AUTODESK FUSION 360

2026

BLOG

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Learning Tutorials

A Note to Our Readers

2026

This blog has been created using a combination of artificial intelligence tools and human review to help deliver clear, structured, and up-to-date learning content.

All technical topics, examples, and workflows are curated to support learning and skill development. While every effort is made to ensure accuracy and clarity, readers are encouraged to validate concepts through hands-on practice and documentation. Our goal is to make learning more accessible, efficient, and practical for everyone.

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— CADIN360 Team

HOW TO RESIZE A SOLID AFTER CREATION IN FUSION 360

• LEARN • • APPLY • • GROW •

Introduction

Resizing a solid model after its creation in Fusion 360 can be essential for refining your design, accommodating new project requirements, or correcting initial dimensions. Whether you're adjusting a simple shape or a complex component, understanding how to resize solids efficiently helps maintain design accuracy while saving time. In this comprehensive guide, we'll walk you through the steps to resize a solid after creation in Fusion 360, along with helpful tips, common mistakes to avoid, and best practices to optimize your workflow.

Understanding the Need to Resize Solids in Fusion 360

Before diving into the process, it's important to understand why resizing solids in Fusion 360 might be necessary:

- **Design modifications**: Changing dimensions to meet new specifications.
- **Prototyping**: Adjusting size for better fit or function.
- **Assembly fit**: Ensuring parts align within an assembly.
- **Correcting errors**: Fixing initial dimension inaccuracies.

Fusion 360 offers multiple tools for resizing solids, each suited for different scenarios. Selecting the right method depends on whether you want to scale uniformly, resize specific features, or modify dimensions precisely.

How to Resize a Solid After Creation in Fusion 360

1. Using the Scale Tool

The **Scale** feature is the most straightforward method for resizing a solid proportionally.

- Choose the solid body you want to resize.
- Go to the **Modify** menu in the toolbar.

- Select **Scale**.

This opens the Scale dialog box, where you can choose between different scaling options.

2. Step-by-step instructions for scaling a solid:

- **Select the solid body**
- Make sure the body is visible and unambiguous.
- Click on the body in the workspace or from the Browser panel.

- **Access the Scale command**
- Click on **Modify** in the toolbar.
- Select **Scale** from the dropdown options.

- **Choose a scale type**
- **Uniform Scale**: Resizes the entire body proportionally.
- **Non-Uniform Scale**: Resizes in specific directions; not typically used in Fusion 360's intuitive interface but possible through other means.

- **Set the scale factor**
- Enter a numerical value (e.g., 1.5 to increase size by 50%, or 0.5 to reduce by 50%).
- You can also select a **pivot point** to specify the origin of scaling.

- **Preview and confirm**
- Use the preview model to see the effect.
- Click **OK** to apply the resize.

3. Resizing Specific Dimensions with the Press-Pull Tool

Sometimes, you want to resize only certain features or faces rather than the entire solid.

- Select the **Face** or **Edge** you want to modify.

- Click on **Modify** > **Press Pull**.
- Drag the face outward or inward, or input an exact distance.
- This method allows for precise resizing of specific parts.

4. Using the Scale Feature for Multiple Bodies

If your model comprises multiple bodies that need resizing uniformly:

- Select all bodies while holding **Shift**.
- Use the **Scale** tool as described above.
- Enter the desired scale factor, and all selected bodies will resize proportionally.

5. Editing Sketches for Precise Resizing

If your solid was created from sketches, resizing can sometimes be more accurately achieved by editing the sketches:

- Find and right-click on the associated sketch in the Browser.
- Select **Edit Sketch**.
- Modify the dimensions directly.
- Finish the sketch to update the geometry.

This approach maintains parametric control and is ideal for controlled resizing.

Practical Example: Resizing a Block for Fit Testing

Suppose you designed a rectangular block but realize it needs to be 10% larger to fit over another component.

