

PRODUCT DATA SHEET



2025-2026

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

HT-FC 1530

FIBER LASER CUTTING MACHINE

Q SERIES



Precision & Performance
Featuring fully automatic focusing, intelligent height tracking, and free nesting, the HT FC-1530 delivers fast, stable, high-precision cutting across carbon steel, stainless steel, aluminum, brass, copper, and titanium alloys.

Industrial-Grade Construction
A 600°C annealed steel bed and aviation-grade aluminum beam ensure long-term rigidity and vibration resistance. YYC guide rails and a helical rack drive enable smooth, accurate motion with reduced driving torque.

Reliable Core Components
The Raycus laser source paired with a Raytools cutting head guarantees stable beam quality and fast cutting speeds. A HanLi chiller and FSCUT control system ensure consistent power monitoring and reliable long-term operation.



FSCUT2000E SOFTWARE

FSCUT2000E LOW POWER LASER CONTROL SYSTEM APPLIES TO 1-4KW POWER CUTTING WITH EASY INSTALLATION AND DEBUGGING, EXCELLENT PERFORMANCE, AND INCLUSIVE SOLUTIONS.

RAYCUS LASER SOURCE

THE RAYCUS RFL-C1500 SINGLE-MODULE CW FIBER LASER DELIVERS 1500W OF STABLE OUTPUT WITH HIGH ELECTRO-OPTICAL EFFICIENCY, EXCELLENT BEAM QUALITY, AND LONG SERVICE LIFE.

ITS COMPACT FIBER-COUPLED DESIGN INTEGRATES EASILY INTO FLEXIBLE MANUFACTURING SYSTEMS, ENSURING RELIABLE, PRECISE, MAINTENANCE-FREE PERFORMANCE FOR CUTTING, WELDING, AND MARKING APPLICATIONS.



PARTS



RAYTOOLS/BOCHU CUTTING HEAD

FEATURES COLLISION PROTECTION TO PREVENT DAMAGE, FAST FOCUSING VIA COLLIMATING LENS, 90% WATER-COOLING COVERAGE FOR STABLE PERFORMANCE, AND PROTECTIVE WINDOW MONITORING TO ENSURE CONSISTENT CUTTING QUALITY. IDEAL FOR ≤ 8 KW FIBER LASER SYSTEMS.

BOCHU SERVO DRIVE

THE S9, OUR LATEST BREAKTHROUGH IN ETHERCAT BUS SERVO TECHNOLOGY, SETTING A NEW STANDARD FOR EXCELLENCE.

DESIGNED TO MEET THE HIGHEST EMC NATIONAL STANDARDS, LEVEL 4 CERTIFICATION, THE S9 DELIVERS UNRIVALED PERFORMANCE ADVANTAGES WITH ITS HIGH INERTIA, BIG TORQUE, AND EXCEPTIONAL SPEED CAPABILITIES.



BOCHU SERVO MOTOR

THIS HIGH-PERFORMANCE SERVO MOTOR FEATURES A ONE-STEP LOCKING CONNECTOR AND STRONG SHOCK RESISTANCE FOR EASIER DEBUGGING AND MORE STABLE OPERATION.

WITH SHORTER POSITIONING TIME, IT WORKS SEAMLESSLY WITH THE SERVO DRIVE TO DELIVER PRECISE POSITION CONTROL, SPEED CONTROL, AND TORQUE CONTROL.

PARTS

BOCHU TERMINAL BOARD

THE BOCHU BCL4568E IS A CORE TERMINAL BOARD WITHIN THE FSCUT ETHERCAT LASER CUTTING CONTROL SYSTEM, INTEGRATING POWER, I/O, PWM/DA, AND ETHERCAT COMMUNICATION INTERFACES.

IT ENSURES STABLE, HIGH-SPEED SIGNAL TRANSMISSION, SIMPLIFIED WIRING, AND RELIABLE COORDINATION BETWEEN MOTION CONTROL, LASER, AND GAS SYSTEMS.





WORKING BED

REPLACEABLE STEEL SLAT TABLE-STEEL WORKING BED UNDERGOES ANNEALING TO RELIEVE INTERNAL STRESS, FOLLOWED BY SECONDARY VIBRATION AGING TREATMENT.

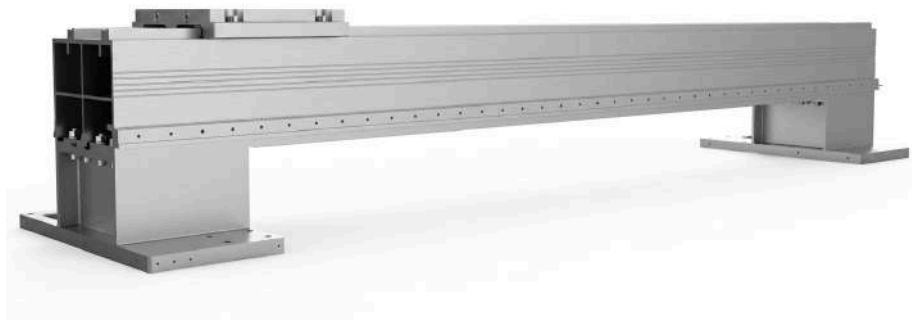
THIS DUAL-PROCESS ENSURES EXCEPTIONAL STRUCTURAL STABILITY, PREVENTING LONG-TERM DEFORMATION AND GUARANTEEING PRECISE, RELIABLE CUTTING PERFORMANCE THROUGHOUT THE MACHINE'S SERVICE LIFE.

