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LINE10 Tools 45207

LINE10 Tools 4-1/2-inch Angle Grinder Attachments Kit

MODEL: 45207

1. Product Overview

This LINE10 Tools 8-piece multipurpose accessories kit is designed to expand the capabilities of your 4-1/2-inch angle grinder. It includes a variety of attachments for sanding, grinding, heavy-duty cleaning, and cutting metal. The kit features durable components engineered for efficient performance across various tasks.



Figure 1: Complete LINE10 Tools 4-1/2-inch Angle Grinder Attachments Kit.



Figure 2: Detailed dimensions of the various attachments included in the kit.

2. Components Included

- **4-1/2 inch Zirconia Flap Discs:** Ideal for light grinding of stainless steel or any metal. These discs run cool and are very durable, lasting up to 10 times longer than standard sanding discs.
- **4-1/2 inch Aluminum Oxide Flap Discs:** Cost-effective and suitable for light grinding of ferrous metals. Designed to absorb vibrations, making them ideal for rough surfaces and tough jobs.
- **3 inch Wire Cup Brush:** Excellent for heavy-duty cleaning, rust removal, and paint stripping, resulting in a smooth, uniform finish.
- **4-1/2 inch Cut-Off Wheels:** Resin-bonded aluminum oxide abrasive cutting discs for efficient and economical cutting of metal rods, pipes, bolts, and more.



Zirconia Flap Disc



Aluminum Oxide Flap Disc



Wire Cup Brush



Cut-Off Wheel

3. Safety Information

Always prioritize safety when using angle grinder attachments. Failure to follow safety guidelines can result in serious injury.

- **Eye Protection:** Always wear ANSI-approved safety goggles or a face shield to protect against flying debris and sparks.
- **Hand Protection:** Wear heavy-duty work gloves to protect your hands from sharp edges, heat, and vibration.
- **Hearing Protection:** Use earplugs or earmuffs to prevent hearing damage from loud noise.

- **Respiratory Protection:** Wear a dust mask or respirator, especially when grinding or cutting materials that produce fine dust.
- **Proper Guarding:** Ensure your angle grinder's guard is properly installed and adjusted to deflect sparks and debris away from you.
- **Secure Workpiece:** Always clamp or secure your workpiece firmly to prevent movement during operation.
- **Inspect Attachments:** Before each use, inspect discs and brushes for cracks, chips, or damage. Do not use damaged attachments.
- **Correct RPM:** Ensure the maximum RPM rating of the attachment is equal to or greater than the RPM of your angle grinder.
- **Material Compatibility:** Use the correct attachment for the material you are working on.
- **Ventilation:** Work in a well-ventilated area to disperse dust and fumes.

4. Setup and Installation

Proper installation of attachments is crucial for safe and effective operation.

1. **Disconnect Power:** Always unplug your angle grinder from the power source before changing any attachments.
2. **Clean Spindle:** Ensure the grinder's spindle and mounting flanges are clean and free of debris.
3. **Select Correct Flange:** Use the appropriate inner and outer flanges for the specific attachment (e.g., depressed center wheels require a specific flange type).
4. **Mount Attachment:** Place the chosen disc or brush onto the grinder's spindle, ensuring it sits flush against the inner flange.
5. **Secure with Outer Flange Nut:** Thread the outer flange nut onto the spindle and tighten it securely using the spanner wrench provided with your angle grinder. Do not overtighten.
6. **Check for Wobble:** After installation, manually spin the attachment to ensure it is properly seated and does not wobble.
7. **Adjust Guard:** Position the grinder's guard to provide maximum protection for your hands and body, directing sparks away from you.

5. Operating Instructions

This kit provides versatile tools for various applications. Always refer to your angle grinder's manual for specific operating procedures.

Video: Overview of the LINE10 Tools 8 Pcs Angle Grinder Kit in action, demonstrating various attachments.

5.1. Zirconia Flap Wheels

Zirconia flap wheels are designed for light grinding of stainless steel and other metals. Their unique construction allows them to run cooler, reducing heat buildup on the workpiece.

- **Application:** Ideal for material removal, deburring, and blending on stainless steel, carbon steel, and other alloys.
- **Technique:** Apply moderate pressure and move the grinder smoothly across the surface. Avoid excessive pressure, which can cause premature wear or overheating.



Figure 3: Zirconia flap wheel in use for grinding metal, producing sparks.

5.2. Aluminum Oxide Flap Wheels

Aluminum oxide flap wheels are versatile and cost-effective for grinding ferrous metals. They are designed to absorb vibrations, providing a smoother operation on rough surfaces.

- **Application:** Suitable for general-purpose grinding, stock removal, and surface preparation on iron and steel.
- **Technique:** Use a consistent angle and pressure to achieve an even finish. These wheels are effective for removing rust and preparing surfaces for painting or welding.



Figure 4: Aluminum Oxide flap wheel attached to an angle grinder, ready for use.

5.3. Wire Cup Brush

The 3-inch wire cup brush is designed for aggressive cleaning, rust removal, and paint stripping from metal surfaces, providing a uniform finish.

- **Application:** Ideal for preparing surfaces, removing scale, corrosion, and old coatings.

- **Technique:** Use light to moderate pressure. Allow the brush to do the work. Avoid pressing too hard, which can bend or break the wires. Move the brush in consistent strokes for an even clean.



Figure 5: Angle grinder fitted with a wire cup brush for surface preparation.

5.4. Cutting Wheels

The 4-1/2 inch cut-off wheels are resin-bonded aluminum oxide abrasive discs, designed for efficient and economical cutting of various metal forms.

