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› DSPIAE Integral Circular Cutter (Model PT-C) Instruction Manual

## DSPIAE PT-C

# DSPIAE Integral Circular Cutter (Model PT-C) Instruction Manual

Precision Cutting Tool for Hobbyists and Modelers

## INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your DSPIAE Integral Circular Cutter (Model PT-C). Please read this manual thoroughly before operating the device to ensure optimal performance and longevity. This tool is designed for precision circular cutting in various materials commonly used in modeling and crafts.

## PRODUCT OVERVIEW

The DSPIAE Integral Circular Cutter (PT-C) is an integrated multi-function tool for easy and precise circular cutting. It features a highly transparent scale panel for visual contact with your work, adjustable pressure for smooth cutting, and a magnetic storage compartment for cutting bits.

### Components Included:

- Integral Circular Cutter (PT-C) x 1
- Tungsten Cutting Bit (45°) x 1
- Anti-slip Pad x 1



**Figure 1:** DSPIAE Integral Circular Cutter (Model PT-C). This image shows the top view of the red and black circular cutter with its clear central cutting mechanism.

## PACKING DETAILS



PT-C

Integral circular cutter \*1, 45° tungsten cutting bit \*1, anti-slip pad



MT-CB

Tungsten cutting bit package is available separately,  
contains 3 bits with 30°, 45° and 60° head each

**Figure 2:** Packaging details for the DSPIAE PT-C. The image displays the product box and mentions the included components: integral circular cutter, tungsten cutting bit, and anti-slip pad. It also shows an optional MT-CB blade package with 3 bits (30°, 45°, and 60°).

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**INTEGRAL CIRCULAR CUTTER**

An ideal circular cutter with all you need



**Figure 3:** Exploded view illustrating the integral design of the DSPIAE Circular Cutter. This image highlights the multi-functional integrated design for simplified circular cutting.

# INTEGRAL DESIGN

New generation of integrated multi-function design for easy circular cutting.



**Figure 4:** The transparent scale panel feature of the DSPIAE Circular Cutter. This allows for clear visual contact with the cutting area, aiding in precise positioning and accuracy.

## KEEP VISUAL CONTACT WITH YOUR WORK

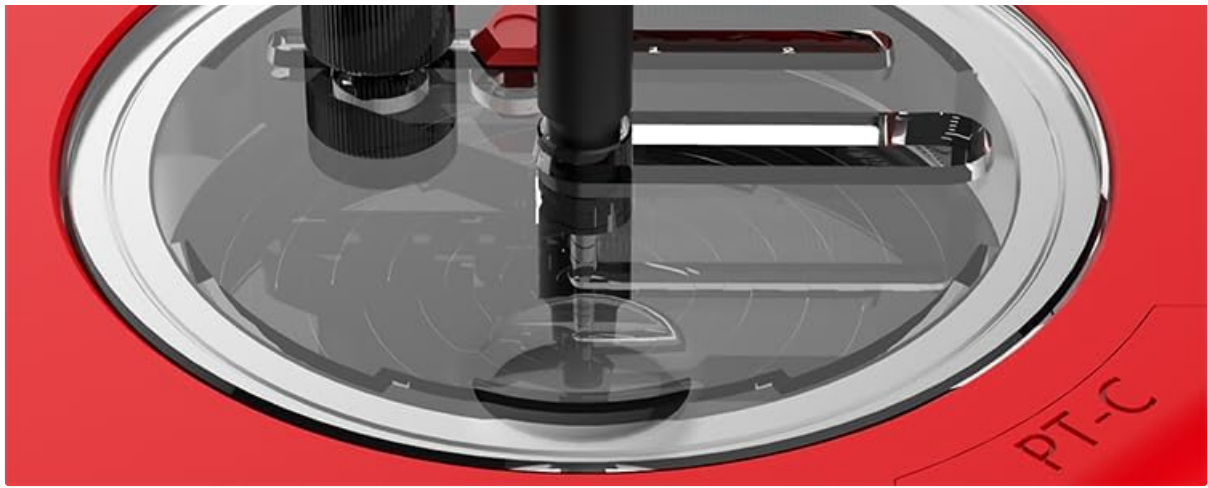
Highly transparent three dimension scale panel with concentric circles for fast, easy cutting. Crystal clear panel allow see-thru visual contact of your work for improved accuracy.



