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 CREATE DISTANCE CHAMFER IN FUSION 360

• LEARN • • APPLY • • GROW •

Introduction

Creating precise and professional chamfers is a fundamental skill in CAD modeling, especially when designing components that require smooth edges or specific detail finishes. In Fusion 360, understanding how to create a distance chamfer — one where a specific distance from an edge is chamfered — is essential for modeling accurate, manufacturable parts. Whether you're preparing parts for machining, ensuring ergonomic edges, or simply adding aesthetic detail, mastering the distance chamfer tool enhances your design capabilities. In this comprehensive guide, you'll learn step-by-step how to create a distance chamfer in Fusion 360, along with practical tips, common mistakes, and real-world examples to help you become proficient.

What Is a Distance Chamfer?

Before diving into the creation process, it’s important to understand what a distance chamfer is. Unlike the simple angle-based chamfer, a distance chamfer involves trimming or modifying an edge by a specified linear measurement. This makes it ideal when precise control over the edge transition is necessary, such as in mechanical fits or aesthetic features.

In Fusion 360, the distance chamfer tool provides a straightforward way to create these modifications efficiently, especially suited for beginners and advanced users alike who need exact control over edge treatments.

How to Create a Distance Chamfer in Fusion 360

Creating a distance chamfer in Fusion 360 involves a systematic process that leverages the software's modeling and editing tools. Below is a detailed step-by-step guide to achieve this.

1. Prepare Your Model

- Open your Fusion 360 workspace.
- Either create a new design or open an existing model where you want to apply the distance chamfer.
- Ensure your model has well-defined edges suitable for chamfering.

2. Enter the Modeling Environment

- Switch to the "Model" workspace if you're not already there.
- This workspace provides all the necessary tools for editing and creating features like chamfers.

3. Select the Edge(s) to Chamfer

- Click on the specific edge(s) you want to chamfer.
- To select multiple edges, hold Shift while selecting.

4. Activate the Chamfer Tool

- Navigate to the "Modify" menu on the toolbar.
- Click on "Chamfer."
- Fusion 360 offers multiple chamfer options; choose "Distance" from the options that appear.

5. Specify the Distance Value

- In the Chamfer dialog box, you'll see input fields for distances.
- Enter your desired distance measurement in the "Distance" box.
- You can specify one or two distances:
- **Equal Distance**: Same distance for both sides.
- **Different Distances**: One for each side.
- Confirm your selection.

6. Preview and Apply

- Use the preview visualization to see how the chamfer will look.
- Adjust the distance values as needed for the perfect fit.

- Click "OK" to apply.

7. Finalize Your Design

- Inspect the chamfer for uniformity and accuracy.
- Make adjustments if necessary (re-select edges and repeat, or edit features).

Practical Example: Chamfering a Mechanical Part

Suppose you're designing a simple bracket with a hole and edges that require smooth transitions for assembly or aesthetic reasons. Applying a distance chamfer to the edges around the hole ensures a clean, professional finish.

- Select the edges surrounding the hole.
- Use the "Distance" chamfer tool to set a specific offset, like 1mm.
- Preview the chamfer to ensure it doesn't interfere with other features.
- Confirm the operation, and proceed with further modeling or validation.

Common Mistakes to Avoid

- **Over-terminating edges**: Applying too large a distance that encroaches on adjacent features.
- **Incorrect edge selection**: Selecting internal edges or faces instead of the intended edges leads to undesired geometry.
- **Ignoring model scale**: Using very small or very large distances without considering the overall scale of the part.
- **Not previewing the chamfer**: Skipping the preview step might result in undesired geometry, requiring undo and redo.

Pro Tips for Creating Precise Distance Chamfers

- Use the "Measure" tool beforehand to determine the exact edge length or distance needed.
- Combine the distance chamfer with other modifications for complex features.
- When working with multiple edges, consider selecting all relevant edges simultaneously to ensure uniformity.
- Use the "Fillet" tool afterward if you want smooth, rounded transitions instead of sharp chamfers.

