



BY PENSALABS



INTRODUCING THE D.I.WIRE PLUS
Bends wire, tube & rod for rapid prototyping
and short run production.

WHAT CAN IT DO FOR ME ?

The D.I.Wire Plus is the improved version of our original machine. With all new software, the D.I.Wire Plus bends more shapes with improved accuracy.

The D.I.Wire Plus comes with its own smart bending software, Wireware 2.0. The software is easy to use and allows for high level of control when needed. Wireware 2.0 offers two ways to produce bent shapes: In Path mode, graphically create shapes or import SVG files. In Script Mode, create complex programs using conversational script or G-code.

The D.I.Wire Plus addresses the needs of STEM education, as well as short run production, prototyping and just-in-time manufacturing for industries ranging from aerospace, automotive, medical, to consumer products. High-quality wire part fabrication has never before been this accessible.



BASIC TECH SPECS

CAPABILITIES

Wire diameters: 0.0625" or 0.125" (1.6mm or 3.2mm).

MAXIMUM BEND ANGLE

135°, material dependent

MATERIALS

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

SOFTWARE

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

MACHINE

Dimensions: 9.5"x14.5"x6.75" (24x37x17cm)

Power Requirements: 100-240 V, 1.8 A, 50-60 Hz

Weight: 23lbs, 13oz. (10.5kg)

Operating temp: 64-82F (15°-30° C)

Shipping dimensions: 19"x14"x11", 28lbs

START BENDING

D.I.Wire Plus Starter Kit:

D.I.Wire + CNC Wire Bender

Feed wheels and bend heads for

0.125" and 0.0625" (1.6mm or 3.2mm).

Wireware Software

One Year Warranty (extended warranties available)

D.I.Wire Plus Tool Kit

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

AET Labs

Learn more @ PENSALABS.COM

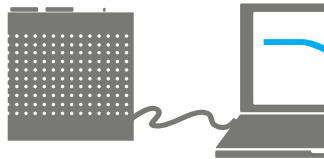
HOW DOES IT WORK?

The workflow for D.I.Wire Plus is simple and straightforward



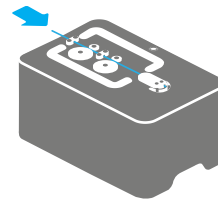
1 DRAW CURVE

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



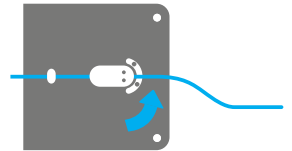
2 CONNECT VIA USB & OPEN WIREWARE

Connect D.I.Wire Plus and computer via USB and open Wireware to start a new bend project or open saved shapes.



3 LOAD WIRE

Load your wire. D.I.Wire Plus allows you to create custom material profiles that compensate for each material's properties.

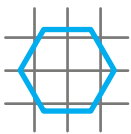


4 BEND

D.I.Wire Plus makes bump bends, smooth curves, and 2.5D bends using manual rotations.

HOW DO I USE WIREWARE 2.0?

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.

FAQ'S

How is the D.I.Wire Plus different from the first D.I.Wire V1?

With all new software, you now have more control and improved accuracy. Bend repeatable, smooth shapes in Script Mode, and perfect your output with the Action List in Path mode.

What software programs have been used for designing wire objects?

Wireware works like a printer driver. Any software that outputs SVG files can be used to create shapes. We use Adobe Illustrator, but any CAD can create 2D files that can convert to SVG.

Why isn't there a 3rd axis on the D.I.Wire Plus?

3D curves are not possible to bend with this style machine without the wire intersecting the machine or table during the bend process. Even for curves that are possible, many will sag or twist under their own weight, which throws off shape.