

PRODUCT

DATA SHEET



Bending
Cutting
Welding
Marking

2024-2025

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

HT-1390

CO2 LASER
CUTTING &
ENGRAVING
MACHINE

E-SERIES



High-Precision
Cutting & Engraving
for Wood, Acrylic,
Leather, and More

Stable Belt-Driven
System Ensures
Smooth, Accurate
Performance

Optional Rotary Axis
for Engraving
Cylindrical
Materials like
Bottles and Logs

YONGLI TUBE

DIRECT GLASS-TO-METAL SEALING FOR ULTIMATE STRUCTURAL STABILITY AND MODE INTEGRITY.

EXCELLENT BEAM QUALITY WITH >95% TEM00 MODE.

PATENTED SPIRAL COOLING TECHNOLOGY FOR SIGNIFICANTLY LONGER LIFESPAN.

OVER A MILLION UNITS SOLD, BACKED BY STANDARDIZED MASS-PRODUCTION EXPERTISE.



PARTS

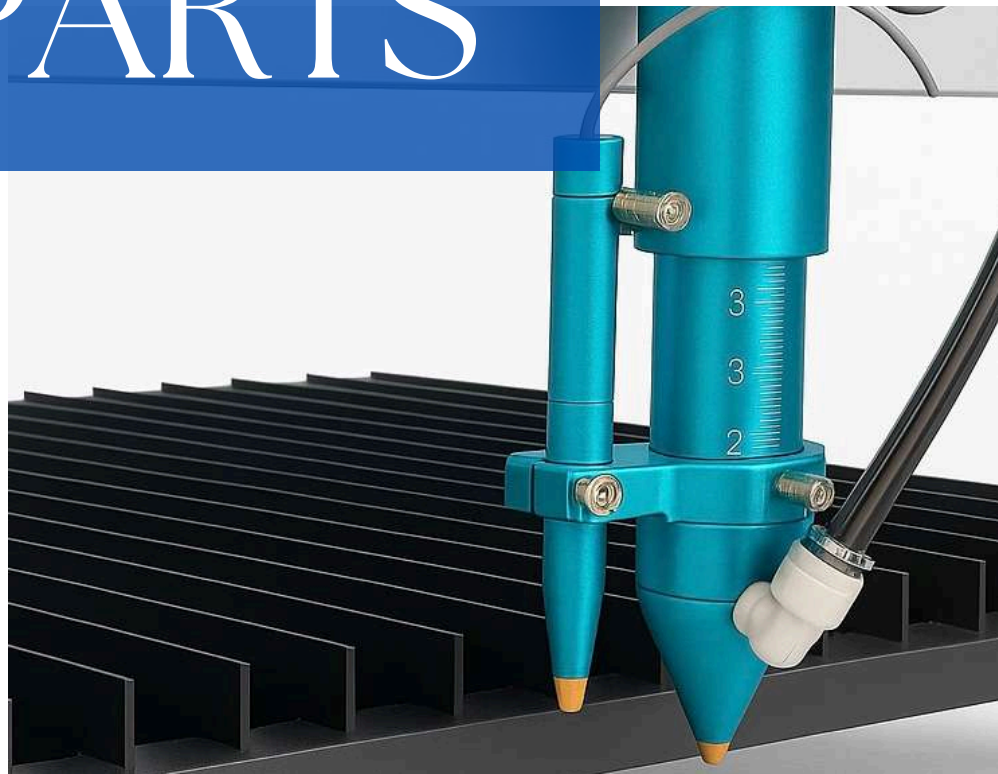
AUTOFOCUS LASER HEAD

(AVAILABLE OPTIONS)

AUTOMATICALLY AND INSTANTLY ADJUSTS THE FOCAL POINT FOR DIFFERENT MATERIAL THICKNESSES.

DELIVERS CLEAN, CONSISTENT CUTS ON ANY SURFACE.

MAKES THE PROCESS USER-FRIENDLY AND ERROR-PROOF.



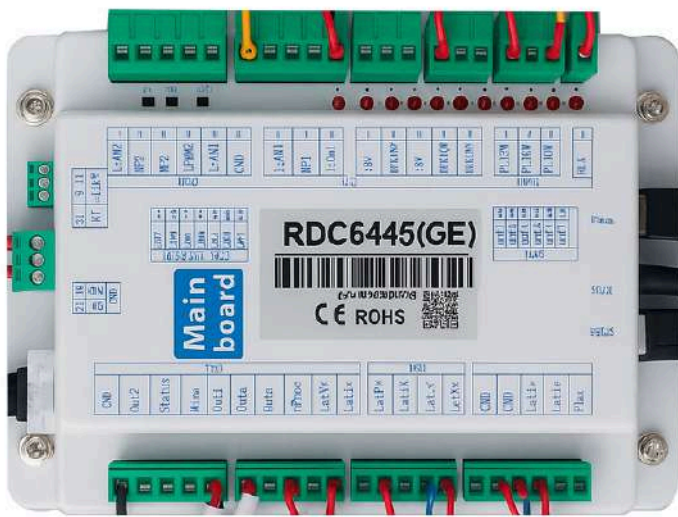
CW-5200 CHILLER

FEATURES A SMALL FOOTPRINT FOR EASY MOBILITY AND IS ENGINEERED FOR CO₂ LASERS AND SPINDLES.

