

PRODUCT DATA SHEET



Bending
Cutting
Welding
Marking

2024-2025

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

HT FWT

FIBER LASER TABLE WELDING MACHINE

T-SERIES



Special Design for Channel Letters

Engineered specifically for aluminum, stainless steel, and galvanized channel letters, delivering perfect seams even on complex fonts and tight corners. Optimized table structure ensures stable positioning and effortless operation for signage professionals.

Strong, Clean & Gap-Free Welding

Produces strong, clean, and durable welds with zero gaps. Dual-oscillation technology guarantees smooth, aesthetic results on thin and thick materials alike, minimizing post-processing and ensuring consistent letter quality..

No Gas, No Wire & Zero Requires no welding wire and no special gas for most signage applications—reducing operational cost. Simple operation system allows even users with zero welding experience to achieve professional, high-precision welds from day one.



MAX MFSC LASER

THE MAX MFSC LASER IS A COMPACT, HIGH ELECTRO-OPTICAL CONVERSION EFFICIENCY, AND STABLE FIBER LASER. THE PRODUCT FEATURES ADVANCED OPTOELECTRONIC DESIGN, OFFERING ADVANTAGES SUCH AS EXCELLENT WELDING RESULTS AND COMPATIBILITY WITH VARIOUS BUS SYSTEMS.

IT IS WIDELY USED IN LASER WELDING, LASER CLADDING, LASER BRAZING, AND LASER SURFACE HEAT TREATMENT, AMONG OTHER APPLICATIONS.

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.

USER-FRIENDLY INTERFACE: THE SIMPLE AND INTUITIVE DISPLAY ENABLES EASY ADJUSTMENTS VIA THE TOUCHSCREEN, COMPLEMENTED BY PHYSICAL BUTTONS FOR QUICK CONTROL. THIS DESIGN ENHANCES USER EXPERIENCE, STREAMLINING OPERATIONS AND REDUCING THE LIKELIHOOD OF ERRORS.



PARTS



CHILLER SYSTEM

CUSTOM-DESIGNED CHILLERS IN WELDING MACHINES PROVIDE HIGH COOLING CAPACITY, ENSURING STABLE OPERATION DURING EXTENDED WELDING SESSIONS. THEY PREVENT OVERHEATING AND MAINTAIN CONSISTENT WELD QUALITY.

TAILORED FOR ENERGY EFFICIENCY AND DURABILITY, THESE CHILLERS HANDLE HARSH ENVIRONMENTS, REDUCING MAINTENANCE NEEDS AND EXTENDING OPERATIONAL LIFE. THIS RESULTS IN INCREASED PRODUCTIVITY AND REDUCED DOWNTIME.



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.

PARTS

MODE ADJUSTMENT SYSTEM

THE SYSTEM OFFERS VARIOUS MODE ADJUSTMENTS (E.G., CIRCULAR, TRIANGULAR, ETC.), ENSURING THE WELD SEAM IS AESTHETICALLY PLEASING, SMOOTH, AND HIGHLY DURABLE.

IT IS WIDELY USED FOR PRECISION WELDING OF METALS SUCH AS ALUMINUM PLATES, ALUMINUM PROFILES, GALVANIZED SHEETS, IRON PLATES, STAINLESS STEEL, AND TITANIUM PLATES.



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	1500W/2000W
Working Size-Wings Extended	200*160*119cm
Working Size-Wings Folded	96*160*119cm
Packing Size	176*112*140cm
Packing Weight	300KG
Maximum Laser Power	1500W/2000W
Laser Wavelength	1070nm
Laser Type	Continuous
Pulse Width	1-50ms
Continuous Laser Welding Frequency	1-100Hz
Spot Mode	9 options including triangular, circular, etc.
Peak Power	≤6KW
Input Voltage	Single-phase 220V ± 10% 50/60Hz
Laser Stroke	≥200mm
Targeting and Positioning	CCD synchronized HD image + Red light
Applicable Material	Aluminum plates, Galvanized sheets, Stainless steel etc.

Welding Capacity

Power	Aluminum	Galvanized	Stainless steel
1500w	0.2-3mm	0.2-4mm	0.6-4mm
2000w	0.2-4mm	0.2-6mm	0.6-6mm

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



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