Steps:

1. **Select the entire solid block.**

2. **Access Modify > Scale.**
3. **Choose Uniform Scaling.**
4. **Enter 1.10 as the scale factor.**
5. **Confirm and observe the resized block.**

This method preserves proportions and is quick for overall size adjustments.

Common Mistakes When Resizing Solids

- **Resizing without considering feature dependencies:** Sometimes resizing can cause interference with other features or components.
- **Scaling non-uniformly when not intended:** Be cautious using non-uniform scaling unless necessary, as it can distort geometry.
- **Ignoring constraints in parametric modeling:** Resizing features that are constrained or linked might result in errors or unwanted geometry.
- **Forgetting to update sketches:** If modifications depend on sketches, ensure those sketches are updated accordingly.

Best Practices for Resizing in Fusion 360

- Always **save a version** before resizing, in case you need to revert.
- Use **parametric features** whenever possible—resize through sketch dimensions for precision.
- Check interference and fit after resizing, especially in assemblies.
- Apply **scaling to specific features** rather than the whole model when only partial modifications are needed.

Comparing Resize Methods in Fusion 360

Method	Use Case	Pros	Cons
Scale Tool	Overall proportional resize	Quick, easy to apply	Cannot resize individual features
Press Pull	Resizing specific faces/features	Precise control over parts	Less effective for entire solids
Editing Sketches	Precise dimension control	Maintains parametrics	Requires sketch updates

Direct Modeling	Quick manual adjustments	Intuitive for minor tweaks	Less precise, can break parametrics

Conclusion

Resizing a solid in Fusion 360 after its initial creation is a fundamental skill that enhances your design flexibility. Whether you need a quick proportional resize with the Scale tool, precise feature adjustments with Press Pull, or comprehensive modifications through sketch editing, mastering these techniques allows for efficient and accurate modeling. By choosing the right method based on your specific needs and understanding common pitfalls, you can significantly improve your workflow and produce better, more accurate designs.

FAQ

1. How do I resize a solid proportionally in Fusion 360?

Ans: Use the Scale tool under the Modify menu to resize the entire solid proportionally by entering a scale factor.

2. Can I resize only specific features or faces in Fusion 360?

Ans: Yes, select the face or feature, then use the Press Pull tool to resize that part independently.

3. Is it possible to resize a model parametrically in Fusion 360?

Ans: Yes, by editing related sketches and their dimensions, you can resize parts parametrically.

4. What should I do if my resize causes interference with other components?

Ans: Check for interference after resizing and adjust nearby features or components accordingly, or use click-based adjustments to prevent overlaps.

5. How can I resize multiple bodies at once?

Ans: Select all bodies together, then apply the Scale tool for uniform resizing of all selected bodies.

6. Can I resize a solid without affecting its features in Fusion 360?

Ans: Resizing via sketches or features is more selective; the Scale tool resizes the entire solid, potentially affecting all features.

7. What are common mistakes to avoid when resizing in Fusion 360?

Ans: Avoid resizing without considering feature dependencies, unintended distortion, and skipping sketch updates, which can lead to errors.

By understanding these key methods and best practices, you can confidently resize solids after creation in Fusion 360, ensuring your designs are precise and adaptable to evolving project needs.

About CADIN360

2026

CADIN360 Learning Tutorials is an educational platform focused on practical CAD, CAM, and CAE learning.

The platform provides clear, industry-oriented tutorials, design workflows, and real-world insights using tools such as Autodesk Fusion 360.

CADIN360 is created to help learners, students, and professionals build strong fundamentals and practical design skills in modern CAD workflows.

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Learning Tutorials

Practice What You've Learned

2026

You've just completed this blog and learned important concepts in Autodesk Fusion 360.

To help you practice and apply what you've learned, the next pages include a sample from our Fusion 360 book .This sample contains practice exercises and real-world practice tasks designed to strengthen your skills.