OFFERS CONSTANT TEMPERATURE AND INTELLIGENT DUAL-MODE CONTROL FOR VARIOUS OPERATIONAL NEEDS.

INCORPORATES MULTI-LEVEL PROTECTIONS AND HOLDS INTERNATIONAL CERTIFICATIONS (ISO9001, CE, ROHS, REACH) FOR STABLE PERFORMANCE.





RUIDA CONTROLLER

EQUIPPED WITH THE LATEST RUIDA DSP CONTROL SYSTEM, FEATURING A HIGH-SPEED USB INTERFACE AND A HIGH-PERFORMANCE MAINBOARD WITH ENHANCED PROTECTION AGAINST HIGH VOLTAGE AND STATIC INTERFERENCE, ENSURING STABLE PERFORMANCE, PRECISE CONTROL, AND LONG-TERM RELIABILITY.

CONTROL PANEL

CENTRALIZES ALL KEY FUNCTIONS FOR ONE-STOP OPERATION.

ENABLES INTUITIVE EDITING AND REAL-TIME MONITORING VIA A TOUCHSCREEN.

STORES AND RECALLS MATERIAL-SPECIFIC SETTINGS FOR CONSISTENT RESULTS.



PARTS



LASER POWER SUPPLY

PROVIDES A CONTINUOUS AND STABLE POWER SUPPLY TO THE LASER TUBE FOR RELIABLE OPERATION.

MAINTAINS STABLE VOLTAGE AND A CONSISTENT OPTICAL PATH FOR SUPERIOR, PREDICTABLE CUT QUALITY.

MAXIMIZES CUTTING PERFORMANCE AND PROTECTS THE LASER TUBE BY ENSURING STABLE ELECTRICAL INPUT.



MICROSTEP DRIVER

ENSURES SMOOTH, ACCURATE CUTTING PATHS AND SHARP CORNERS.

ENABLES FAST ACCELERATION AND DECELERATION FOR COMPLEX DESIGNS.

PROVIDES ROBUST PROTECTION FOR CONTINUOUS HEAVY-DUTY OPERATION.

PARTS

MOTOR

IT DOES NOT LOSE STEPS DURING WORK, WITH A SPEEDUP RATIO OF 30%, GOOD COOLING EFFECT, SMOOTH OPERATION, RELATIVELY SMALL VIBRATION, AND POWER SAVING.



AIR COMPRESSOR

PRODUCES CONTINUOUS AIR FLOW, COOLING THE CUTTING SURFACE TO AVOID EXCESSIVE CUTTING TEMPERATURE.

MAINTAINS A CONSISTENT TEMPERATURE AT THE POINT OF CUTTING TO ENSURE STABLE CUTTING CONDITIONS, WHICH IMPROVES SPEED AND PROCESS RELIABILITY.



Technical Parameters

Working Size	1300*900mm
Package Size	1960*1470*1230mm
Package Weight	410KG
Laser Power	60w/80w/100w/120w/130W/150W/180w/300w
Working Voltage	Single Phase AC 220V 50Hz/110V 60Hz
Control System	Ruida system 6445 DSP
Motor and Drive	Stepper motor; High subdivision driver
Guide Rail	Linear guide rail hidden structure
Working Bed	Blade/Honeycomb
Laser Tube	Reci/YONGLI
Chiller	CW-5200 Chiller
Engraving Speed	0-1200mm/s
Cutting Speed	0-600mm/s
Engraving Depth	0.1-1 mm
Working Temperature	0-45°C
File Format Supported	PLT, DXF, AI, BMP and RLD
Applicable Material	Acrylic, Wood, Leather, Cloth, Cardboard, MDF

Cutting Capacity

Power	Acrylic	Wood	MDF	Polycarbonate
80 ~ 100w	10mm	10mm	5mm	2mm
100 ~ 130w	15mm	13mm	7mm	3mm
130 ~ 150w	20mm	18mm	10mm	5mm
150 ~ 180w	22mm	20mm	12mm	8mm
300W	30mm	25mm	20mm	15mm

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.





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