

# PRODUCT DATA SHEET



Bending  
Cutting  
Welding  
Marking

2025-2026

HIGHTECH INDUSTRY GROUP

BUILD . TO LEAD .

# HTS1

## CHANNEL LETTER BENDING MACHINE



COMPACT & EASY TO OPERATE  
COMPACT SIZE AND SMALL  
FOOTPRINT MAKE IT EASY TO  
TRANSPORT AND IDEAL FOR IN-STORE  
FABRICATION. SIMPLE SETUP AND  
OPERATION DELIVER EXCELLENT VALUE  
FOR MONEY. SPECIALLY DESIGNED  
FOR PROCESSING ALUMINUM LETTERS

ADVANCED CUTTING & BENDING  
SYSTEM  
PLANER-BLADE CUTTING ENSURES  
A CLEAN, DEBRIS-FREE FINISH WITH  
LOWER NOISE. CARBIDE INSERT  
BLADES ARE LOW-COST, STABLE,  
EASY TO REPLACE, AND LONG-  
LASTING.

PRECISION & RELIABLE FEEDING  
A CLOSED-LOOP DETECTION  
SYSTEM ENSURES PRECISE  
FEEDING LENGTH, KEEPING THE  
FINISHED PRODUCT WITHIN  
 $\leq 0.1\text{MM}$  TOLERANCE OF THE  
SOURCE FILE.



## 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.

## PRECISION DRIVER

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

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



# PARTS

## INTEGRATED BOARD

THE ALL-IN-ONE CONTROL BOARD INTEGRATES EVERY CORE FUNCTION CIRCUIT OF THE BENDING MACHINE INTO A SINGLE UNIFIED SYSTEM, SIMPLIFYING WIRING AND REDUCING FAILURE POINTS.

WITH INDUSTRIAL-GRADE RELAYS, STABLE POWER SUPPLY MODULE, AND PRECISE PARALLEL PORT CONNECTIONS, IT ENSURES RELIABLE SIGNAL TRANSMISSION, FASTER TROUBLESHOOTING, EASY MAINTENANCE, AND LONG-TERM OPERATIONAL STABILITY.



## FEEDING SYSTEM

THE FEED ROLLER IS MORE STABLE, WITH AN EASIER-TO-ADJUST STRUCTURE AND IMPROVED DURABILITY. IT FEATURES BUILT-IN BALL BEARINGS, REDUCING RESISTANCE FOR SMOOTHER, MORE CONSISTENT FEEDING.



# PARTS



## CUTTER SYSTEM

EQUIPPED WITH A PLANER-TYPE CUTTING BLADE FOR CLEAN, DEBRIS-FREE CUTTING AND REDUCED NOISE. THE BLADE USES SOLID CARBIDE INSERTS, OFFERING LOW COST AND STABLE CUTTING PERFORMANCE. THE BLADE SYSTEM IS EASY TO REPLACE AND BUILT FOR A LONG SERVICE LIFE.

## BENDING SYSTEM

UPGRADED ARC BENDER — THE BENDING COPPER SHAFT IS NOW THINNER. THE NEW DESIGN GIVES THE BENDER A WIDER RANGE OF MOTION, ALLOWING IT TO BEND SMALLER CURVES AND CREATE MORE COMPLEX LETTER SHAPES/FONTS.





## ENCODER

THE ENCODERS FEATURE A DURABLE MECHANICAL STRUCTURE DESIGNED. HIGH-RESOLUTION OPTIONS WITH STABLE PULSE OUTPUT AND STRONG ANTI-INTERFERENCE CAPABILITY.

CLOSED-LOOP DETECTION SYSTEM ENSURES PRECISE FEED LENGTH CONTROL, KEEPING THE DEVIATION BETWEEN THE FINISHED PRODUCT AND THE ORIGINAL FILE WITHIN  $\leq 0.1\text{MM}$ .

## MATERIAL RACK

THE MATERIAL RACK IS FULLY INTEGRATED WITH THE MACHINE FOR A STABLE, RIGID STRUCTURE. ITS ROTATING PLATFORM ALLOWS 360° FREE ROTATION FOR QUICK LOADING AND UNLOADING.

MULTIPLE GUIDE POSTS SECURELY HOLD THE PROFILE IN PLACE, PREVENTING SLIPPAGE DURING FEEDING, ENSURING SMOOTHER MATERIAL FLOW AND HIGHER PROCESSING ACCURACY.



# PARTS

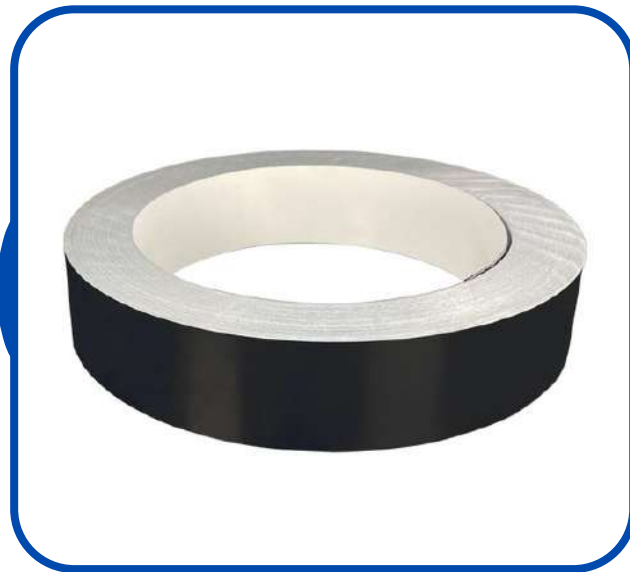


## MOTORS

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

# Technical Parameters

|                           |                                   |
|---------------------------|-----------------------------------|
| Slotting System           | Planer 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           | ≤100mm                            |
| Material Thickness        | 0.3 ~0.8mm                        |
| Minimum Bending Radius    | R≥5mm                             |
| Input File Format         | PLT/DXF                           |
| Assembled Dimensions      | 150X50X150cm                      |
| Packing Size              | 120X68X145cm (1.2m³)              |
| Packing Weight            | 182kg                             |
| Applicable material       | Flat Aluminum                     |



## TRIMLESS ALUMINUM LETTERS

AVAILABLE PROCESSING SIZES: UP TO 10CM

## APPLICABLE MATERIAL



## TRIM CAP ALUMINUM LETTERS

AVAILABLE PROCESSING SIZES: UP TO 10CM

# 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.





# CONTACT US



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