TECH SPECS

- Wire diameters: 0.04” to 0.1875”, 1mm to 4.7mm, material dependent
- Maximum bend angle: 135 degrees, material dependent
- Size: 9.5”x14.5”x6.75”
- Power Requirements: 100-240 V, 1.8 A, 50-60 Hz
- Weight: 23lbs, 13oz.
- Operating temp: 64-82F
- Warranty: one year. Extended warranty available.

AVAILABILITY

EDU Bundle
- 1/8” & 1/16” feed wheels, bend heads
- Wireware Software
- 2-year Extended Warranty
- Wire Starter Supply

FAQ

What software programs have been used for designing wire objects?

Wireware works like a printer driver. Takes a SVG or DXF file created from any software program that outputs them. We have been using Adobe Illustrator to create the SVGs, Autocad for DXF.

Why isn’t there a 3rd axis on the DIWire?

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. This is also why most production wire forms are flat curves assembled into 3D shapes. 3D software is more expensive and has a steep learning curve as compared to 2D software.

CONTACT

Website: www.PensaLabs.com
Facebook: fb.com/PensaLabs
Email: DIWire@PensaLabs.com
Twitter: @ThinkPensa
Instagram: @PensaLabs

DIWIRE

BY PENSA LABS

THE FIRST DESKTOP WIRE BENDER

Bends wire, tube & rod for rapid prototyping, short-run production

WHAT IT DOES

ONE OF A KIND
The only machine that bends lines. Integrates well with laser cutters, routers, and 3D printers which create planes & volumes

INFINITE POSSIBILITIES
Builds big and in real materials. Open up creative and learning opportunities, especially when used with your other digital equipment.

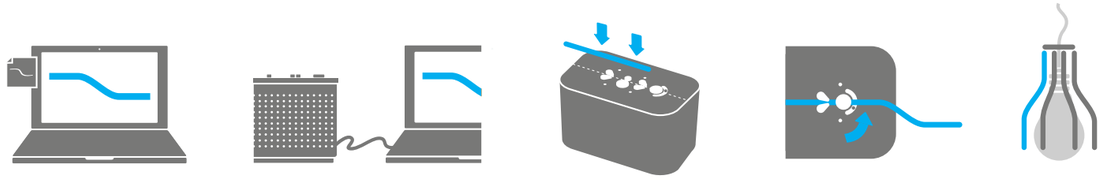
LIGHTNING SPEED
It puts the rapid back in rapid prototyping. Two bend pins offer fast reliable bending.

SAVES TIME & MONEY
Fits between time consuming, non-reproducible hand bending and expensive production machines with large-minimum orders.

MATERIAL VERSATILITY
Bends 0.04" to 0.1875" diameter steel, aluminum, brass, copper, even cold-bend plastics.

EASY AS PIE
Download our software, import your file, and press bend. Easily swap out bend heads and feed wheels to customize your machine.

HOW IT WORKS



1. IMPORT CURVE
Import any SVG or DXF file into our free bending software.

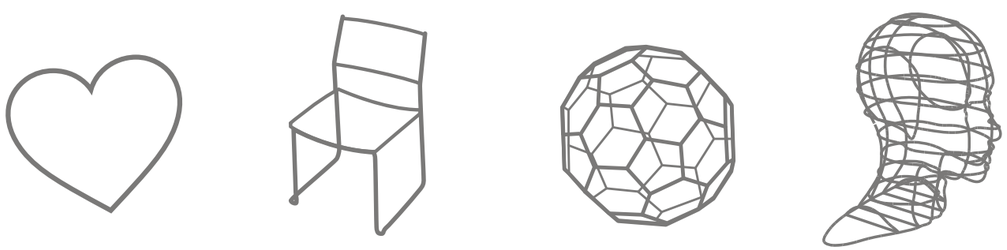
2. CONNECT
Connect DIWire to computer via USB