PARTS

GANTRY BEAM

CONSTRUCTED FROM HIGH-STRENGTH STEEL, THE GANTRY BEAM UNDERGOES ANNEALING TO RELIEVE INTERNAL STRESS, FOLLOWED BY SECONDARY VIBRATION AGING TREATMENT.

THIS PROCESS ENSURES EXCELLENT RIGIDITY, DYNAMIC STABILITY, AND LONG-TERM PRECISION DURING HIGH-SPEED OPERATION.



HANLI CHILLER

THE HTFC-1.5KW FIBER LASER CUTTING MACHINE IS PAIRED WITH A HANLI 1500 INDUSTRIAL WATER CHILLER, PRECISELY MATCHED TO THE LASER SOURCE.

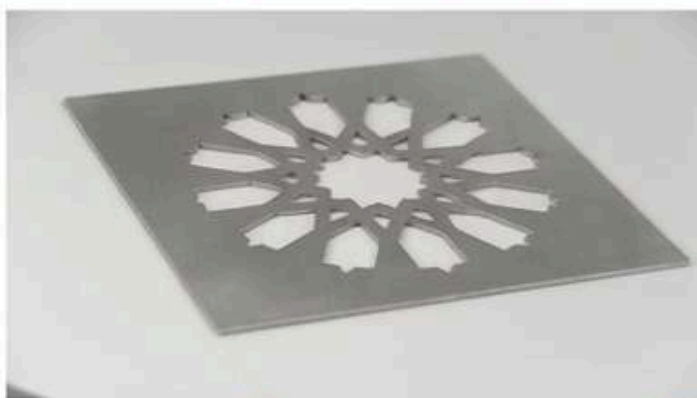
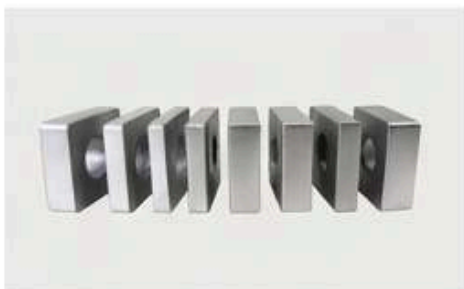
IT ENSURES STABLE COOLING TEMPERATURE CONTROL, PROTECTS THE LASER FROM OVERHEATING, EXTENDS COMPONENT LIFESPAN, AND GUARANTEES CONSISTENT CUTTING QUALITY DURING LONG-DURATION OPERATION.

Technical Parameters

Working Bed Size	3000*1500
Laser Power	1500W
Fiber Laser Source	Raycus
Laser Head	BLT 421
Control System	Cypcut
Motor Reducer	France Motoreducer
Electric Components	Germany Schneider
Guide Rail	Taiwan Laak
Gear Rack	PEK
Proportional Valve (O2, N2)	Japan SMC
Computer	Standard Industrial PC
Gantry Beam	Standard Aviation Aluminum
Water Chiller Cooling System	Hanli chiller
Laser Wavelength	1080 nm
Z Axis Stroke	300 mm
Max Speed	80 m/min
Maximum Acceleration	0.8G
Positioning Accuracy	±0.03 mm
Repeated Positioning	±0.02mm
Machine Total weight	1700KG
Package Size	470*228*190cm (20.4m³)
Voltage	Single-phase AC220V50HZ
Suitable Materials	Carbon steel / Stainless steel / Aluminum alloy / Brass / Copper / Galvanized sheet /Silicon steel / Sheet / Electrolytic sheet / Titanium alloy / Manganese alloy , etc