Strategies for Efficient Workflow

- Save commonly used distance values as parameters for quick reuse.
- Use keyboard shortcuts for quick access to the chamfer tool.
- Apply the "Repeat" command to quickly create multiple chamfers of similar dimensions.
- Consider using script or API for parametric design if creating multiple similar features across different models.

Chart: Comparing Chamfer Types in Fusion 360

Type of Chamfer	Description	Best Use Case	Advantages	Limitations

Distance Chamfer	A linear measurement from the edge	Precise edge control	Accurate, easy to adjust	Less flexible for complex angles
Angle Chamfer	Defined by an angle and distance	Decorative edges or quick chamfering	Fast, visual emphasis	Less precise for exact measurements
Equal Chamfer	Same distance on both sides	Symmetrical edge finishing	Simplifies design	Limited control over edge transition

Best Practices for Creating Distance Chamfers

- Always double-check your measurements before applying.
- Use construction lines or temporary geometry to mark where the chamfer should be.
- Consider the manufacturing process — sharp or large chamfers can complicate machining.
- Regularly inspect the model in different views to verify geometry.
- Keep model history clean by deleting or suppressing unnecessary features.

Conclusion

Creating a distance chamfer in Fusion 360 is a fundamental technique that, when mastered, significantly enhances your 3D modeling capabilities. With step-by-step instructions, practical insights, and best practices, you can confidently apply precise edge modifications that elevate your designs. Whether you're designing mechanical parts, aesthetic features, or functional components, understanding how to use the distance chamfer tool ensures your models meet both visual and manufacturing standards.

FAQ

1. How do I create a chamfer with different distances on each side in Fusion 360?

Ans: Select the edges, activate the "Chamfer" tool, choose the "Distance" option, and enter individual values for each side.

2. Can I create a symmetrically chamfered edge in Fusion 360?

Ans: Yes, by selecting the edge and setting equal distances for both sides in the "Distance" chamfer option.

3. Is it possible to edit a chamfer after applying it in Fusion 360?

Ans: Yes, you can right-click on the chamfer feature in the timeline and select "Edit Feature" to modify the distances.

4. What's the difference between a distance chamfer and a fillet in Fusion 360?

Ans: A distance chamfer creates a beveled edge at a specified offset line, while a fillet rounds the edge with a curve.

5. How do I avoid overlapping or unintended geometry when applying a distance chamfer?

Ans: Carefully select edges, preview the chamfer before applying, and ensure the distance values are appropriate for the geometry.

6. Can I apply a distance chamfer to multiple edges simultaneously?

Ans: Yes, select all desired edges before activating the chamfer tool to apply it uniformly.

7. Is it possible to parametrize chamfer distances for easier updates?

Ans: Yes, you can create user parameters in Fusion 360 and link chamfer distances to those parameters for easy adjustment later.

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

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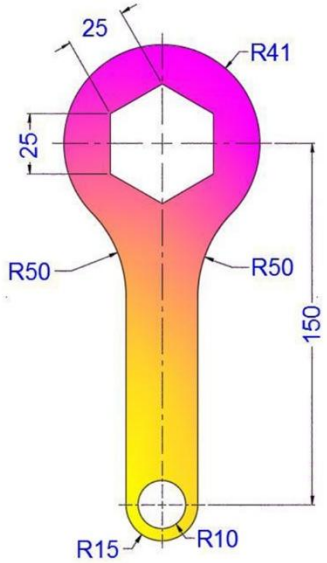
- 3D Modeling
- Assembly