Quick positioning made possible thanks to the clear panel design.

DSPIAE

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**Figure 5:** Magnetic locking storage compartment for cutting bits. This image shows the side compartment designed to securely hold up to three cutting bits, preventing loss or damage.

## Product Features:

- **Integral Design:** New generation integrated multi-function design for easy circular cutting.
- **Visual Contact:** Highly transparent three-dimension scale panel with concentric circles for fast, easy cutting and improved accuracy.
- **Adjustable Pressure:** Coil bit mount with adjustable pressure for added smoothness during cutting.
- **Secure Storage:** Magnetic locking storage compartment keeps cutting bits secure.
- **Tungsten Cutting Bit:** Harder and sharper than standard bits, with a conical end to minimize rotational drag.

## SETUP

Before first use, ensure all components are present and undamaged. The cutter comes with one 45° tungsten cutting bit installed or stored in the magnetic compartment.

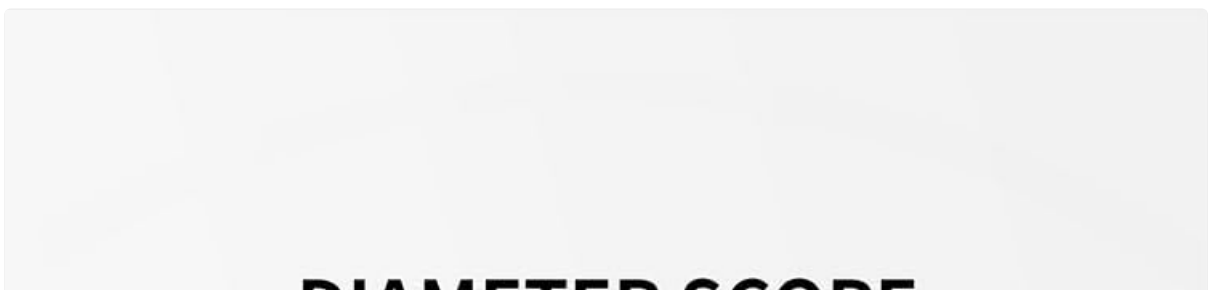
### Installing the Cutting Bit:

1. Carefully open the magnetic storage compartment on the side of the cutter to retrieve a cutting bit, if not already installed.
2. Locate the bit mount in the center of the transparent scale panel.
3. Insert the cutting bit into the mount. The magnetic lock will secure it in place.
4. Adjust the pressure by rotating the black knob on the bit mount. A tighter setting increases cutting pressure.

