

PENSA Develops First Desktop CNC Wire Bender

PENSA, a New York-based design and invention firm <http://pensanyc.com/> has developed the first CNC desktop wire bender that transforms digitally drawn curves and shapes into actual bent wire for ready-to-assemble prototyping or final product: The D.I.Wire Pro <http://www.pensalabs.com/#opening-page>

The machine is a new paradigm for desktop manufacturing and rapid prototyping that has ground-breaking implications for aerospace applications, and many industries that benefit from producing metal parts and fasteners in short-run, customized, just-in-time manufacturing—whether to make or repair parts like fuel injectors—faster, more efficiently and economically than ever.

The portable D.I.Wire can bend materials—including steel, aluminum and brass from the thickest rods to tiniest wires—filling the market gap between time-consuming hand-bending and expensive large-scale, mass production CNC wire bending. Until now, converting lines into bent rods, wires, or tubes quickly, accurately, and continuously was not possible (not even for 3D printers).