What you'll find next:

- ✓ Practice exercises from the book
- ✓ A brief overview of the complete book
- ✓ Options to explore or request the full sample

Your hands-on Fusion 360 practice starts next.

AUTODESK

FUSION 360 ALL IN ONE WORKBOOK

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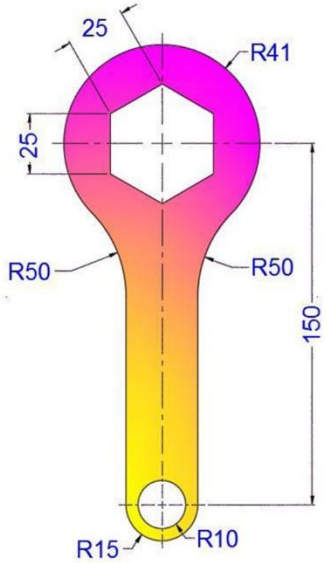
- 3D Modeling
- Assembly



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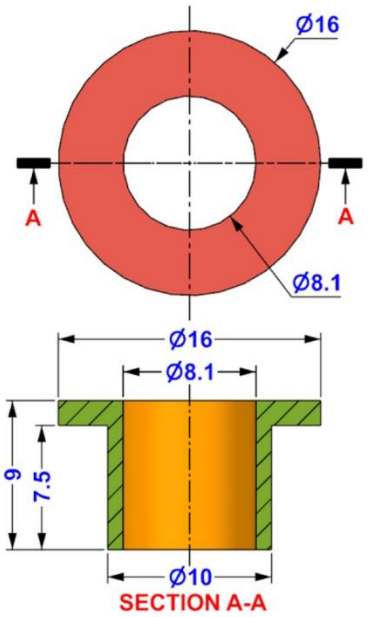
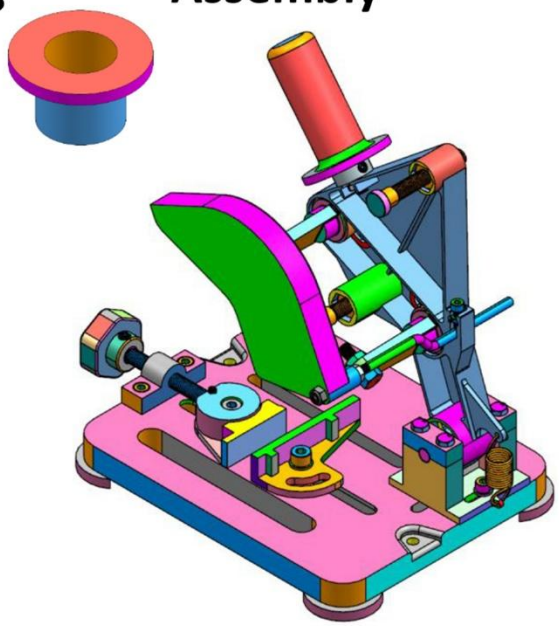


3D Modeling



Assembly

SACHIDANAND JHA

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FUSION 360 ALL IN ONE WORKBOOK

500+ PRACTICE EXERCISES

2D Sketching • 3D Modeling • Assembly Drawings

SACHIDANAND JHA

Dear Reader,

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This book contains over 500 carefully crafted practice drawings, including:

- 200 2D Sketching Exercises
- 200 3D Modeling Exercises
- Comprehensive Assembly Models with 150+ Individual Part Drawings

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Best regards,

Sachidanand Jha
Founder & CEO, CADIN360

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AUTODESK FUSION 360 ALL IN ONE WORKBOOK

- This book contains over 500 CAD practice exercises, organized as:

  1. 200 2D Sketching Exercises
  2. 200 3D Modeling Exercises
  3. Assembly Projects with 150+ Part Drawings

- This book is a practice workbook. It does not include step-by-step tutorials for creating 2D drawing, 3D models and Assembly.

- SI units (millimeters) are used for all dimensions.