**Caution:** Cutting bits have sharp edges. Handle with care during installation and manipulation to prevent injury.

### Setting the Cutting Diameter:

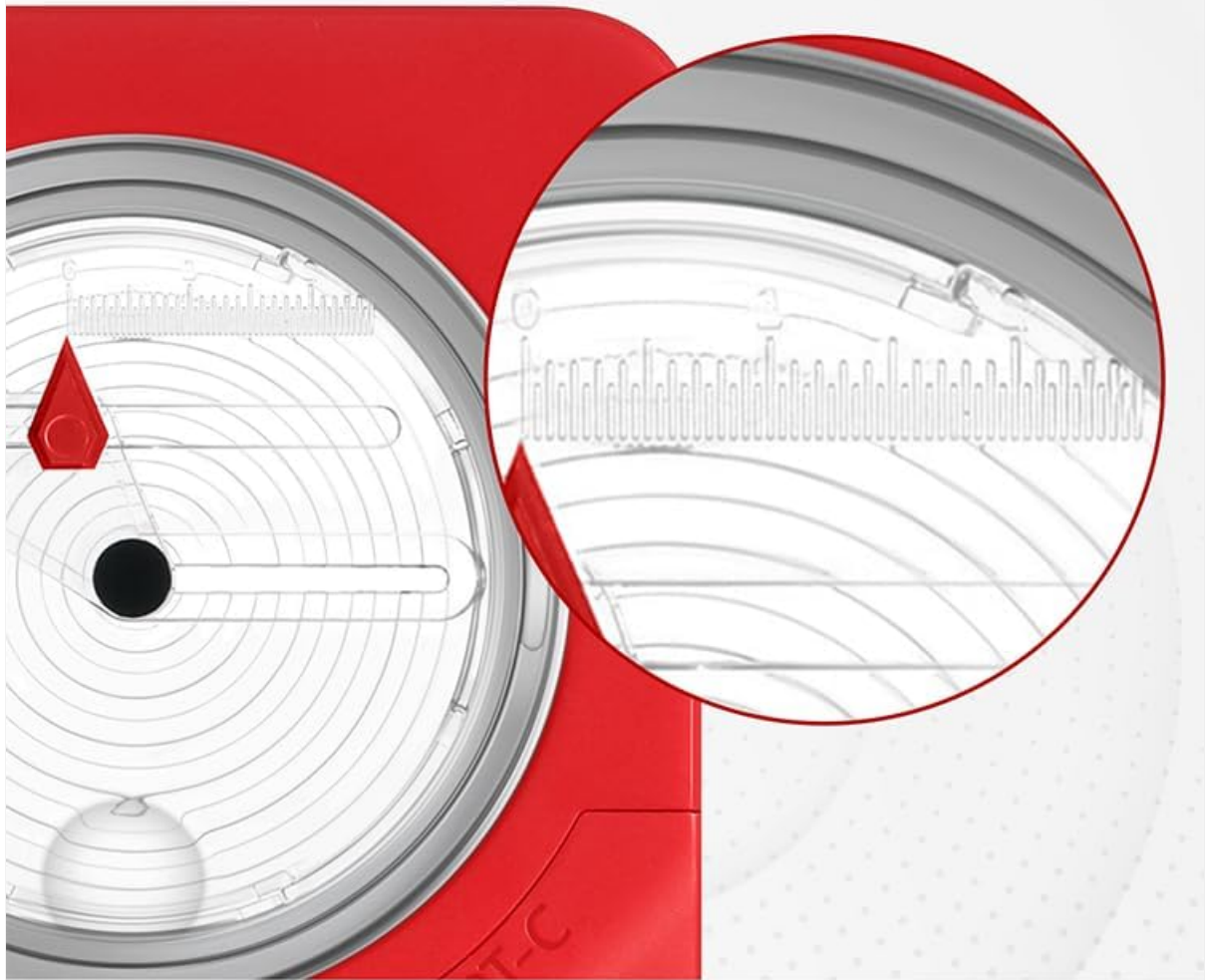
The DSPIAE Integral Circular Cutter can cut circles with diameters ranging from 1mm to 50mm.



# DIAMETER SCOPE

Radius scale allows cutting circles from 1mm up to 50mm.

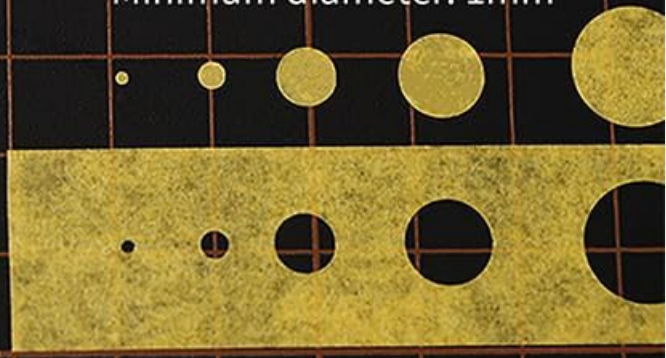
\* Allow approx. 0.1mm tolerance for manual adjustment of radius.



