

PRODUCT

DATA SHEET



Bending
Cutting
Welding
Marking

2024-2025

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

HT3

CHANNEL LETTER BENDING MACHINE



Fully Automated High-Efficiency Production
Integrates automatic feeding, slotting, bending, and adjustable cutting depth into one computer-controlled process with one-click operation.

Superior Precision and Quality
Advanced systems like the double-blade alternate bending and precise slotting ensure consistently accurate bends that align perfectly with CNC-cut faces and backs.

Versatile Material Compatibility
The machine can process a variety of strip materials including stainless steel, flat aluminum, galvanized strips, and iron strips.

SOFTWARE

DEVELOPED IN-HOUSE FOR CONTINUOUS IMPROVEMENT. THE BUILT-IN MATERIAL DATABASE STORES BENDING PARAMETERS FOR DIFFERENT MATERIALS AND SPECIFICATIONS, AUTOMATICALLY APPLYING OPTIMAL SETTINGS TO ENSURE ACCURATE, CONSISTENT BENDING WHILE REDUCING MANUAL ADJUSTMENT AND ERRORS. DESIGNED FOR EFFICIENCY AND PRECISION.



DRIVER

A FULLY INTEGRATED BENDING SYSTEM

FEATURES PROPRIETARY SOFTWARE AND DRIVERS FOR ABSOLUTE CONTROL OVER FEEDING, CUTTING, AND BENDING.

UNLOCK SPECIALIZED FUNCTIONS LIKE MULTI-POINT GROOVING AND TOOL COMPENSATION.



PARTS



MOTORS

THE BENDING MACHINE'S MOTOR PROVIDES CONSISTENT, STRONG POWER FOR FEEDING, CUTTING, AND BENDING, ENSURING SMOOTH OPERATION UNDER HEAVY WORKLOADS AND IMPROVING PRODUCTIVITY.

THE MOTOR WORKS WITH THE CNC SYSTEM FOR ACCURATE BENDING AND FEEDING, DELIVERING PRECISE RESULTS WHILE REDUCING ENERGY USE AND LOWERING OPERATING COSTS.



BENDING SYSTEM

DOUBLE BLADE ALTERNATE BENDING SYSTEM

SUITABLE FOR STAINLESS STEEL, FLAT ALUMINUM, GALVANIZED STRIPS, AND IRON STRIPS.

SCRATCH-FREE AND MARK-FREE BENDING SURFACE, CAPABLE OF BENDING VERY SMALL ANGLES WITH HIGH PRECISION.

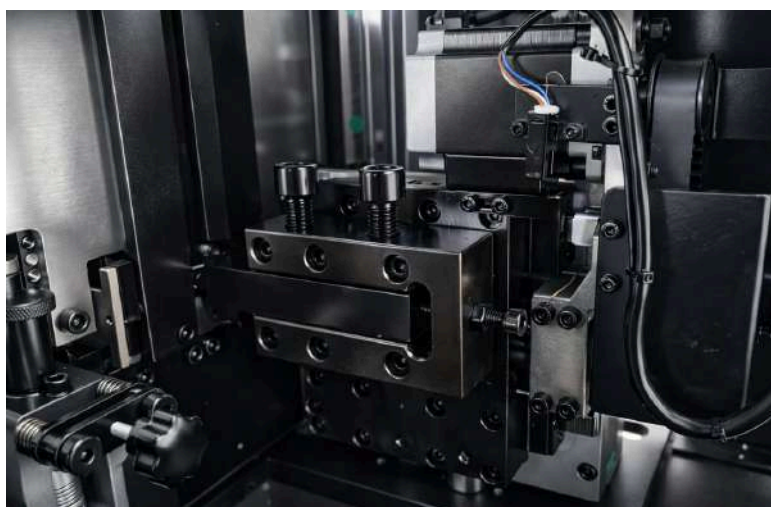
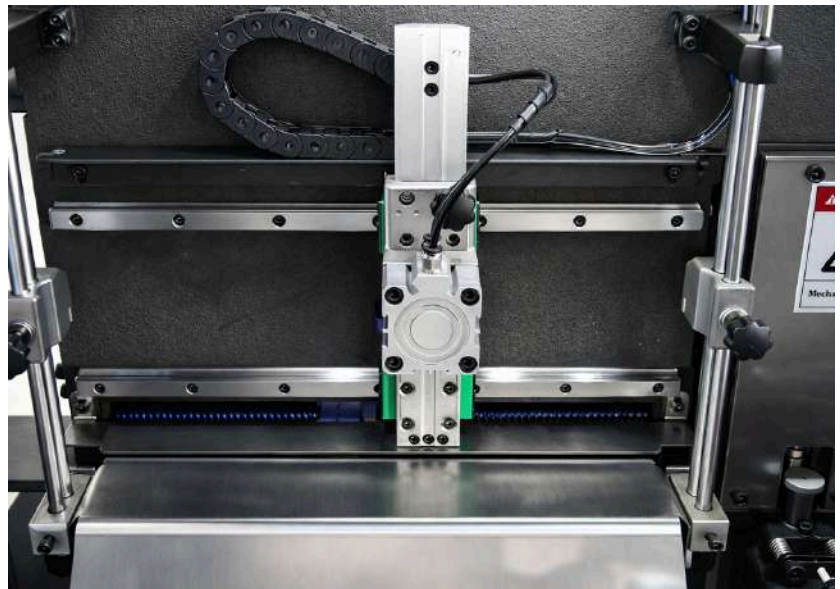
STABLE STRUCTURE WITH CONSISTENT BENDING PRESSURE, ENSURES PERFECT CURVES AND SHARP EDGES ON EVERY LETTER.

