

The logo for DERATECH, featuring the word "DERATECH" in a bold, sans-serif font. The letters "D", "E", and "A" are white, while "R", "T", "E", and "C" are yellow. The text is set against a dark grey rectangular background with rounded corners. A yellow circle is positioned behind the letter "E".

DERATECH

瑞铁机床

Future H

Fiber Laser Cutting Machine

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PROFESSIONAL/CONSISTENT/DEDICATED/EXCELLENT



Deratech Machine Tool (Suzhou) Corp., Ltd, a giant in the field of sheet metal forming and processing in China. Located in Taicang, Jiangsu Province, adjacent to Shanghai, the company mainly produces CNC press brakes, bending centers, laser cutting machines, flexible production units and other sheet metal forming processing equipment and equipment sets, and its products are well sold in domestic and abroad. With the continuous development of the company's business, all aspects of the company's strength are stepping up to a new level.

The company has always taken it as its mission to develop more cost-effective, durable and better sheet metal forming and processing equipment, to drive product iteration with technological advancement and drive enterprise development. In recent years, the products of Deratech have become more and more recognized by the industry and favoured by customers. With the successive launch of electric servo CNC press brakes and bending centers, the company will always focus on the perfection of its products to create more value for customers.

To date, Deratech has been granted over 100 patents (including 8 invention patents). It has been awarded as "Jiangsu Province Specialized and Sophisticated SMEs", "Jiangsu Province High and New Technology Enterprise", "Jiangsu Province Provincial Enterprise Technology Centre", "Jiangsu Province High-end sheet metal CNC machine tools strategic emerging industry standardization pilot", "Jiangsu Province intelligent flexible sheet metal equipment engineering research centre" and other titles, and participated in the CNC press brake national standards, industry standards revision and other work.

Driven by the target of "Made in China 2025", Deratech will continue to move forward and work hard. Growing up with customers and staying with them for a long time is Deratech's faithful commitment to customers.



## Future H Fiber Laser Cutting Machine



Future H series fiber laser cutting machine for high power cutting applications, using a full package body, the laser technology and CNC technology deep integration. It does ultra-high speed cutting of thin plates, high efficiency processing of medium and thick plates, and a wider range of processed materials.

## PRODUCT FEATURES

### Semi-Hollow Structure Bed (Patented)

Adopting thick steel plate to be welded as a whole, annealing to eliminate stress, it has good rigidity, high strength and good stability. The semi-hollow design of the cutting area, the increase of heat insulation materials to strengthen the performance of anti-burning and heat insulation, while blocking the thermal deformation of the frame, so that the machine tool will not be deformed for a long time.



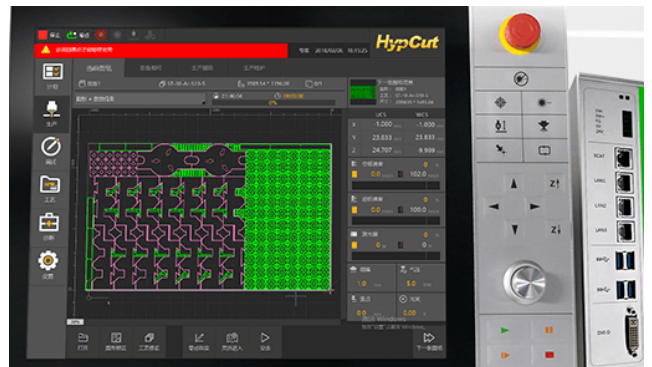
### High Rigidity, Lightweight Welded Steel Beam

The beam is welded with bent steel plate and tenon structure reinforcement, which has high rigidity and light weight. With the combination of high-performance servo motor and bus system, it has high processing accuracy and faster moving speed.



### FSCUT8000 CNC System

The laser advanced intelligent bus system meets the needs of ultra-high power fiber laser cutting of 8KW and above. The control is more intuitive and comfortable. Fully closed-loop control, the machine tool has better responsiveness and control accuracy, and supports higher acceleration. EtherCAT bus communication has strong anti-interference and can transmit over long distances. Powerful functions, better performance, and more convenient docking of industrial automation and intelligence.



