

PRODUCT

# DATA SHEET



Bending  
Cutting  
Welding  
Marking

2024-2025

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

# HT6

## CHANNEL LETTER BENDING MACHINE



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

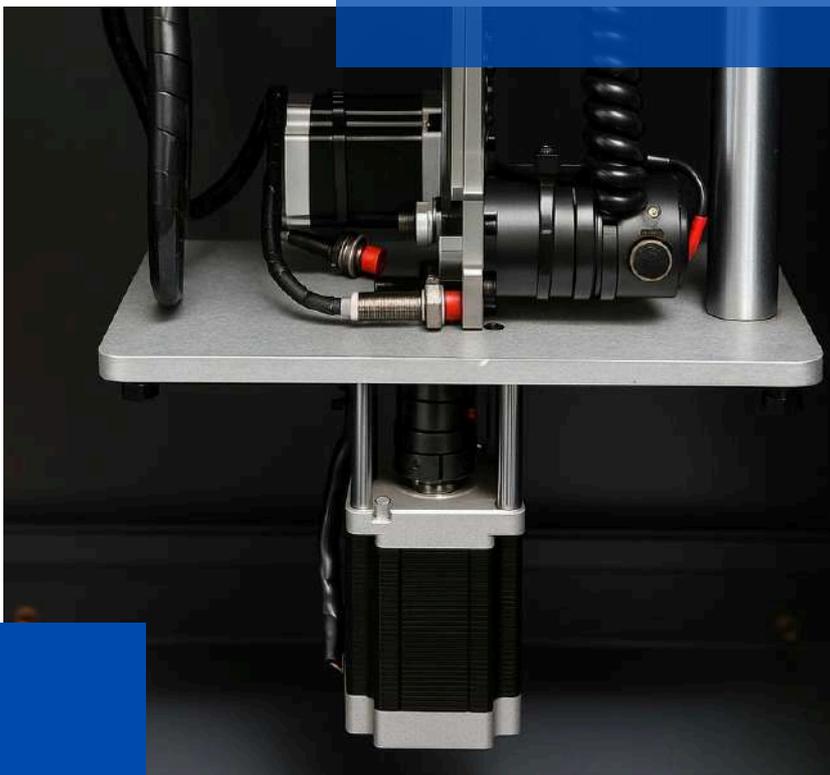
A FULLY INTEGRATED BENDING SYSTEM

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.



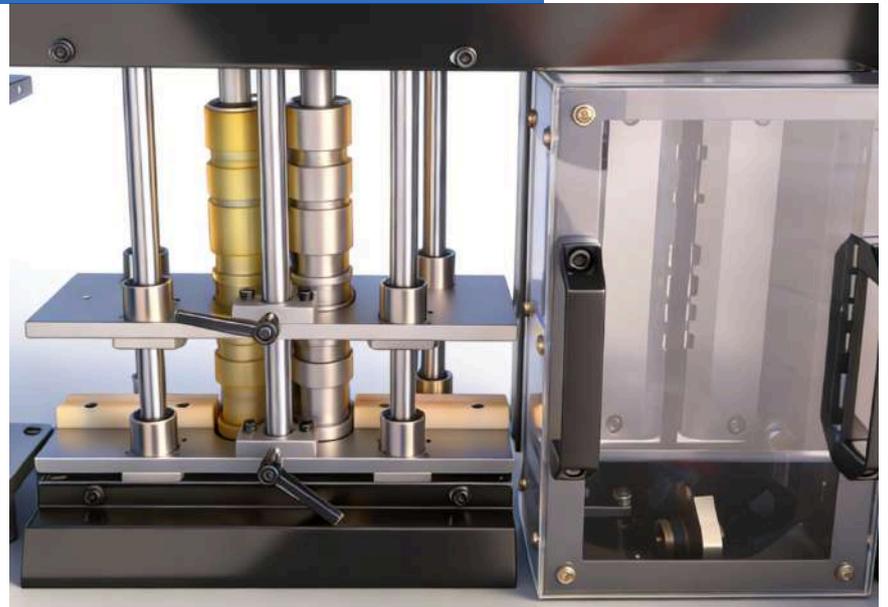
## BENDING SYSTEM

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, 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

