

**Streamline Your Wire Bending:**  
Automate your wire bending process to reduce cost & training while increasing your productivity & quality.

**In-House Efficiency:**  
Save money by producing faster & in-house, avoiding supply chain woes.

## Transform your wire bending process

### Configurable

Tooling is customized to your specs, wire size & material

### Automated

Produce thousands of repeatable parts with low labor

### Precise

Accurate parts to your specifications

### Art to part in minutes

Quick programming allows you to create one-off prototypes, patient specific parts or small batch production

### Versatile

One machine adapts to a wide variety different parts & wire sizes

### User-friendly

Intuitive software allows new employees to be productive on the first day

### Benchtop size

Easy to move, accommodates to your space constraints & workflow

### Easy to set up

Plug it in, turn it on, you're up & running quickly

## We make it easy!

- 1 Consultative sales process
- 2 Team training support
- 3 Customer support from our team of experts
- 4 Quick lead times

## About Pensa Labs

We are a team of innovation-driven experts who are passionate about helping businesses to unlock their full potential through automation. Our customers are looking to replace manual methods with a more automated workflow. We provide accessible, precise and configurable digital fabrication solutions that simplify workflows, reduce labor costs, training costs and the loss of institutional knowledge, while creating new possibilities.

We have envisioned a new approach to manufacturing. Our equipment enables both the positives of industrialization (low cost, highly repeatable and accurate parts) as well as the advantages of craftsmanship (bespoke customization and specialization).

## Contact

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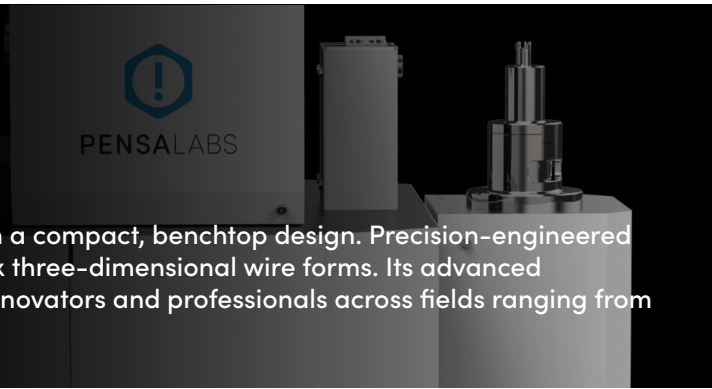
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Learn more at [PensaLabs.com](https://PensaLabs.com)



# C64

This user-friendly 3D wire former, offers unmatched versatility in a compact, benchtop design. Precision-engineered for ease of use, the C64 adeptly handles the bending of complex three-dimensional wire forms. Its advanced technology and intuitive interface make it an essential tool for innovators and professionals across fields ranging from aerospace manufacturing to medical device manufacturing.



## Technical Specs: Capabilities & Requirements

Can it make my part?

**2D + 3D Bends**

**7 full axes of motion** for full control of your part creations

**Bend & Cut Capabilities:** Standard wire diameters: 0.4 mm (0.016") - 6.4 mm (0.250"), for other sizes please inquire

**Collet Driven:** Works with various wire shapes, coatings and even assemblies on the wire

**Die size range:** Standard tooling dies up to 21 mm diameter, for larger dies please inquire

**Tooling:** Configured for your shape and material

**Materials:** A range of materials from stainless steel, spring steel, titanium, cobalt chromes, copper, brass, aluminum and more

\*if your material is anything other than round wire/rod, contact us and we will let you know the bend capability.

How accurate is it?  
Will it make the same part over & over?

**Position Accuracy:**

- Servo motor driven axes: constant motion feedback and correction
- Feed error: < +/- 0.01 mm (0.0004")
- Bend Pin error: +/- 0.2°

How easy is it to use?

**Software:**

- Program in simple script language (Feed, Bend, Rotate)
- Preview the part as you program it
- Preview animation of the bend process to check for intersection
- Vastly improved springback compensation method that is more accurate and easier to setup
- Supports imports of CSV, 3D DXF, 3D IGES

Does it fit within my workflow?

