

PRODUCT

DATA SHEET



Bending
Cutting
Welding
Marking

2025-2026

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

HT1

CHANNEL LETTER BENDING MACHINE

N SERIES



Automatic Calibration
Cutting Depth Adjustment
by Software
Suitable for All Types of
Aluminum Strips and
Profiles

Ability to Cut and Create
Cutting Lines at Different
Angles
360-Degree Milling Cutter for
Front and Back Cutting
High-Precision and Stable
Operation

Smooth Feeding
Mechanism
Accurate Angle Detection
Consistent Performance
with Minimal Maintenance



BENDING SOFTWARE

DEVELOPED IN-HOUSE FOR CONTINUOUS IMPROVEMENT.

MULTI-POINT GROOVING, CONTOUR OFFSET, GLUE WEIGHT & AREA CALCULATION, TOOL RADIUS COMPENSATION, MATERIAL MEMORY, AND ONE-CLICK MATERIAL CHANGE.

DESIGNED FOR EFFICIENCY AND PRECISION.

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.



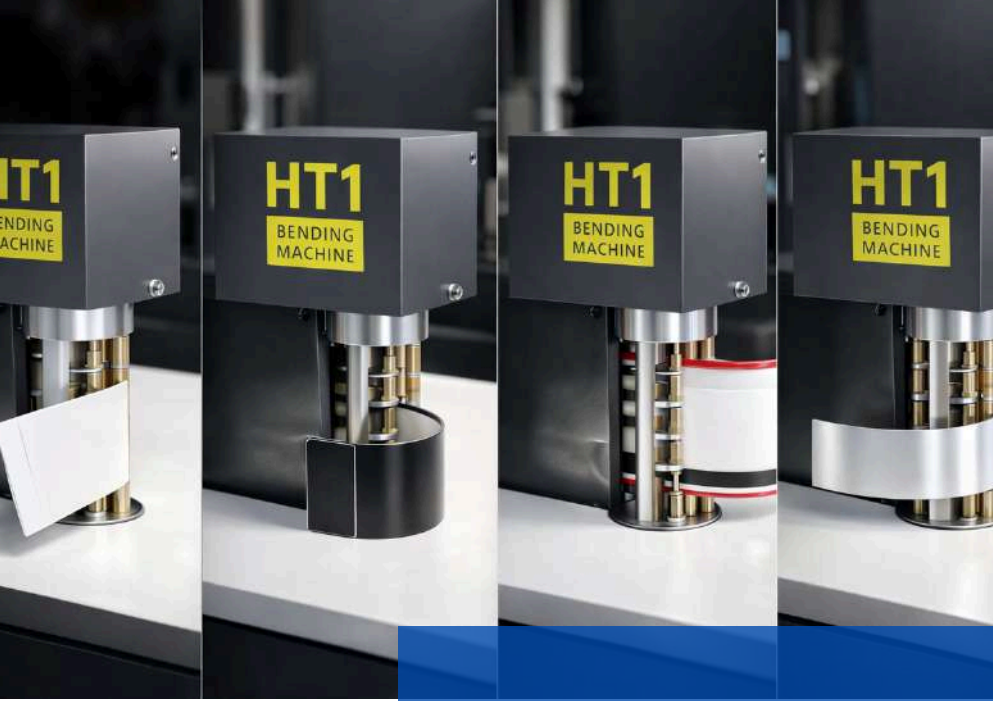
PARTS



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

GROOVED CYLINDER DESIGN FOR SMOOTH BENDING, SUITABLE FOR ALL TYPES OF ALUMINUM STRIPS AND PROFILES, 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

HIGH-PRECISION FEEDING SYSTEM WITH GROOVED ROLLERS, MADE OF HIGH-QUALITY ABS AND ALUMINUM MATERIALS. THE ENCODER ENSURES ACCURATE STRIP FEEDING WITH $\pm 0.01\text{MM}$ TOLERANCE, STABLE OPERATION WITHOUT SLIPPING OR DISTORTION, SMOOTH AND CONSISTENT MOVEMENT FOR ALL STRIP TYPES, DESIGNED FOR LONG-TERM PERFORMANCE AND DURABILITY.