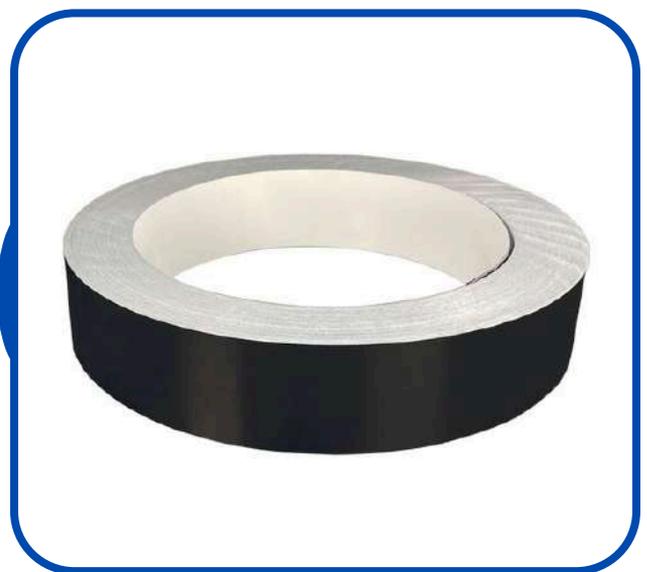
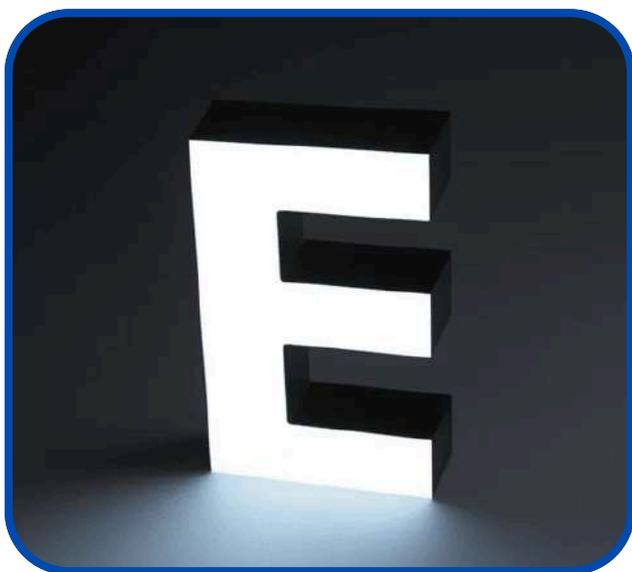
<b>Slotting System</b>	<b>Milling cutter</b>
<b>Bending System</b>	<b>Double rod linkage bending method</b>
<b>Feeding System</b>	<b>Rolling feeding device</b>
<b>Working Voltage</b>	<b>Single Phase AC 220V,50/60Hz</b>
<b>Cutting Depth Calibration</b>	<b>Automatic by software</b>
<b>Size Accuracy</b>	<b>±0.1mm</b>
<b>Material Height</b>	<b>20~180mm</b>
<b>Material Thickness</b>	<b>0.3 ~1.5mm</b>
<b>Minimum Bending Radius</b>	<b>R≥7.5mm</b>
<b>Input File Format</b>	<b>DXF/AI/PLT</b>
<b>Packing Size</b>	<b>228*80*192cm(3.5m<sup>3</sup>)</b>
<b>Packing Weight</b>	<b>560kg</b>
<b>Applicable material</b>	<b>Letterume, Single Edge Aluminum, Flat Aluminum, Aluminum Trim Cap and Return Bar</b>