3. LOAD WIRE
Accommodates wire diameters of 0.04" to 0.1875", 1mm to 4.7mm

4. BEND
Bend wire up to 135 degrees. You can manually adjust files, setting scale, resolution, & bend points.

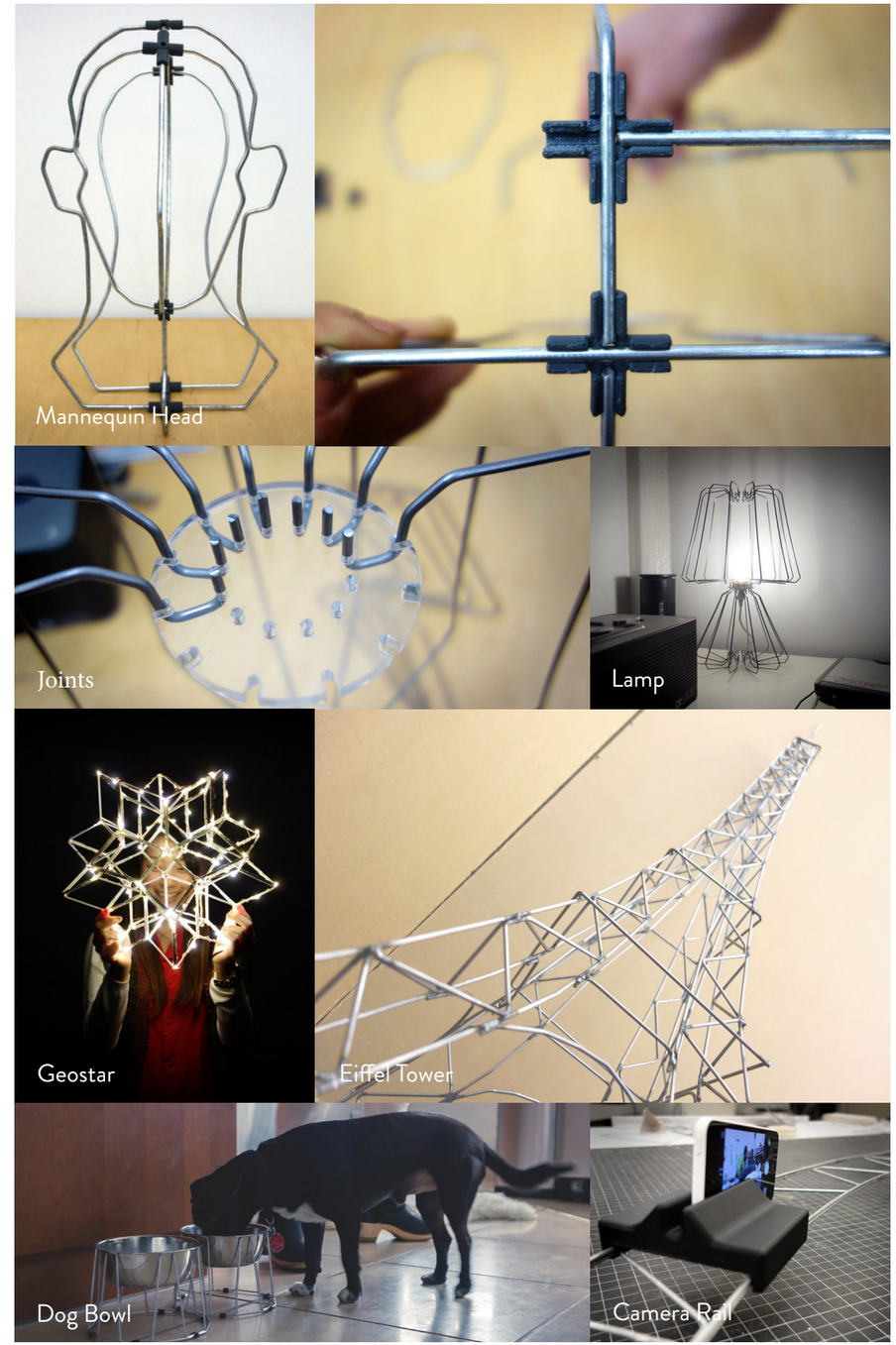
5. ASSEMBLE
Use our printable clips to complete your creation.

WHAT IT MAKES



IT'S SIMPLE
Bend lines, curves and 2D shapes that can be soldered or clipped together to create 3D structures.

IMAGINE



PRINTABLE CLIPS
To help you assemble volumes, patchworks of bent wire and projects involving various materials, we have an assortment of printable clips available. Download files to make 2-way, 4-way, butt, and overlap joints.

JOINERY
To make the most of the equipment in your digital lab, we offer templates for laser cut parts that allow you to assemble wire in tension or compression.

Bendables
Our community sharing site has a variety of seed files to get you bending. Use them to get started or to teach students about design, engineering, and structure. We post new projects every Wednesday. Each "Bendsday" project comes complete with bend files, instructions, and material needs.