Maximum diameter:  
50mm

Accuracy of circular cutting is hardly assured by freehand works while small details on tiny parts are always difficult. With our stepless circular cutter, all jobs made easy than ever.

Minimum diameter: 1mm

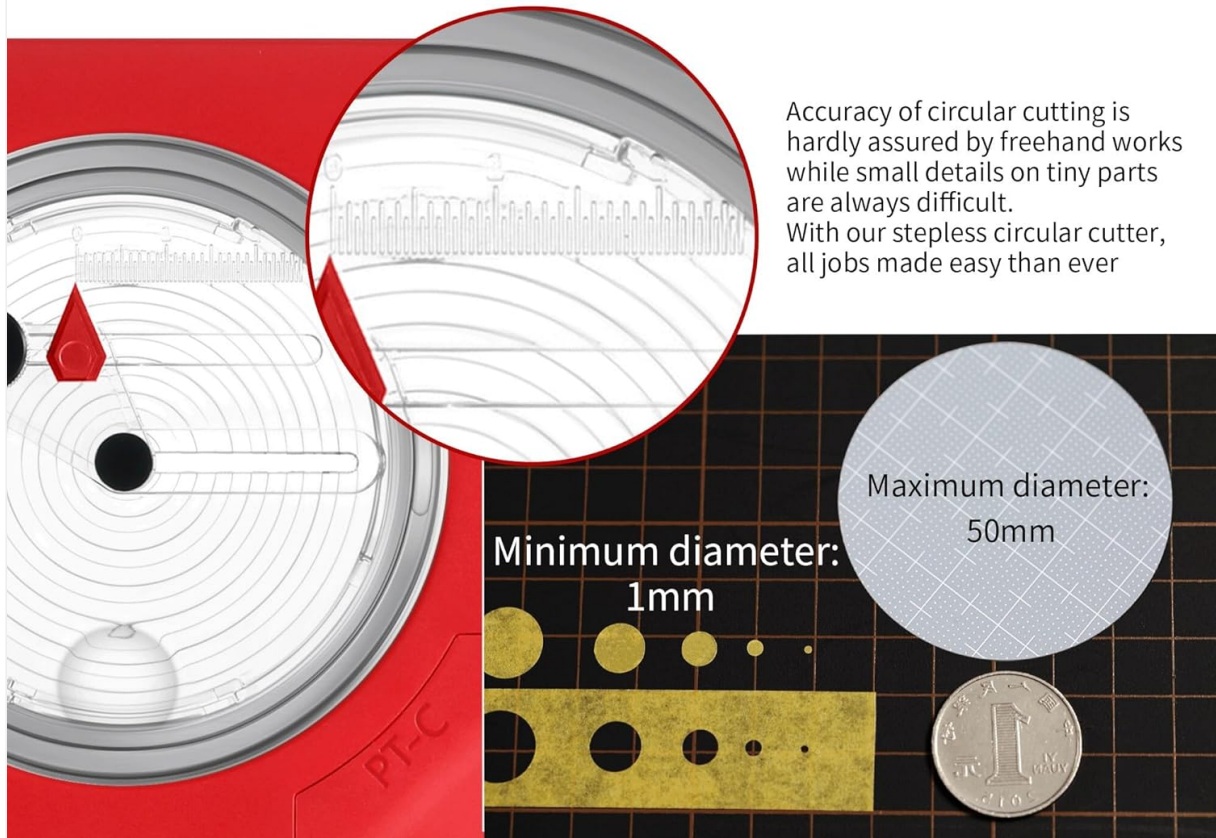


**Figure 6:** Diameter scope and radius scale. This image illustrates the range of circular cutting from 1mm to 50mm diameter, with a detailed view of the radius scale for precise adjustment.

# DIAMETER SCOPE

Radius scale allows cutting circles from 1mm up to 50mm.

\* Allow approx. 0.1mm tolerance for manual adjustment of radius.