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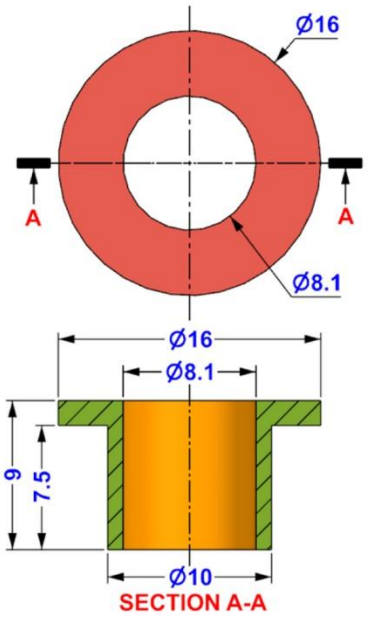
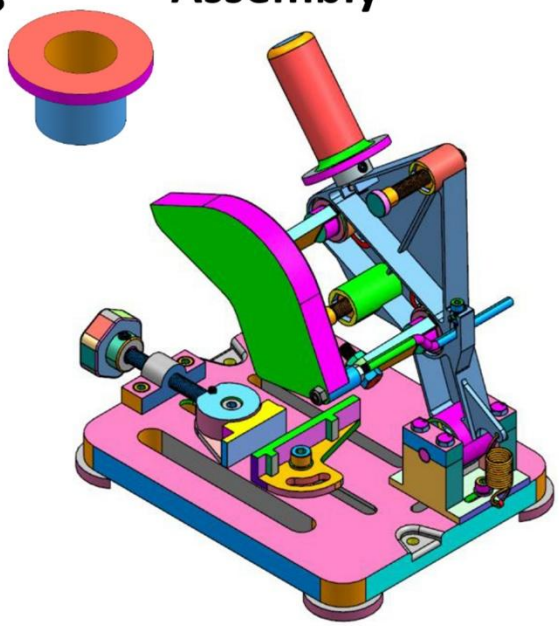


3D Modeling



Assembly

SACHIDANAND JHA

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500+ PRACTICE EXERCISES

2D Sketching • 3D Modeling • Assembly Drawings

SACHIDANAND JHA

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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

We founded CADIN360 in 2016 with the goal of delivering practical, high-quality learning material for CAD software. More than 9 years later, we're still committed to producing consistently exceptional books. With each of our titles, we're working hard to set a new standard for the industry. From the paper we print on, to the authors we work with, our goal is to bring you the best books available.

I hope you see all that reflected in these pages. I'd be very interested to hear your comments and get your feedback on how we're doing. Feel free to let me know what you think about this or any other CADIN360 book by sending me an email at cadin360@gmail.com

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Customer feedback is critical to our efforts at CADIN360.

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:

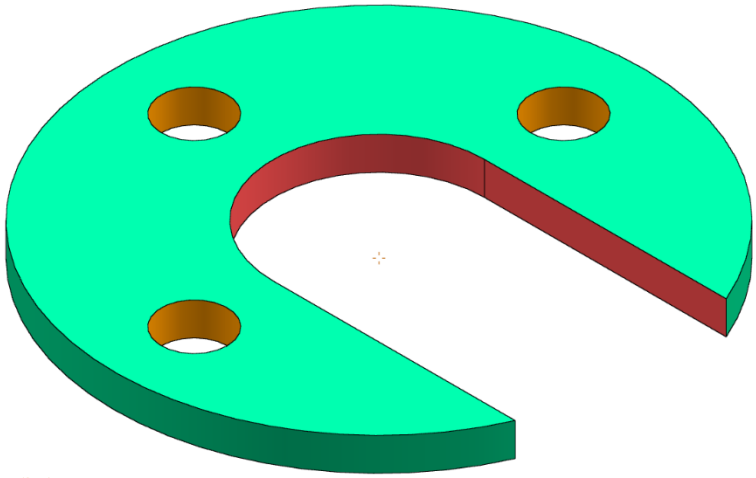
- Complete the exercises in order, or jump to any skill level you prefer.
- All dimensions are in millimeters.
- Where dimensions are missing, apply logic or practice estimation.
- This book is ideal for both students and professionals preparing for industry design work.