## LETTERUME (LET-R-EDGE STYLE COIL)

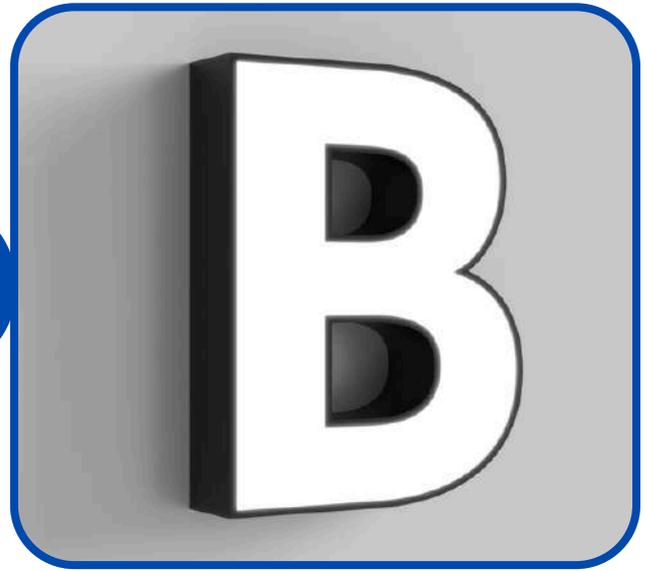
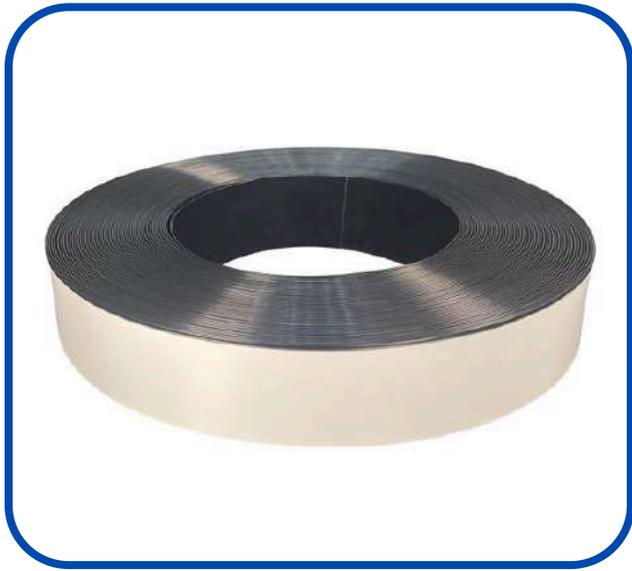
CHANNEL LETTER WITH SPONGE AND PVC  
AVAILABLE PROCESSING SIZES: 5CM/7CM/9CM/11CM

## APPLICABLE MATERIAL



## FLAT ALUMINUM COILS

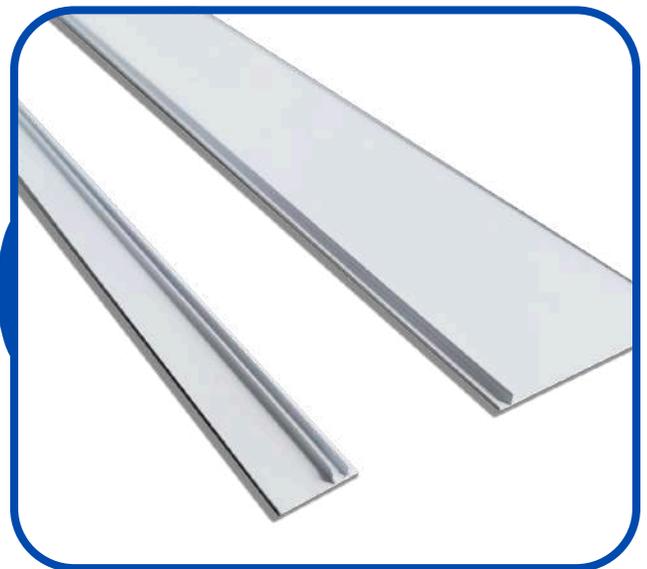
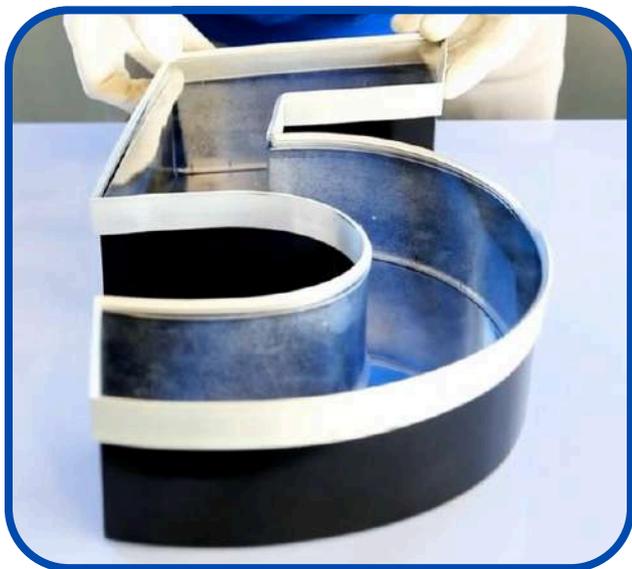
AVAILABLE PROCESSING SIZES: 2CM UP TO 18CM



## SINGLE EDGE COILS

AVAILABLE PROCESSING SIZES: 6CM UP TO 12CM

# APPLICABLE MATERIAL



## TRIM CAP AND RETURN BAR

AVAILABLE PROCESSING SIZES: 2.5CM/8 CM

# ABOUT US

BUILD . TO LEAD .



Based in Weifang, Shandong, our modern manufacturing base covers over 12,000 m<sup>2</sup> 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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