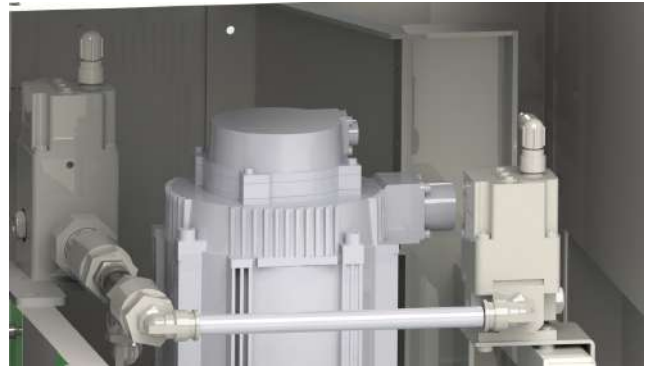
### Precitec Fiber Cutting Head

Equipped with the German Precitec high-power cutting head, it can realize non-inductive perforation, smart cutting, highspeed leapfrogging, ultra-small taper cutting, high-gloss cutting, etc. High-power focusing, more efficient cooling, real-time early warning and monitoring, to ensure the stable and long-term operation of the machine. The transmission mechanism adopts German STOBBER reducer and Atlanta gear and rack with European configuration and conscientious quality.



### Dual Proportional Valve Air Circuit Control

The cutting gas high and low pressure are controlled separately. It is used for high-power cutting to adapt to more types of sheets and a larger process range. The high-pressure proportional valve controls high-pressure nitrogen/air, with a maximum pressure resistance of 50kg, and an adjustable pressure range of up to 30kg. The low-pressure proportional valve controls the oxygen pressure, the pressure is small when cutting low-pressure gas, and the flow control is more precise.



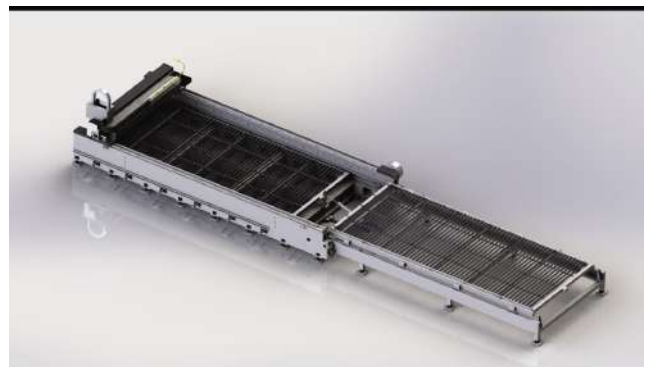
### Double-side Zoning Air Extraction Design

Both sides of the cutting area are equipped with partition dust removal device, and the control cylinder and pipeline are external. The high-power cutting failure rate is low, the sealing effect is good, the air volume loss of the air duct is small, and the dust removal effect is excellent.



### High-speed Exchange Dual Platform

Adopt double-side chain-driven double platform horizontal exchange structure, fast exchange speed, to ensure that the cutting box is more stable and efficient when the full load exchange.



<b>PARAMETERS - Future H</b>				
Model	Future H3015	Future H6025	Future H8025	Future H12025
Machining area (mm)	3000x1500	6000x2500	8000x2500	12050x2550
X-axis stroke (mm)	1550	2550	2550	2550
Y-axis stroke (mm)	3050	6050	8050	12050
Z-axis stroke (mm)	300	300	300	300
Positioning precision of X/Y axis (mm/m)	±0.05	±0.05	±0.05	±0.05
Repetitive positioning precision of X/Y axis (mm/m)	0.03	0.03	0.03	0.03
Maximum speed (m/min)	110	110	110	110
Maximun acceleration speed (g)	1.2	1.2	1.2	1.2
Laser source power (W)	≤20000	≤20000	≤20000	≤20000
Dimensions (mm)	9750x3050x2600	15500x4200x2600	19550x4200x2600	28000x4200x2600

**DERATECH**

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