

Manuals.plus /

› Viking Drill & Tool /

› Viking Drill and Tool 29150 Type 280 118 Degree Shank Silver/Deming Drill Bit, 35/64" User Manual

Viking Drill & Tool 29150

Viking Drill and Tool 29150 Type 280 118 Degree Shank Silver/Deming Drill Bit, 35/64" User Manual

Model: 29150 | Brand: Viking Drill & Tool

1. INTRODUCTION

This manual provides essential information for the safe and effective use, maintenance, and care of your Viking Drill and Tool 29150 Type 280 118 Degree Shank Silver/Deming Drill Bit. Designed for general purpose drilling, this high-quality tool is crafted from high-speed steel to ensure durability and consistent performance in various materials.

2. PRODUCT OVERVIEW

The Viking Drill and Tool 29150 drill bit is engineered for precision and longevity. Key features include:

- **High Speed Steel Construction:** Provides excellent wear resistance for general purpose applications in ferrous and nonferrous materials.
- **118-Degree Point:** Optimized for general purpose drilling in mild steel, soft metals, and nonferrous materials.
- **1/2-inch Reduced Shank:** Features a Silver and Deming style shank for compatibility with standard drill chucks.
- **Spiral Flutes:** Designed with a higher flute angle to efficiently remove chips during drilling, preventing clogging and heat buildup.
- **Overall Length:** 6 inches.



Figure 1: The Viking Drill and Tool 29150 Type 280 118 Degree Shank Silver/Deming Drill Bit, showing its spiral flutes and reduced shank.

3. SPECIFICATIONS

Model Number	29150
Size	35/64"
Material	Alloy Steel, High Speed Steel (HSS)
Finish Type	Silver
Shank Type	Straight (1/2" Reduced Shank)
Cutting Angle	118 Degrees
Tool Flute Type	Spiral
Item Dimensions (L x W x H)	7.25 x 0.94 x 0.94 inches
Item Weight	3.99 ounces
Manufacturer	Viking
UPC	050728291501

4. SETUP

Proper setup is crucial for safe and effective drilling. Always ensure your drill is unplugged or its battery removed before changing bits.

1. **Select the Correct Drill:** Ensure your drill is compatible with a 1/2-inch shank.
2. **Open the Chuck:** Rotate the drill chuck counter-clockwise until the jaws are wide enough to accept the drill bit shank.
3. **Insert the Bit:** Insert the 1/2-inch reduced shank of the Viking 29150 drill bit into the chuck. Ensure it is inserted deep enough to be securely gripped by all three jaws.
4. **Tighten the Chuck:** Rotate the chuck clockwise by hand until it is finger-tight. For keyless chucks, give it an extra twist to ensure maximum grip. For keyed chucks, use the chuck key to firmly tighten the jaws around the bit.
5. **Verify Security:** Tug gently on the drill bit to confirm it is securely held and will not slip during operation.

5. OPERATING INSTRUCTIONS

Follow these guidelines for optimal performance and safety when using your drill bit:

- **Material Compatibility:** This drill bit is suitable for general purpose drilling in mild steel, soft metals, and nonferrous materials. Avoid using it on hardened steel or extremely abrasive materials unless specifically designed for such applications.
- **Mark the Drilling Point:** Use a center punch to create a small indentation at the desired drilling location to prevent the bit from wandering.
- **Apply Consistent Pressure:** Start drilling at a moderate speed with light, consistent pressure. Increase pressure as the bit begins to cut. Avoid excessive force, which can cause the bit to overheat or break.
- **Use Cutting Fluid:** For drilling in metal, apply a suitable cutting fluid or lubricant to reduce friction, dissipate heat, and extend the life of the drill bit.
- **Clear Chips:** Periodically withdraw the drill bit from the hole to clear chips, especially when drilling deep holes. The spiral flutes are designed for efficient chip removal, but manual clearing may still be necessary.
- **Maintain Proper Speed:** Refer to your drill's manual or general drilling charts for recommended speeds based on the material being drilled and the bit size. Generally, larger bits and harder materials require slower speeds.
- **Secure Workpiece:** Always clamp your workpiece securely to prevent it from rotating or shifting during drilling.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your drill bit.

- **Cleaning:** After each use, clean the drill bit to remove any accumulated chips, debris, or cutting fluid residue. A wire brush or cloth can be used.
- **Lubrication/Protection:** Apply a light coat of machine oil or rust preventative to the drill bit, especially if it will be stored for an extended period or in a humid environment.
- **Storage:** Store drill bits in a dry, organized container to prevent damage to the cutting edges and to keep them from rusting.
- **Inspection:** Regularly inspect the cutting edges for signs of wear, dullness, or damage. A dull bit will generate more heat and drill less efficiently.
- **Sharpening:** If the bit becomes dull, it can be professionally sharpened or sharpened using appropriate drill bit sharpening tools, maintaining the original 118-degree point angle.

7. TROUBLESHOOTING

Here are common issues and their potential solutions:

- **Bit Not Cutting / Slow Cutting:**
 - Check if the bit is dull; sharpen or replace if necessary.
 - Ensure correct drilling speed for the material.
 - Apply adequate, consistent pressure.
 - Verify the material is within the bit's intended use.
- **Excessive Heat / Smoke:**
 - Reduce drilling speed.
 - Use cutting fluid for metal.
 - Clear chips frequently.
 - Ensure the bit is sharp.
- **Bit Breakage:**
 - Avoid excessive side pressure or bending the bit.
 - Reduce feed pressure.
 - Ensure the workpiece is securely clamped.
 - Check for proper chuck tightening.
- **Hole is Oversized or Irregular:**
 - Ensure the bit is securely tightened in the chuck.
 - Use a center punch to start the hole accurately.
 - Maintain steady, perpendicular pressure.

8. SAFETY INFORMATION

Always prioritize safety when operating power tools and using drill bits. Failure to follow safety precautions can result in serious injury.

- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses or goggles to protect your eyes from flying debris. Consider gloves to protect hands, but ensure they do not interfere with tool operation.

- **Secure Workpiece:** Always clamp the material being drilled firmly to a workbench or vise. Never hold the workpiece by hand.
- **Proper Tool Selection:** Use the correct drill bit for the material and application.
- **Inspect Bit:** Before each use, inspect the drill bit for damage, cracks, or excessive wear. Do not use damaged bits.
- **Avoid Loose Clothing and Jewelry:** Ensure no loose clothing, long hair, or jewelry can get caught in rotating parts.
- **Maintain Control:** Always maintain a firm grip on the drill and be prepared for torque reactions, especially when the bit breaks through the material.
- **Cooling:** Allow the drill bit to cool down after use before handling, as it can become very hot.
- **Ventilation:** Work in a well-ventilated area, especially when drilling materials that produce fine dust or fumes.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

9. WARRANTY & SUPPORT

Viking Drill & Tool is committed to providing high-quality products. For specific warranty information or technical support regarding your 29150 drill bit, please refer to the official Viking Drill & Tool website or contact their customer service directly. Keep your purchase receipt for any warranty claims.

For further assistance, please visit the Viking Drill & Tool brand page on Amazon or contact your retailer.