**Machine:**

- Size: 102 cm x 46 cm x 70 cm (40" x 18" x 27.5")
- Weight: 109 kg (240 lbs)
- Power Req: 110/220 V, 450W, 50-60 Hz

Can I expand my automation?

**Automatic cutter:** Integrated cutter bend head tooling configurable up to any size wire between 0.4 mm (0.016") - 6.4 mm (0.250")

When can I get one?

Order now, production lead time is 6-8 weeks

How much does it cost?

Please get in touch with sales for a quote.  
Software with purchase, free for first year.

PENSALABS 



## Contact sales to [learn more!](#)

**Want to see the C64 in motion?**

**Want to learn more about WireWare 3D?**

For more information or to place an order please email [sales@PensaLabs.com](mailto:sales@PensaLabs.com) or visit [PensaLabs.com](https://PensaLabs.com)

## Software: [WireWare 3D](#)

The C64 comes with WireWare 3D, a versatile and easy to use software that is a vital asset in diverse production environments. Its user-friendly interface allows new operators to be productive immediately.

### Designed for Your Application

Caters to various needs, from mass production of the same part to custom part creation every time.

### Real-Time Visualization and Animation

WireWare 3D combines the best of visual and programmatic part creation. Program your parts using an intuitive interface and straightforward command inputs like FEED, BEND, ROTATE and the software renders the part in real-time. Animating the bending operation helps address potential issues before they happen.

### Advanced Algorithms for Material Compensation

Features advanced algorithms that significantly simplify material springback characterization, enabling accurate and quick 'what you see is what you get' results. No need for time consuming adjustments.

### Enhanced Compatibility & Export Options

With support for various import formats (CSV, IGS, DXF) and the ability to export STEP files, WireWare 3D seamlessly integrates with different CAD systems. It's ideal for industries needing wire components as part of larger assemblies.

## Workflow: [Simple & Easy](#)

### Draw Curve

Use WireWare 3D to create your design or import your CSV, IGS, or DXF formats.

### Connect

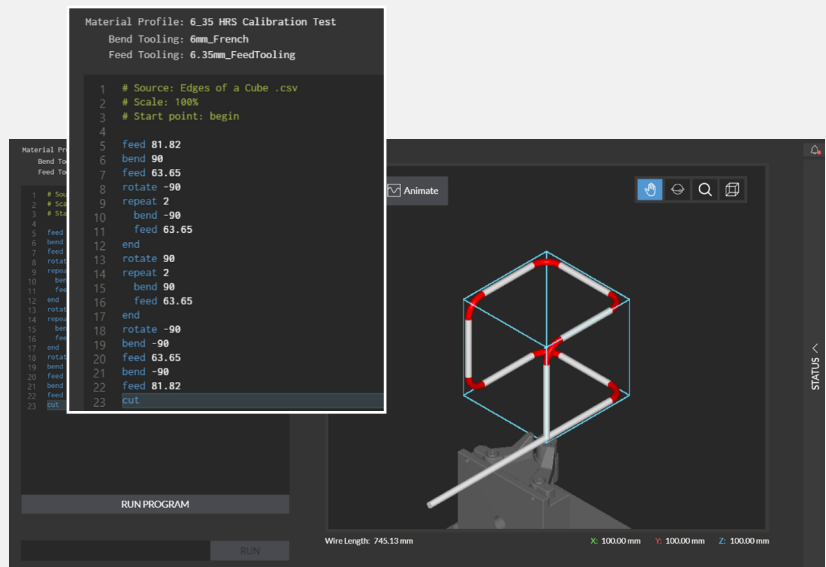
Connect C64 to a computer via USB.

### Load Wire

C64 allows you to create custom material profiles that compensate for material properties.

### Bend

C64 bends and cuts your part.



Check out this video to step through the C64 workflow!