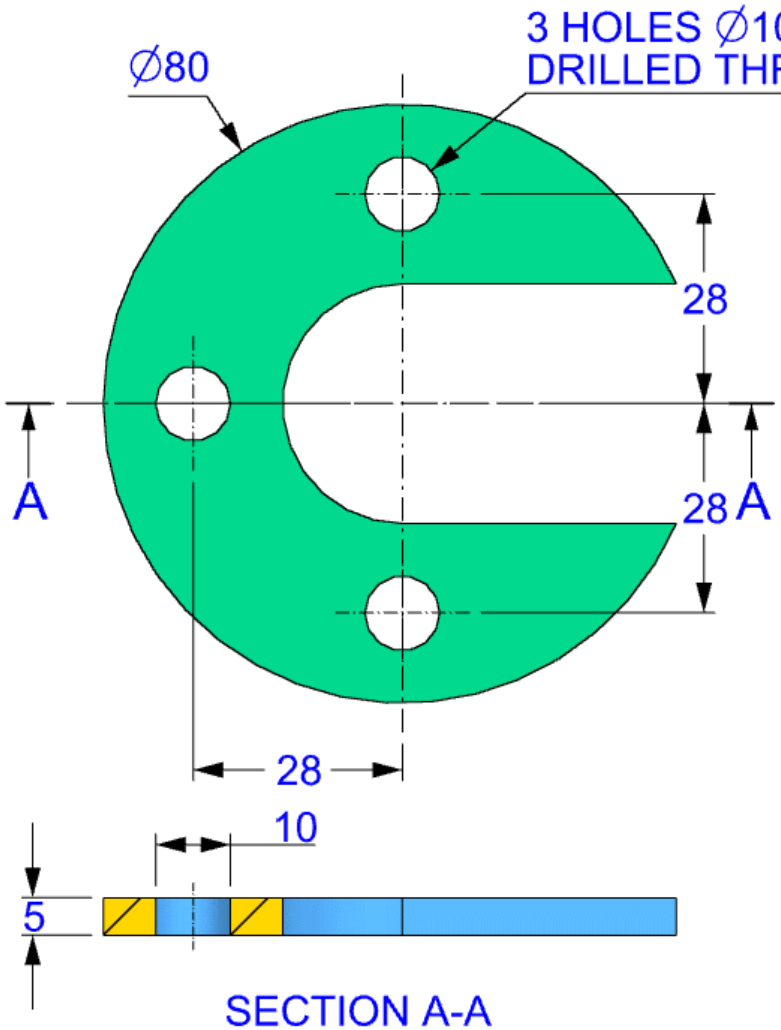
Note:

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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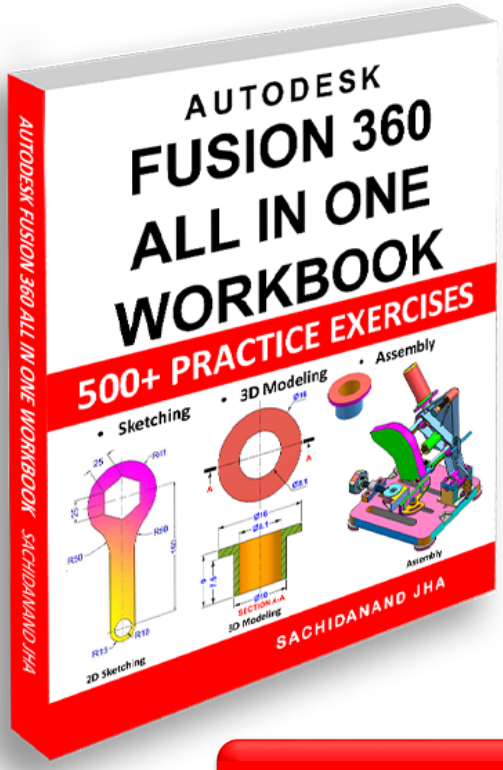

What's Included in the FUSION 360 ALL IN ONE WORKBOOK?

- ✓ Books contains exercises of Sketching, 3D Modeling & Assembly.
- ✓ 500+ Practice Exercises with Dimensions
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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)