- **Application:** Best for cutting metal rods, pipes, bolts, and sheet metal.
- **Technique:** Use a steady, controlled motion. Allow the wheel to cut through the material without forcing it. Ensure the workpiece is securely clamped to prevent kickback.

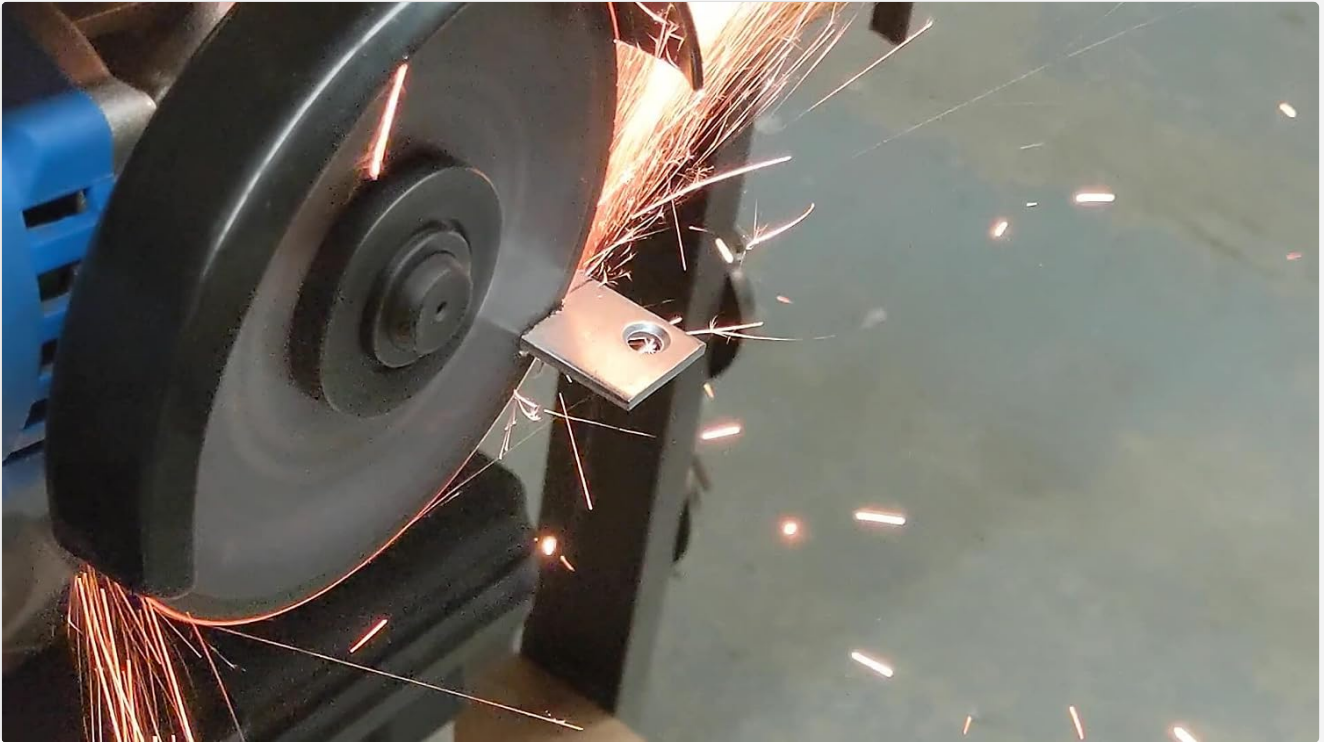


Figure 6: Angle grinder with a cut-off wheel actively cutting a metal piece, generating sparks.

6. Maintenance

Proper maintenance extends the life of your attachments and ensures safe operation.

- **Cleaning:** After each use, clean attachments to remove metal dust and debris. A stiff brush or compressed air can be used.
- **Inspection:** Regularly inspect all attachments for signs of wear, cracks, chips, or damage. Discard and replace any damaged attachments immediately.
- **Storage:** Store attachments in a dry, cool place, away from moisture and direct sunlight. Keep them in their original packaging or a protective container to prevent damage.
- **Wire Brush Care:** If the wire brush becomes clogged, use a wire brush cleaner or a stiff wire brush to remove debris.

7. Troubleshooting

If you encounter issues with your attachments, consider the following common troubleshooting steps:

- **Poor Performance (Grinding/Cutting):**
 - Check if the attachment is worn out and needs replacement.
 - Ensure the correct attachment is being used for the material.
 - Verify the angle grinder's RPM matches the attachment's rating.
- **Excessive Vibration:**

- Ensure the attachment is properly seated and the flange nut is tightened.
- Inspect the attachment for damage or imbalance. Replace if necessary.
- Check the angle grinder's spindle for damage or bending.

• **Overheating of Workpiece:**

- Reduce pressure during operation.
- Use a cooler-running disc type (e.g., Zirconia for stainless steel).
- Allow the workpiece to cool periodically.

8. Specifications

Feature	Detail
Brand	LINE10 Tools
Item Model Number	45207
Product Dimensions	4.5"L x 4.5"W (Discs); 3 x 1 x 0.01 inches (Overall kit packaging); 1.3 Pounds
Grit Material	Aluminum Oxide (for cutting wheels and some flap discs), Zirconia (for specific flap discs)
Grit Type	Medium
Compatible Devices	Angle Grinder
Max RPM	Up to 13,300 RPM (for 4-1/2" discs)

9. Warranty and Support

For information regarding product warranty, returns, or technical support, please contact LINE10 Tools directly through their official website or the retailer from whom the product was purchased. Keep your purchase receipt as proof of ownership.

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