- Third Angle Projection is used throughout this book.

- This book is for **AUTODESK FUSION 360** and also suitable for Other Feature-Based Modeling Software such as Inventor, Catia, SolidWorks, NX, Solid Edge, AutoCAD, PTC Creo etc.

- Designed for students, engineers, drafters, and designers looking for extensive CAD practice using Autodesk Fusion 360.

- The exercises cover a wide range of real-world modeling challenges—from simple sketches to complex assemblies—offering clear, concise, and structured drawing practice.

- Exercises are organized to gradually develop beginner to advanced-level design skills.

- Each exercise is self-contained, and can be completed independently.

- Assembly drawings follow industry standards to help improve visualization and multi-part modeling skills.

- All dimensions are in mm. Assume missing dimensions logically.

HOW TO USE THIS BOOK

This book contains over 500 CAD practice exercises, designed for self-paced learning using Autodesk Fusion 360 or any feature-based modeling software.

- 2D Sketching Exercises: Start here if you're a beginner or learning how to use the sketch environment.

- 3D Modeling Exercises: Follow after mastering sketching. Practice creating solid models using the provided dimensions.

- Assembly Drawings: Use after completing part models to understand multi-part assemblies, relationships, and constraints.

Tips for Best Use:

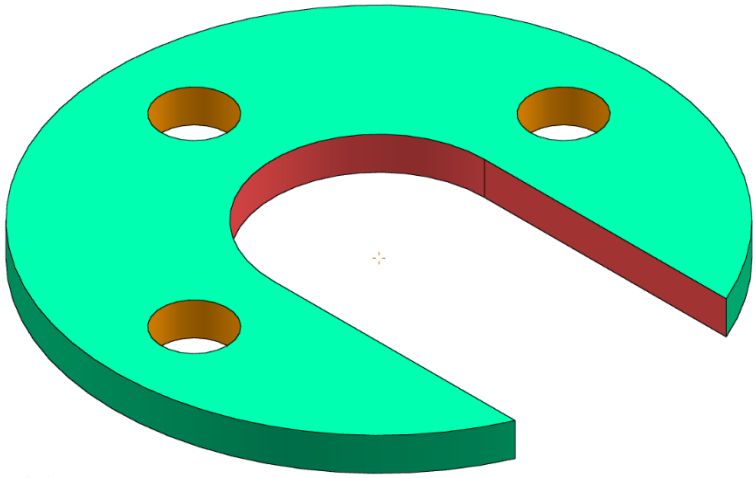
- Complete the exercises in order, or jump to any skill level you prefer.
- All dimensions are in millimeters.
- Where dimensions are missing, apply logic or practice estimation.
- This book is ideal for both students and professionals preparing for industry design work.

