DIWIRE PRO
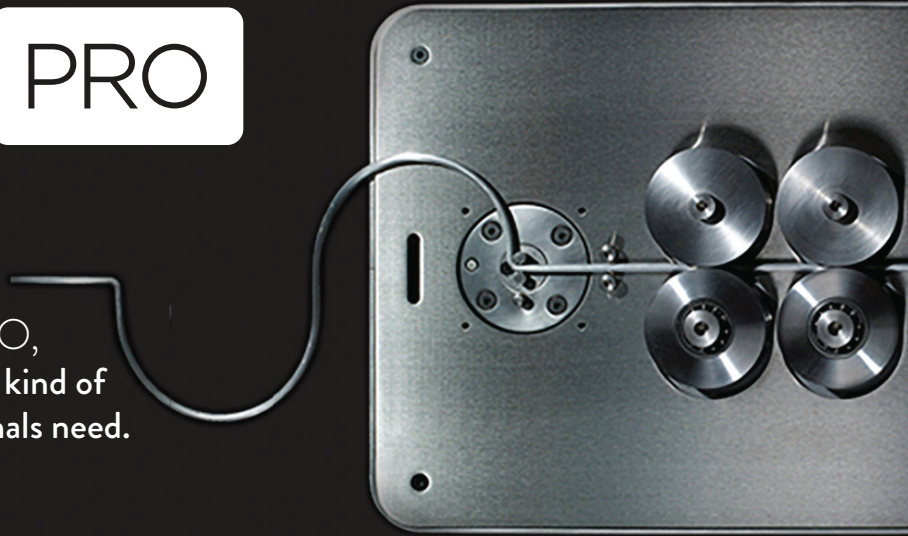## BY PENSA LABS

INTRODUCING THE D.I.WIRE PRO,
our newest **CNC** wire bender, offering the kind of power, speed, and precision that professionals need.

WHAT CAN THE D.I.WIRE PRO DO FOR ME ?

Fully configurable and affordable, the D.I.Wire Pro solves your prototyping or small batch production needs.

- **INCREASE PRODUCTIVITY**
  Achieve more throughput per person.

- **INCREASE ACCURACY AND REPEATABILITY**
  Eliminate operator fatigue, error.

- **CAPTURES EXPERT KNOWLEDGE AND SKILL**
  New employees are productive right away.

- **SAVE MONEY AND TIME**
  Run small jobs yourself instead of contracting.

- **PERFECT PROTOTYPE**
  Before setting up a large production machine.

The bend mechanism that delivers smooth, tight radius curves — from fine orthodontic retainer wire to stainless steel parts.

BASIC TECH SPECS
Capabilities & Requirements

WIRE CAPABILITIES
Wire diameters: choose from 0.028" to 0.188" (0.7-4.8mm).
Maximum bend angle: 180°.

MATERIALS
A range of materials, from stainless steel to high carbon steel, low carbon steel, copper, brass, jacked wire, strap and aluminum.

SOFTWARE
Software included - the software interprets vectors, scripts or G-code, while compensating for the wire properties to create accurate parts.

POSITION ACCURACY
Feed: +/- 0.004" (0.1mm)
Bend Pin: +/-0.5°
Feed rate: about an inch per second

MACHINE
Dimensions: 16.25" x 11.25" x 13" (41 x 29 x 33 cm)
Weight: 100 lbs (Shipping Weight: 125 lbs)
Operating Temperature: 15-30°C, 59-86°F
Power Req: 100-240 V, 1.8 A, 50/60 Hz

Contact - For more information or to place an order, please email info@aetlabs.com

AΣTLabs
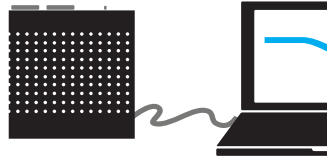
DIWIRE PRO
BY PENSA LABS

HOW DOES IT WORK?

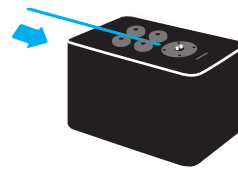**The workflow for D.I.Wire PRO is simple and straightforward.**

1 DRAW CURVE
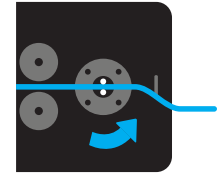Use any 2D vector creation software to design your shape. Create SVG from your CAD or design in Wireware.

2 CONNECT VIA USB & OPEN WIREWARE
Connect D.I.Wire PRO and computer via USB and open Wireware to start a new bend project or open saved bends.

3 LOAD WIRE
Load your wire. DIWire PRO allows you to create custom material profiles that compensate for each material's properties.
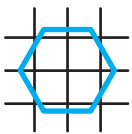
4 BEND
DIWire PRO makes bump bends, smooth curves, and 3D bends using manual rotations.

HOW DO I USE WIREWARE?

The software is easy to use and allows for high level of control when needed.

PATH MODE
Path Mode - create shapes or import an SVG file. You can manipulate points using an interactive interface to adjust scale, feed length, bend angles, and curve resolution.

SCRIPT MODE
Script Mode - program shapes using conversational script commands that compensate for the material properties, or directly control the machine using G-code.

CALIBRATION MODE
Calibration Mode - learn and save the material's spring back properties to create accurate parts.

HOW IS THE D.I.WIRE PRO DIFFERENT FROM THE D.I.WIRE?

The D.I.Wire PRO is designed with professional applications in mind.

- **MORE POWER:** bend stainless steel up to 0.188".

- **GREATER PRECISION AND CONTROL** to within 0.5°.

- **MORE SHAPE CAPABILITIES:** bend up to 180° with close parallels; smooth curves can be coded for repeatability, sharper inside radii.

- **MORE MATERIAL OPTIONS:** customizable for wire sizes from 0.028" to 0.188", aluminum, brass, variety of steels, jacketed, and more.

- **MORE OPTIONS FOR MATERIAL PROFILES:** customizable bend pins, mandrels, and more; can work with round or rectangular wire, and customizable for strap or tube.