Accuracy of circular cutting is hardly assured by freehand works while small details on tiny parts are always difficult. With our stepless circular cutter, all jobs made easy than ever

**Figure 7:** Detailed view of the radius scale. This close-up shows the markings on the transparent panel, allowing for precise radius adjustments. A tolerance of approximately 0.1mm for manual adjustment is noted.

1. Identify the red indicator on the transparent scale panel.
2. Gently slide the red indicator along the scale to set the desired radius. The scale is marked in millimeters.
3. Ensure the indicator is firmly in place at the desired measurement.

## OPERATING INSTRUCTIONS

The DSPIAE Integral Circular Cutter supports both concentric cutting and center positioning cutting.

### General Cutting Procedure:

1. Place the material to be cut on a suitable cutting mat or protective surface.
2. Position the cutter over the desired cutting area.
3. Apply gentle, even pressure to the top of the cutter.
4. Rotate the cutter clockwise or counter-clockwise to make the cut. Multiple rotations with increasing pressure may be required for thicker materials.
5. Once the cut is complete, carefully lift the cutter and remove the cut circle.

## Concentric Cutting:

This method is used to cut two concentric circles, creating a ring or washer shape.

1. **Cut the first circle:** Set the desired radius for the inner circle using the red indicator. Perform the cut as described in the general procedure.
2. **Detach the scale panel:** The quick-releasing design allows for easy detachment of the transparent scale panel. This exposes the central pivot point.
3. **Set the outer circle radius:** Re-install the scale panel. Adjust the red indicator to the desired radius for the outer circle.
4. **Cut the outer circle:** With the scale panel re-installed and the outer radius set, perform the cut. The central pivot point ensures concentricity with the first cut.

## Center Positioning Cutting:

This method allows you to precisely position the center of your circle before cutting.

1. **Position the center:** Use the transparent scale panel to align the center of the cutter with the desired center point on your material. The concentric circles on the panel aid in precise alignment.
2. **Install scale panel with preset radius:** Ensure the cutting bit is installed and the desired radius is set on the scale panel.
3. **Rotate for cutting:** Apply gentle pressure and rotate the panel counterclockwise to make the cut.

Your browser does not support the video tag.

**Video 1:** Demonstration of DSPIAE Integral Circular Cutter features and operation. This video illustrates the product's design, bit installation, concentric cutting, and center positioning cutting techniques.

## MAINTENANCE

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- **Cleaning:** After each use, gently wipe the cutter with a soft, dry cloth to remove any dust or material residue. Avoid using harsh chemicals or abrasive materials.
- **Blade Care:** The tungsten cutting bit is durable but can dull over time. Replace dull bits to maintain cutting precision. Store spare bits in the magnetic compartment.
- **Storage:** Store the cutter in a clean, dry place away from direct sunlight and extreme temperatures. Ensure the cutting bit is safely stored within the magnetic compartment when not in use.

## TROUBLESHOOTING

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- **Uneven Cuts:**
  - Ensure the cutting bit is sharp. Replace if dull.
  - Verify even pressure is applied during rotation.
  - Check that the material is flat and securely placed on the cutting surface.
- **Difficulty Cutting:**
  - Increase the pressure applied via the black knob on the bit mount.
  - Perform multiple rotations with consistent pressure.
  - Ensure the cutting bit is correctly installed and not loose.
- **Radius Adjustment is Stiff:**
  - Over time, the mechanism should smooth out with use. Avoid forcing the adjustment.

## SPECIFICATIONS

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<b>Model Number</b>	PT-C
<b>Brand</b>	DSPIAE
<b>Cutting Diameter Range</b>	1mm - 50mm
<b>Included Bit</b>	1x Tungsten Cutting Bit (45°)
<b>Material</b>	(Not specified, but implied durable plastic/metal)
<b>Package Dimensions</b>	4.84 x 4.84 x 1.77 inches
<b>Item Weight</b>	8.4 ounces

## WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the manufacturer's official website or contact your retailer. Keep your purchase receipt as proof of purchase.

Manufacturer: DSPIAE