

PRODUCT

DATA SHEET



Bending
Cutting
Welding
Marking

2025-2026

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

HT-7050

CO2 LASER CUTTING & ENGRAVING MACHINE

T-SERIES



Precision Machining:
Split-bed design prevents deformation, ensuring consistent accuracy and long-term stability.

Advanced Structure:
6063-T5 aluminum beam & integrated gears offer a lightweight, dust-proof, and durable build.

Fire Protection:
Fire-resistant materials and safety devices minimize risks for secure industrial operation.

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

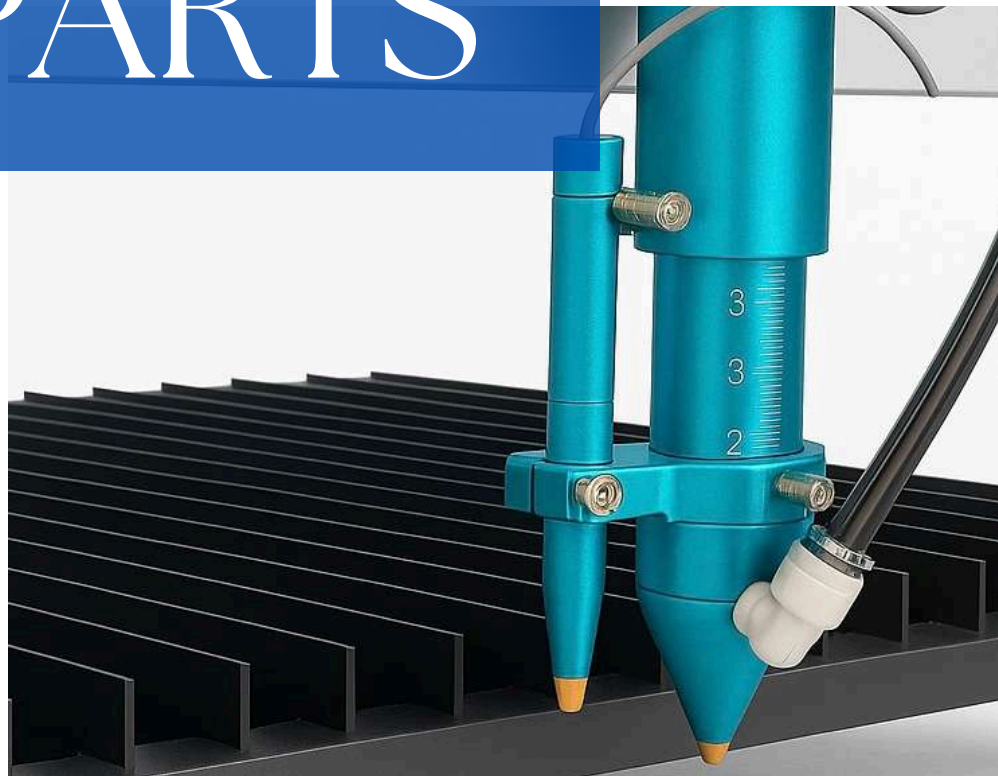
AUTOFOCUS LASER HEAD

(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-3000 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.



CONTROL PANEL

CENTRALIZES ALL KEY FUNCTIONS FOR ONE-STOP OPERATION.

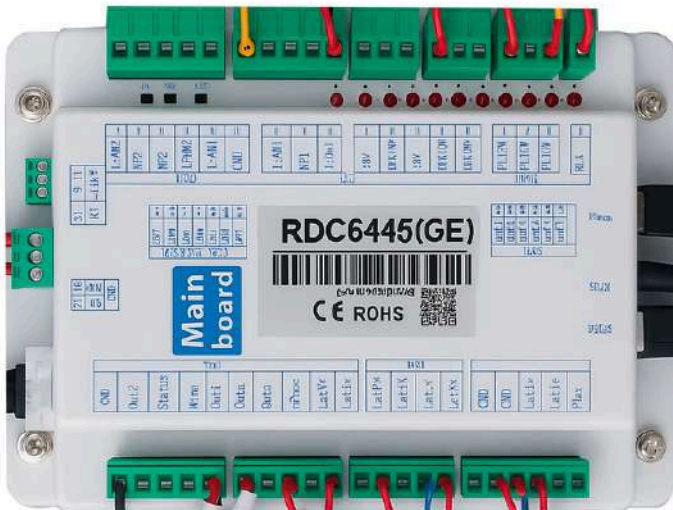
ENABLES INTUITIVE EDITING AND REAL-TIME MONITORING VIA A TOUCHSCREEN.

STORES AND RECALLS MATERIAL-SPECIFIC SETTINGS FOR CONSISTENT RESULTS.



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.



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.

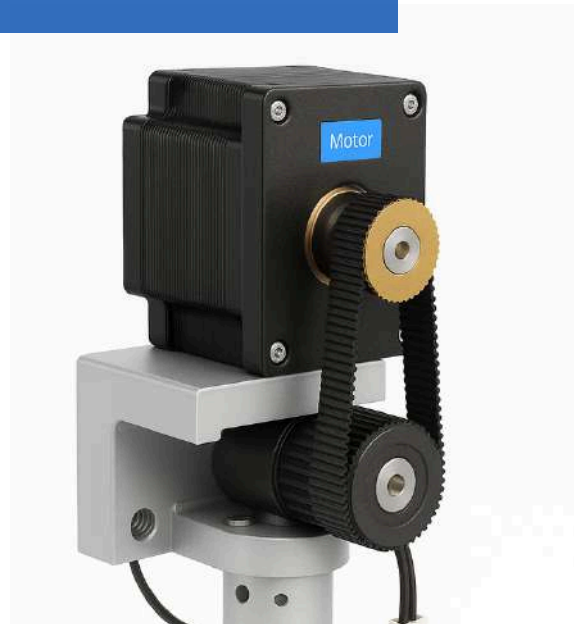
ENABLES FAST ACCELERATION AND DECELERATION FOR COMPLEX DESIGNS.

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	700*500mm
Package Size	175*102*73cm (1.3m ³)
Package Weight	280KG
Laser Power	60w/80-100w
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	YONGLI
Chiller	CW-3000 Chiller
Engraving Speed	1000mm/s
Cutting Speed	0-600mm/s
Engraving Depth	0.1-1 mm
Working Temperature	15-30°C
File Format Supported	JPG PNG BMP DXF PLT DSP DWG
Applicable Material	Acrylic, Wood, Leather, Cloth, Cardboard, MDF

Cutting Capacity

Power	Acrylic	Wood	MDF	Foam
60w	Surface engraving only	Surface engraving only	Surface engraving only	Surface engraving only
80 ~ 100w	5mm	5mm	3mm	10mm

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 operated by 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