



KRYSTAL ENERGY PVT. LTD.

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official website

**Galaxy
inteliCUT
Series**



KRYSTAL ENERGY PVT. LTD.

AN ISO 9001:2015 Certified Company

**PRO
CATALOG**



About :

KRYSTAL ENERGY – is one of the few manufacturers in the World providing customized CNC Laser solutions. The company offers total solution with a wide range of laser systems for industrial applications such as: Laser Cutting, Marking, Engraving, Welding, Micro Machining, Solar Cell Scribing/Cutting, Diamond processing, etc. The offered machines are manufactured by making use of supreme grade components with the help of ultra-modern machines in compliance with set industry norms. Moreover, these machines are checked for their quality on series of quality parameters by our quality controllers assuring their flawlessness at user's end. Our offered machines are widely demanded for cutting, welding, engraving and other such purposes in different metal fabrication industries. We also provide installation, commissioning, maintenance and replacement Services of these machines to our clients in most nominal prices. Our offered machines are widely appreciated by our clients for their enormous features such as sturdy construction, hassle free performance, easy to install, long functional life, noise less operation, low power consumption and durability.

Features :



CUTTING HEAD

Constant, high cutting speeds at any operating temperature short changeover time with quick change of the focal length with receipt of the TCP, smaller lens diameter, pre-adjusted focusing optics Perfect for job shop operation, work with actual piercing times via piercing monitoring Lens break sensor detects damage to the focus lens as well as larger spatters.

CONTROL SYSTEM

Cypcut Control system and software with latest version, applicable insert files with DXF Or AI, IGS format. Drawing in the software is also compatible. Software with fly cutting mode for cutting same products for save time. With Nesting function, autonomic compose type for saving materials by saving spaces.



HIGH EFFICIENT COOLING SYSTEM

High efficient Professional cooling systems, refrigeration temperatures are shown in table, the water temperature in excess of the prescribed temperature refrigeration unit automatically when cooling, refrigeration unit automatically stops when the water temperature below the specified temperature refrigeration.



TRANSMISSION GEAR

Rack and pinion system with diagnosis system automatically lubricates the drive based on the movement of axis.

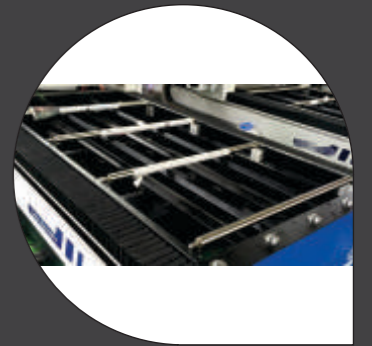


Galaxy
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LOADING AND UNLOADING
SYSTEM

Full rolls will be on machine bed; these rolls are drive by air pressure. When you are loading metal sheet, rolls go up and after loading, rolls go down. It saves human strength a lot.



SMART LUBRICANT
SYSTEM

The self lubricating system automatically lubricates the drive based on the axis movement.



RIGID GANTRY
STRUCTURE

High quality welded pipe framework structure professionally welded, secondary aging, large gantry milling machine for precision processing, design and processing methods to ensure that these machines have high capacity, high rigidity and stability.



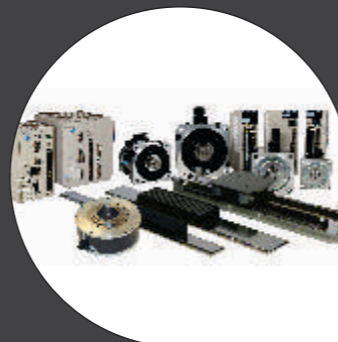
LASER
SOURCE

IPG / Raycus CW fiber laser is designed for industrial and scientific research applications with high pump conversion efficiency, low power consumption and excellent beam quality. It is compact and ready to use. It can be used as a stand-alone unit or easily inserted into users' apparatus. High Beam Quality Fiber Delivery Reliable, Long Life Maintenance Free Operation High Efficient Convenient Control Interface 1,00,000 Hrs. MTTF life.



DRIVING
SYSTEM

Dual drive Y Axis Gantry structures withstand high speed and acceleration, high damping body, good rigidity. Yaskawa (Japan) AC servo system and drive systems, rack-pinion drive, linear Guide, ensure the high speed, high precision, high reliability.



COLLECTION
SYSTEM

Providing universal collection system for collecting cutting products. At bottom of laser machine bed.



Technical Parameter :

TECHNICAL DATA :

Laser Power	500W	700W	1000W	1500W	2000W	3000W
Wavelength	1070-1080 nm					
Cutting Area	1500 × 3000(mm)					
Z-Axis Travel	150mm					
Z-Axis Positioning	< + 0.02mm					
Z-Axis repeat positioning accuracy	< + 0.01mm					
Position Tolerance	± 0.05 mm/m					
Repetition Tolerance	± 0.03 mm					
X,Y-Axis idle moving speed	80 m/min					
Maximum support weight of the table	About 950kg					

ACCESSORIES :

- Touch Screen HMI
- Auto Loading and Unloading
- Safety interlock
- Auto Nozzle Cleaning
- Scrap Trolley
- Rotary for Tube Cutting (Optional)
- Dynamic Motorized Lens
- Hand Held Wi-Fi Unit
- Enclosure Unit Best in Class
- Easy Operation
- Diagnosis Solution.

Accessories

CUTTING PARAMETER :

Laser Power	500W	700W	1000W	1500W	2000W	3000W
Stainless Steel (02)	3.0 mm	4.0 mm	6.0 mm	7.5 mm	10 mm	12 mm
Strainless Steel (N2)	2.0 mm	3.0 mm	4.0 mm	6.5 mm	6.0 mm	10 mm
Mild Steel	6.0 mm	8.0 mm	10 mm	14 mm	18 mm	25 mm
Brass	1.0 mm	3.0 mm	3.0 mm	4.5 mm	6.0 mm	10 mm
Copper	1.0 mm	2.0 mm	2.0 mm	3.0 mm	4.0 mm	5.0 mm
Aluminium	1.5 mm	4.0 mm	5.0 mm	6.5 mm	8.0 mm	12 mm

Process at Glance :

Sheet Metal Fabrication, Food And Beverages, Panel Board, Electronics , Elevators and Escalators, Signage Industry, Agriculture Machinery, Racks, Gems and Jewelry, Oil and Food Processing Machinery, Architecture Furniture, Commercial and Consumer Goods, Textile, Building , Tool and tooling.