PARTS

FEEDING SYSTEM

CIRCULATION CLAMP FEEDING SYSTEM,ENSURES ACCURATE STRIP FEEDING WITH $\pm 0.01\text{MM}$ TOLERANCE.

STABLE OPERATION WITHOUT SLIPPING OR DISTORTION. DESIGNED FOR LONG-TERM PERFORMANCE AND DURABILITY.



CUTTING SYSTEM

STAINLESS STEEL CUTTING IMPORTED CARBIDE PLANER BLADE WITH AUTOMATIC TOOL ALIGNMENT, REINFORCED 2.5 MM LEAD SCREW, AND SERVO DRIVE FOR FAST, STABLE, AND PRECISE CUTTING.

Technical Parameters

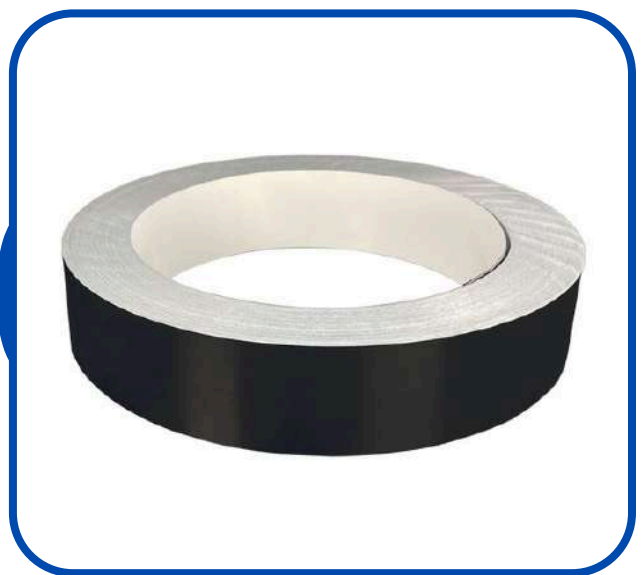
Slotting System	Planer knife slotting system
Bending System	Double blade alternate bending system
Feeding System	Circulation clamp feeding system
Working Voltage	Single Phase AC 220V,50/60Hz
Cutting Depth Calibration	Automatic by software
Size Accuracy	±0.1mm
Material Height	20~130mm, (Optional: 220mm)
Material Thickness	0.3 ~1.2mm, (Optional: 2mm)
Minimum Bending Radius	R≥3.5mm
Input File Format	DXF
Packing Size	160*81*170cm (2.3m ³)
Packing Weight	400kg
Applicable material	Stainless steel, Flat aluminum, Galvanized strips, and Iron strips



STAINLESS STEEL

AVAILABLE PROCESSING SIZES: 3CM UP TO 13CM

APPLICABLE MATERIAL



FLAT ALUMINUM COILS

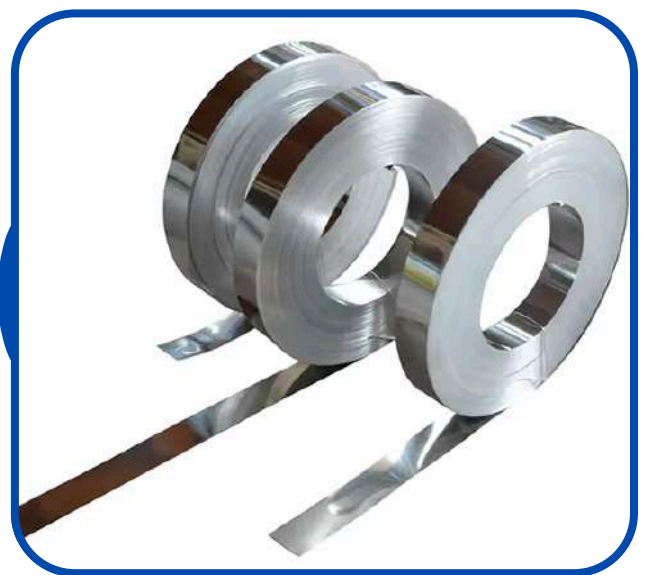
AVAILABLE PROCESSING SIZES: 3CM UP TO 13CM



GALVANIZED STRIPS

AVAILABLE PROCESSING SIZES: 3CM UP TO 13CM

APPLICABLE MATERIAL



IRON STRIPS

AVAILABLE PROCESSING SIZES: 3CM UP TO 13CM

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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