CUTTING SYSTEM

75MM BLADE DIAMETER WITH 10 CUTTING HEADS, 2.0 SQUARE GUIDE RAIL FOR ENHANCED STABILITY DURING OPERATION

AUTO-ANGLE RECOGNITION WITH FRONT/BACK OSCILLATING MOTION, MOTORIZED HEIGHT ADJUSTMENT, AND AUTOMATIC DEPTH CONTROL VIA SOFTWARE

REINFORCED 4-COLUMN STRUCTURE FOR STEADY, HIGH-QUALITY CUTS



Technical Parameters

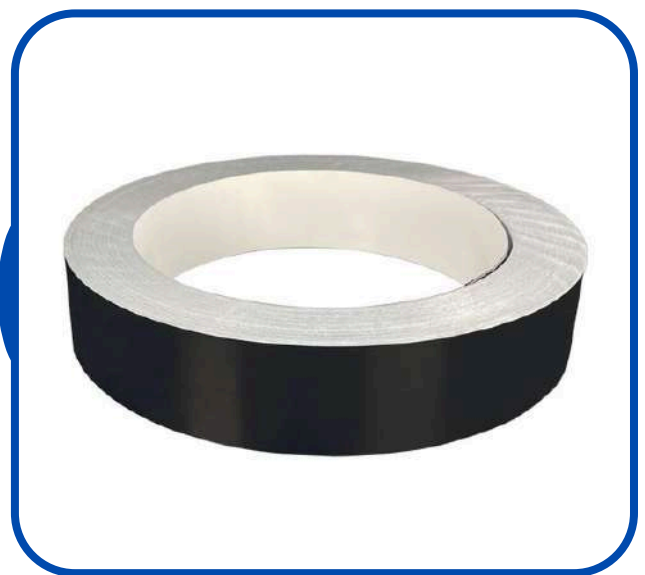
Slotting System	Milling cutter
Bending System	Double rod linkage bending method
Feeding System	Rolling feeding device
Working Voltage	Single Phase AC 220V,50/60Hz
Cutting Depth Calibration	Automatic by software
Size Accuracy	±0.1mm
Material Height	20~130mm
Material Thickness	0.3 ~1.2mm
Minimum Bending Radius	R≥10mm
Input File Format	DXF/AI/PLT
Packing Size	137*66*152cm (1.4m³)
Packing Weight	350kg
Applicable material	Letterume, Single Edge Aluminum, Flat Aluminum, Aluminum Extrusion Profile



LETTERUME (LET-R-EDGE STYLE COIL)

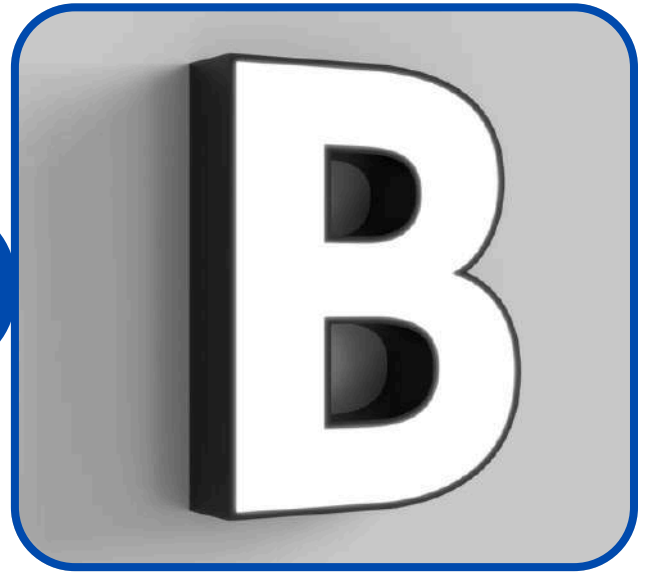
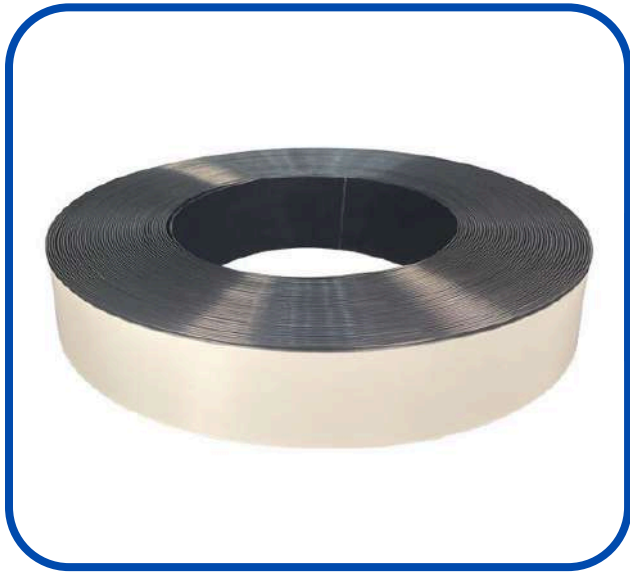
CHANNEL LETTER WITH SPONGE AND PVC
AVAILABLE PROCESSING SIZES: 5CM/7CM/9CM/11CM

APPLICABLE MATERIAL



FLAT ALUMINUM COILS

AVAILABLE PROCESSING SIZES: 2CM UP TO 13CM



SINGLE EDGE COILS

AVAILABLE PROCESSING SIZES: 6CM UP TO 12CM

APPLICABLE MATERIAL



TRIMLESS PROFILE

AVAILABLE PROCESSING SIZES: 5/8/10 CM

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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