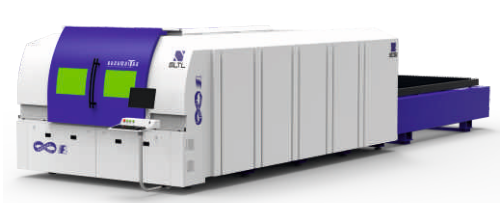
2D Cutting with 6 m Tube cutting & Pallet changer



2D Cutting with Pallet changer

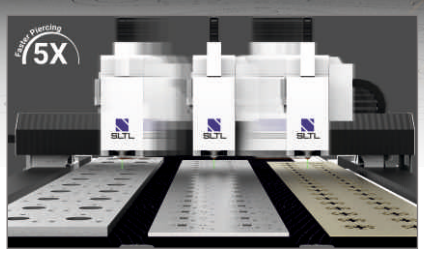
2D Cutting & Pallet changer (with enclosure)

2D Cutting with 3 m Tube cutting



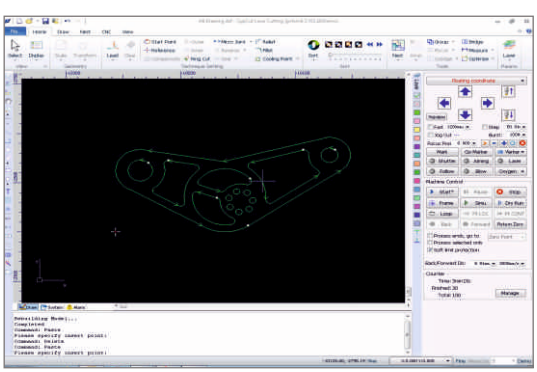
2D Cutting 4x2 m & Pallet changer (with enclosure)

Features



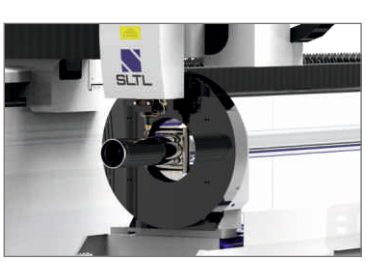
High flexibility for swift material change
Auto Sheet Height Sensing (ASHS)
2 phase rack design
3 side accessibility in open variants
Auto lubrication

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



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

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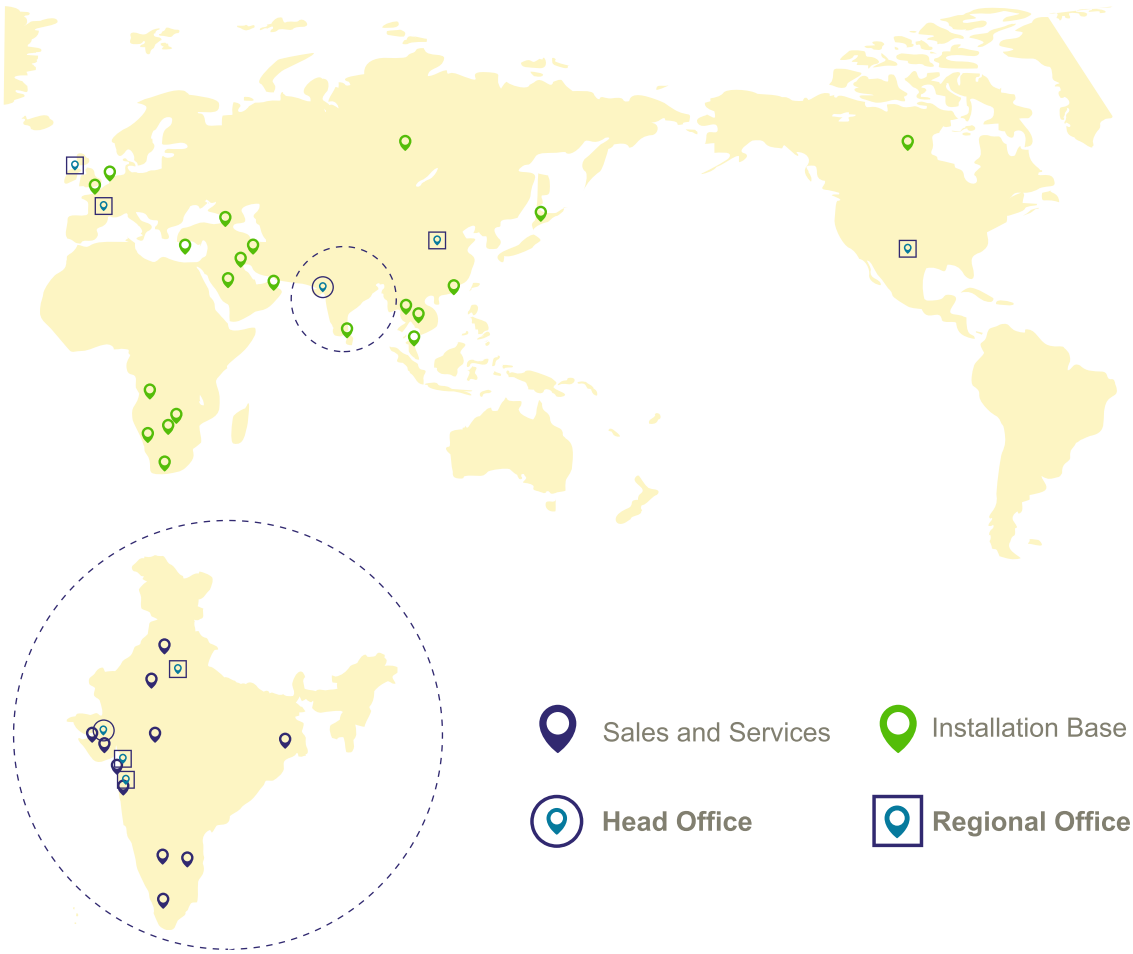

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