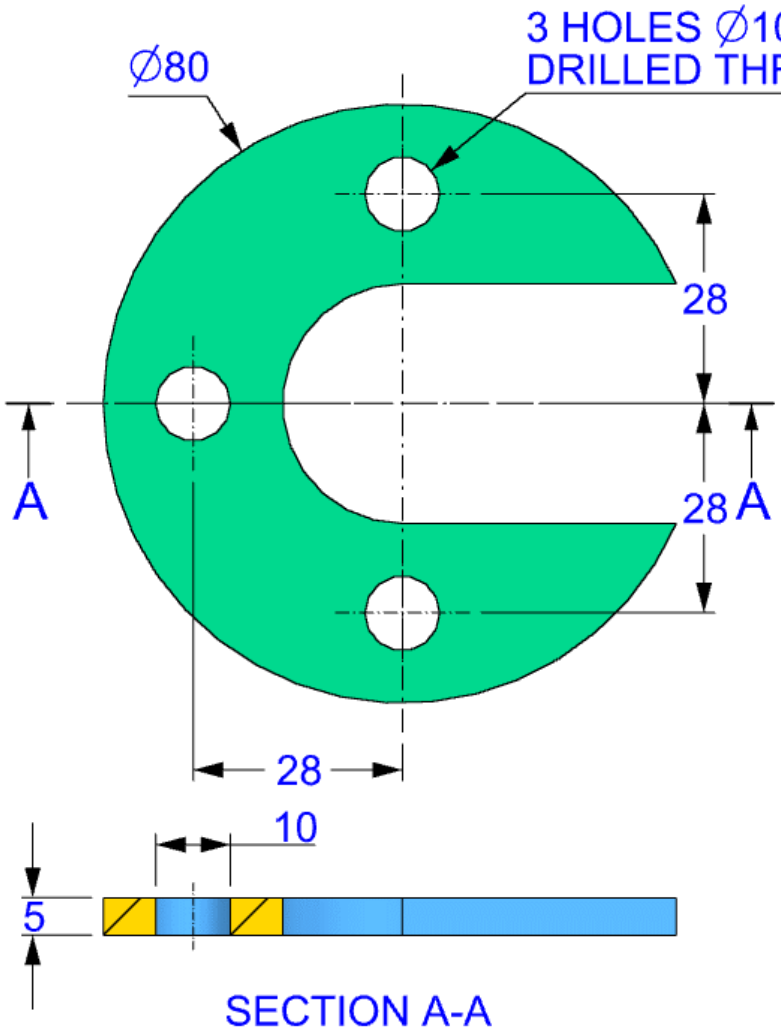
Note:

This book is available in multiple formats – **Black & White**, **Standard Color**, and **Premium Color** editions.

Happy learning!
– Team CADIN360

EXERCISE-01





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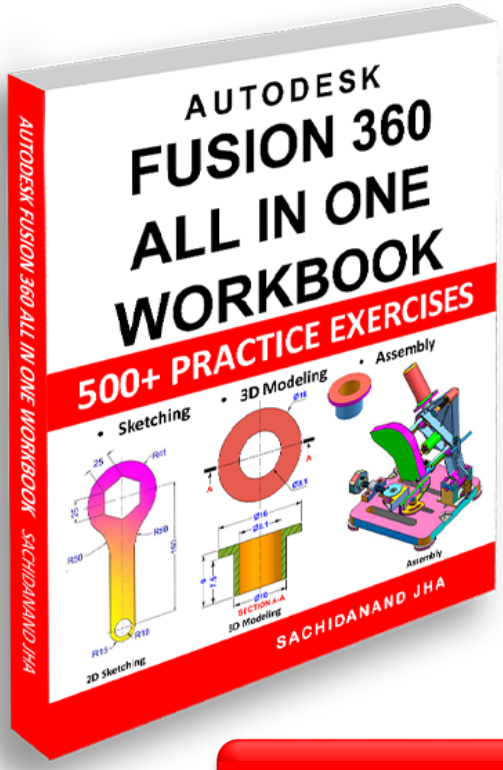

What's Included in the FUSION 360 ALL IN ONE WORKBOOK?

- ✓ Books contains exercises of Sketching, 3D Modeling & Assembly.
- ✓ 500+ Practice Exercises with Dimensions
- ✓ Full Assembly STEP Files (.stp format) – Compatible with all major CAD software
- ✓ Get 200 3D Exercises in .f3d file format
- ✓ Get All Assembly Exercises in .STP file
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Happy Designing!
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Master Fusion 360 with Real-World Practice Exercises

This book contains over 500 Fusion 360 practice exercises including sketching, 3D modeling, and assembly drawings. Designed for students, engineers, and professionals to build practical CAD modeling skills.

AUTODESK FUSION 360 ALL IN ONE WORKBOOK

This book contains:-

- 200 2D Sketching Exercises
- 200 3D Modeling Exercises
- Multi-part Assembly Exercises & Detailed Drawings
- All drawings in 3rd Angle projection
- All dimensions are in mm(metric system)