Cutting Parameters							
Material	Thickness (mm)	1000w	1500w	2000w	3000w	4000w	6000w
		Speed (m/min)	Speed (m/min)	Speed (m/min)	Speed (m/min)	Speed (m/min)	Speed (m/min)
Carbon Steel	1	24-26	30-38	34-39	37-42	40-50	43-52
	2	8-9	12-14	16-17	18-20	21-23	23-29
	3	2.8-3.0	2.9-3.2	3.4-3.6	4.0-4.2	5.0-5.2	6-10
	4	2.2-2.4	2.4-2.6	3.1-3.2	3.3-3.5	3.5	3.5-3.7
	5	1.5-1.7	1.8-2.0	2.7-3.0	2.8-3.0	3.0-3.2	3.2-3.3
	6	1.2-1.4	1.6-1.8	2.0-2.2	2.3-2.5	2.6-2.8	2.6-2.8
	8	1.0-1.1	1.1-1.3	1.5-1.7	2.1-2.2	2.1-2.3	2.4-2.5
	10	0.75-0.85	0.9-1.0	1.2-1.4	1.7-1.7	1.8-2.0	2.2-2.3
	12	0.6-0.65	0.8-0.9	1.0-1.1	1.2-1.4	1.5-1.6	1.9-2.0
	14		0.6-0.7	0.9-1.0	1.0-1.1	1.2-1.4	1.2-1.5
	16		0.5-0.6	0.8-0.85	0.85-0.9	0.85-0.95	0.8-0.9
	18			0.7-0.75	0.7-0.75	0.9-1.0	0.7-0.8
	20			0.55-0.6	0.6-0.65	0.65-0.7	0.6-0.65
	25				0.45-0.5	0.45-0.5	0.5-0.55
	30						0.3-0.2
Stainless Steel	1	28-32	32-35	35-41	38-42	40-45	45-47
	2	6-7	9-10	14-15	20-30	32-35	35-37
	3	2.8-3.0	4.2-4.5	6.5-7.0	13.5	14-17	18-20
	4	0.9-1.2	2.1-2.3	3.5-4.0	5.0-6.5	6.5-7.0	14-15
	5	0.8-0.9	1.6-1.8	2.0-2.2	3.0-4.5	4.8-5.0	8-10
	6	0.5-0.6	1.0-1.2	1.3-1.5	3.5	4.5	6.0-6.5
	8		0.5-0.6	0.7-0.8	1.6	2.0	4.0-4.2
	10			0.55-0.6	0.8	1.4	1.8-2.0
	12				0.6	0.9	1.1-1.3
	14					0.4	0.9-1.0
	16						0.8-0.85
	18						0.6-0.7
	20						0.5-0.6
Aluminum	1	19-21	20-28	25-30	30-33	35-37	50-52
	2	4.5-5.0	8-9	8-12	10-15	15-17	28-29
	3	1.8-2.0	3.8-4.2	5.5-6.0	5.5-5.9	6.5-7.0	15-17
	4		2.0-2.2	2.5-3	2.8-3.2	4.5-4.8	9-10
	5		0.8-1.0	1.5-2	2.0-2.2	3.8-4.2	6.0-6.5
	6			0.6-0.8	0.7-0.8	2.0-2.2	4.5-5.0
	8					1.0-1.2	2.8-2.9
	10					0.5-0.6	1.9-2.0
	12						1.1-1.2
	16						0.5-0.6
Brass	1	16-18	25-27	31-35	35-40	35-40	44-55
	2	3.0-3.5	7-8	8-10	10-12	12-14	25-35
	3	1.1-1.3	2.7-3.0	5.5-6.0	4.5-5.0	6.5-6.8	17-20
	4		1.5-1.7	2.5-3.0	3.0-3.5	4.5-4.7	10-12
	5			1.8-2.0	2.8-3.0	3.8-4.2	7-8
	6			0.9-1.1	1.0-1.2	1.3-1.5	5-6
	8				0.5-0.7	0.7-0.8	2-3
	10						1.6-2.0
	12						1.3-1.7
	16						0.6-0.6

Cutting samples



ABOUT US

BUILD . TO LEAD .



Based in Weifang, Shandong, our modern manufacturing base covers over 12,000 m² and integrates research, development, production, and testing in one facility — ensuring stability, efficiency, and quality at every stage.

Hightech provides professional installation, training, and lifetime technical support. Our responsive service team and spare-parts centers ensure fast solutions and long-term reliability for every customer.



Equipped with advanced CNC machining centers, laser cutting systems, precision welding equipment, and intelligent assembly lines, Hightech continuously upgrades its technology to meet global industrial standards.

Driven by passion and professionalism, our international team of engineers, designers, and sales specialists works together to deliver innovative machines and trusted partnerships worldwide under the Hightech brand.





CONTACT US



- | | |
|---|--|
|  USA, Hightech Industry INC USA |  Canada, Hightech Industry Canada |
|  United Kingdom, Hightech Signage Solutions LTD |  Mexico, Hightech Industry operatedby Imprime iya |
|  Iran, Hightech Industry operated by Aluone |  Brazil, Hightech Industry operated by Banner Jet |
|  India, Mehta Hightech Industries L.L.P |  IRAQ, BAGHDAD, Hightech Industry operated by AL Sabagh |
|  Dubai, Hightech Blue LLC |  Indonesia, Hightech operated by PT Digital Prima Imaging |



 NO. 6188 WEICHANG ROAD, WEICHENG DISTRICT, WEIFANG CITY, SHANDONG PROVINCE, CHINA

 INFO@HTINDUSTRYCO.COM  WWW.HTINDUSTRYCO.COM  +86 156 2166 0575 / +86 156 2166 0576