



CNC 2D WIRE BENDING MACHINE

2–6 mm wire capacity

3-AXIS CNC TECHNOLOGY

Precision wire forming for repeatable 2D components, frames, brackets, hooks, clips and custom profiles.

BUILT FOR ACCURACY • SPEED • REPEATABILITY

Machine Overview

The CNC 2D wire bending machine is designed for continuous wire feeding and programmable bending of wire from 2 mm to 6 mm. A rigid machine structure, guided wire path and CNC-controlled bending sequence provide consistent production of repeated components. Tooling and drive configuration can be customized for the wire grade, bend radius and production requirement.

01	2–6 mm wire range Suitable for a broad range of light-to-medium wire forming jobs.
02	3-axis CNC control Programmable multi-axis motion for accurate 2D profiles.
03	Fast setup Accessible tooling area for setup, adjustment and maintenance.
04	Repeatable production Stored programs help maintain consistent part geometry.
05	Custom tooling Bending pins, guides and tooling can be selected for the job.
06	Operator friendly Designed for straightforward production operation and adjustment.

Technical Specification

Machine type	CNC 2D wire bending machine
Wire diameter	2–6 mm
Controlled axes	3 axes
Bending mode	Programmable 2D wire forming
Wire material	Selected according to tooling and machine configuration
Tooling	Application-specific bending / guide tooling
Control	CNC programmable operation
Machine construction	Heavy-duty fabricated frame with sheet-metal enclosure
Customization	Tooling, feed system, control and layout can be customized

Note: Final machine specifications such as maximum bend angle, minimum bend radius, feed speed, motor power and finished-part dimensions depend on the selected tooling, wire material and customer configuration. Confirm these values before ordering.

Machine Design & Working Area



Production-focused layout

The photographed machine uses a broad working table with a central forming area, accessible tooling and a dedicated control enclosure. The open work area allows easy inspection of the wire path and finished components.

Key design points

- Rigid base and enclosure
- Accessible bending tooling
- Guided wire movement
- CNC programmable sequence
- Safety guarding around moving areas
- Service-friendly machine layout

Configuration can be adapted to the customer's component size, tooling and production volume.

Typical Applications

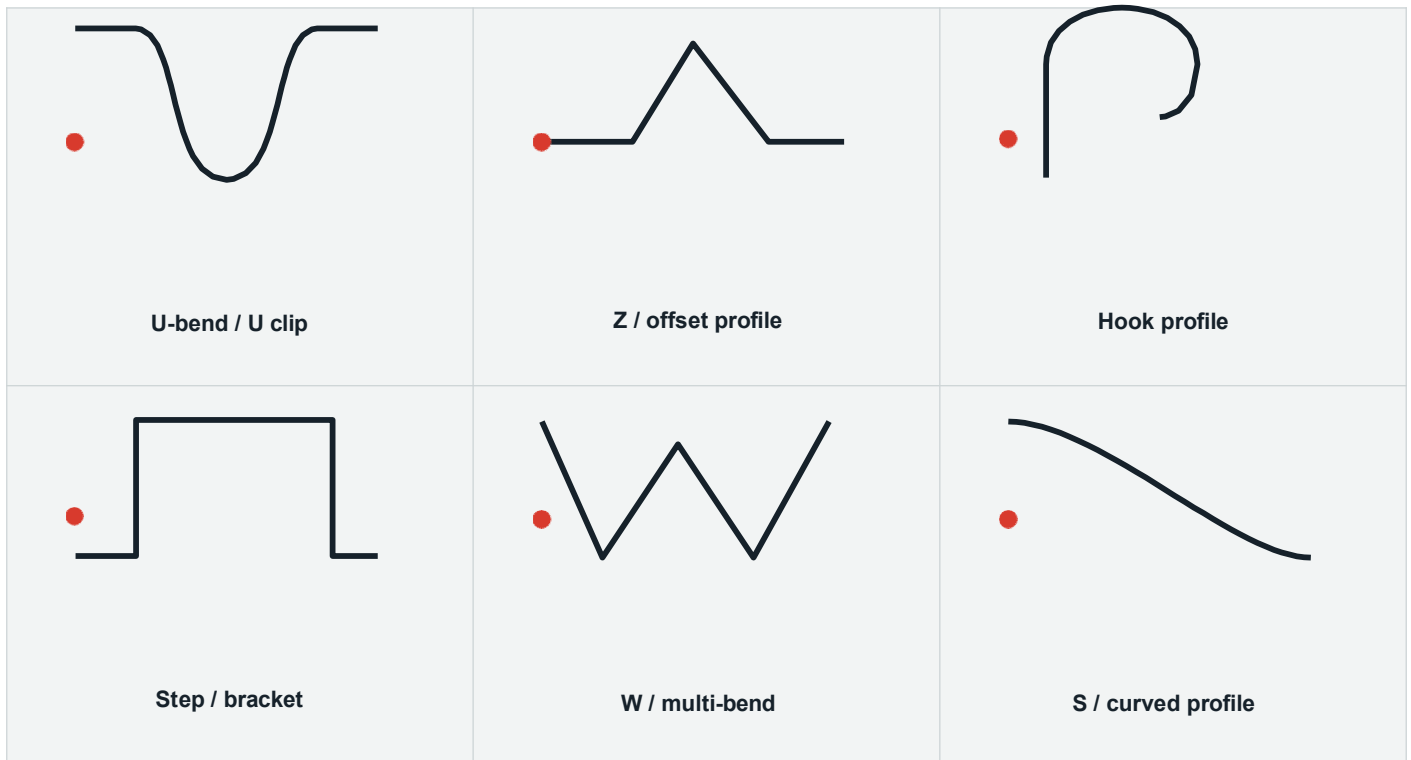
Clips & hooks	Frames	Brackets
Rings & loops	Furniture wire parts	General 2D profiles

Recommended Workflow

1	Load wire	Feed the selected wire through the guide and forming area.
2	Select program	Call the required CNC bending program.
3	Run forming cycle	Machine feeds and bends the wire according to the programmed profile.
4	Inspect part	Check dimensions, bend angles and repeatability.
5	Continue production	Repeat the stored cycle for consistent batch production.

2D Bending Possibilities

The following schematic examples illustrate the types of 2D profiles that can be programmed. Actual minimum radius, dimensions and production speed depend on wire diameter, material, tooling and machine setup.



Why Choose This Machine

Precision Programmable CNC movement for repeatable geometry.	Flexibility Multiple 2D shapes can be stored and recalled.	Productivity Designed for repeat production with reduced manual handling.
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ORDER / ENQUIRY — Share your wire diameter, material, component drawing, target production quantity and required bend dimensions for a machine and tooling proposal.

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