

PRODUCT

DATA SHEET



Bending
Cutting
Welding
Marking

2024-2025

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

HT QCW

LASER TABLE WELDING MACHINE

T-SERIES



High Efficiency with Low Energy & Maintenance Costs

HT750W consumes only about 1 kWh per hour. Its "pump source + fiber + fully sealed laser module" design eliminates traditional consumables such as crystals, lamps, and mirrors, reducing long-term maintenance costs.

Faster Welding Speed & Superior Weld Quality
QCW technology delivers high peak power with low heat input, resulting in deeper penetration, minimal heat-affected zones, reduced deformation, and smooth, strong welds. It supports various metals such as stainless steel, galvanized steel, iron, and titanium.

Flexible Operation & Easy to Use

The dual-mode design allows both fixed workstation welding and handheld welding with an 8-meter cable. The combination of a large workbench and handheld flexibility makes it ideal for both large structural parts and small complex components.



QCW LASER SYSTEM

THE QCW LASER SOURCE AND CHILLER ARE INTEGRATED INTO A SINGLE COMPACT UNIT, ENABLING THE ENTIRE SYSTEM TO OPERATE AS A SINGLE MOBILE MODULE.

THIS DESIGN MAKES THE MACHINE EASY TO MOVE, INSTALL, AND ADAPT TO DIFFERENT WORKSTATIONS, WHILE ENSURING STABLE COOLING AND CONSISTENT LASER PERFORMANCE. IT REDUCES SPACE REQUIREMENTS AND GREATLY IMPROVES OVERALL CONVENIENCE AND MOBILITY IN DAILY OPERATION.

PARTS

CCD CAMERA SYSTEM

THE MACHINE COMES STANDARD WITH A CCD CAMERA SYSTEM, FEATURING 10X MAGNIFICATION, CROSSHAIR POSITIONING, AND RED LIGHT POSITIONING, OFFERING A MORE USER-FRIENDLY EXPERIENCE.

CCD CAMERAS ARE DURABLE AND RELIABLE, CAPABLE OF WITHSTANDING HARSH INDUSTRIAL CONDITIONS.



PARAMETER SYSTEM

PRECISE PARAMETER CONTROL: THE INTERFACE OFFERS VARIOUS ADJUSTABLE SETTINGS, SUCH AS LASER POWER, FREQUENCY, AND PULSE TIME, ALLOWING OPERATORS TO FINE-TUNE THE MACHINE BASED ON MATERIAL AND WELDING REQUIREMENTS FOR OPTIMAL RESULTS.



WELDING FLEXIBILITY

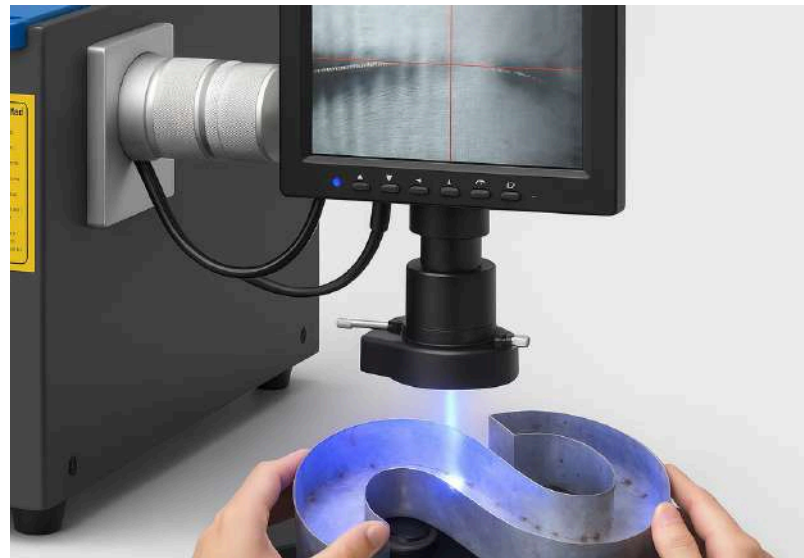
THE MACHINE SUPPORTS FULLY INDEPENDENT HANDHELD WELDING THROUGH AN 8-METER CABLE, GIVING OPERATORS EXCEPTIONAL MOBILITY AND FREEDOM OF MOVEMENT.

THIS FLEXIBILITY MAKES IT IDEAL FOR WORKING ON LARGE, BULKY STRUCTURES THAT CANNOT BE EASILY POSITIONED ON A WORKSTATION, AS WELL AS SMALL, DETAILED, OR COMPLEX COMPONENTS THAT REQUIRE PRECISE CONTROL.

WORKBENCH WELDING

THE DUAL-MODE DESIGN ALSO SUPPORTS FIXED WORKBENCH WELDING BY CONNECTING THE LASER CABLE DIRECTLY TO THE TABLE.

THIS SETUP PROVIDES GREATER STABILITY, PRECISION, AND REPEATABILITY, MAKING IT ESPECIALLY SUITABLE FOR PROCESSING SMALL, INTRICATE COMPONENTS AND LETTERING WORK. IT ENSURES ACCURATE POSITIONING, CONSISTENT WELD QUALITY, AND HIGHER EFFICIENCY FOR DETAILED OR REPETITIVE TASKS.



PARTS



FOLDABLE DUAL WINGS

THE FOLDABLE DUAL-WING DESIGN OF THE WELDING TABLE OFFERS A FLEXIBLE FOOTPRINT, EXPANDING WHEN NEEDED AND FOLDING FOR SPACE-SAVING WHEN NOT IN USE.

IT ALSO HAS A COMPACT TRANSPORT SIZE, MAKING IT EASY TO MOVE AND STORE, IDEAL FOR LIMITED OR FREQUENTLY CHANGING WORKSPACES.

Technical Parameters

Laser Power	750W
Working Size-Dual-wing Open	200*160*119cm
Working Size-Dual-wing Folded	96*160*119cm
Packing Size	176*112*140cm
Packing Weight	300KG
Laser Wavelength	1080nm
Maximum Single Pulse Energy	30 J
Welding Penetration Depth	0.1-3 mm
Pulse Width	0.2-50 ms
Laser Welding Frequency	1-100Hz
Fiber Cable Length	8m
Peak Power	2KW
Input Voltage	Single-phase 220V ± 10% 50/60Hz
Laser Stroke	200mm
Targeting and Positioning	CCD synchronized HD image + Red light
Applicable Material	Galvanized sheets, Stainless steel etc.

Welding Capacity

Power	Galvanized	Stainless steel
750W	0.2-2mm	0.2-3mm

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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