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DEWALT DCG414B

DEWALT FLEXVOLT 60V MAX* Angle Grinder

Model: DCG414B

Product Overview

The DEWALT FLEXVOLT 60V MAX* Angle Grinder (Model DCG414B) is a powerful cordless tool designed for grinding and cutting applications. It features a 13-amp motor equivalent power, providing robust performance for various tasks. This grinder incorporates advanced safety features such as a Kickback Brake and an Anti-Rotation E-CLUTCH System to enhance user protection during operation. It is compatible with 4-1/2 inch to 6-inch grinding and cutting wheels.



Image: The DEWALT FLEXVOLT 60V MAX* Angle Grinder, showing the main unit, side handle, and a protective guard.

Important Safety Instructions

Always observe basic safety precautions when using power tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions before operating this tool.

- **Eye Protection:** Always wear eye protection that conforms to ANSI Z87.1.
- **Hearing Protection:** Wear hearing protection during extended periods of operation.
- **Proper Guarding:** Ensure the correct guard is installed and properly adjusted for the specific application (grinding or cutting).
- **Secure Workpiece:** Always secure the workpiece to prevent movement during operation.
- **Maintain Control:** Always maintain a firm grip on the tool with both hands.
- **Avoid Kickback:** Be aware of potential kickback and use the tool in a manner that minimizes this risk. The tool's Kickback Brake and E-CLUTCH system are designed to reduce this risk, but proper technique is essential.
- **Battery Safety:** Use only specified battery packs and chargers. Do not expose batteries to water or extreme temperatures.
- **Ventilation:** Ensure adequate ventilation when working in enclosed spaces, especially when generating dust or fumes.

Setup and Assembly

Before initial use, ensure all components are present and properly assembled. The tool is supplied with a side handle, a 4-1/2" (115mm) Type 27 Guard, and a 6" (150mm) Type 27 Guard.

1. **Attaching the Side Handle:**

   The side handle can be screwed into either side of the gear case for left or right-handed operation. Ensure it is tightened securely before use.



Image: Side view of the DEWALT FLEXVOLT 60V MAX* Angle Grinder, illustrating the attachment points for the side handle.

2. **Installing the Guard:**

   Select the appropriate guard (4-1/2" or 6") for your wheel size. Align the guard with the tool's collar and rotate it until it locks into position. Ensure the guard is positioned to deflect sparks and debris away from the operator.



Image: The DEWALT FLEXVOLT 60V MAX* Angle Grinder with a protective guard installed, ready for operation.

3. **Attaching the Wheel:**

   Place the inner flange onto the spindle, then place the grinding or cutting wheel onto the spindle. Secure the wheel with the outer flange and tighten it using the provided wrench. Ensure the wheel is seated correctly and spins freely without wobble.

4. **Inserting the Battery:**

   Insert a charged DEWALT FLEXVOLT 60V MAX* battery pack into the battery port until it clicks into place. (Battery sold separately).

Operating Instructions

The DEWALT FLEXVOLT 60V MAX* Angle Grinder is designed for grinding and cutting metal and masonry materials. Always ensure proper safety gear is worn.

- **Starting the Tool:** To start the grinder, depress the trigger switch. The tool will reach its maximum rotational speed of 9,000 RPM.
- **Stopping the Tool:** Release the trigger switch to stop the tool. The integrated brake engages, stopping the wheel within approximately 1.5 seconds when using a standard grinding wheel (4-1/2-inch x 1/4-inch bonded abrasive wheel, non-hubbed).
- **Kickback Brake Feature:** This safety feature engages when a pinch, stall, or bind-up event is detected. The electronic brake applies maximum force to quickly stop the wheel, reduce tool movement, and shut off the grinder.
- **Anti-Rotation E-CLUTCH System:** This system activates in less than a tenth of a second if a pinch or stall is detected, shutting down the motor to prevent uncontrolled rotation of the tool.
- **Grinding Technique:** Apply light, even pressure. Allow the tool to do the work. Avoid excessive pressure, which can overload the motor and reduce wheel life.
- **Cutting Technique:** For cutting, use a thin cutting wheel and make shallow passes. Do not apply side pressure to the cutting wheel.

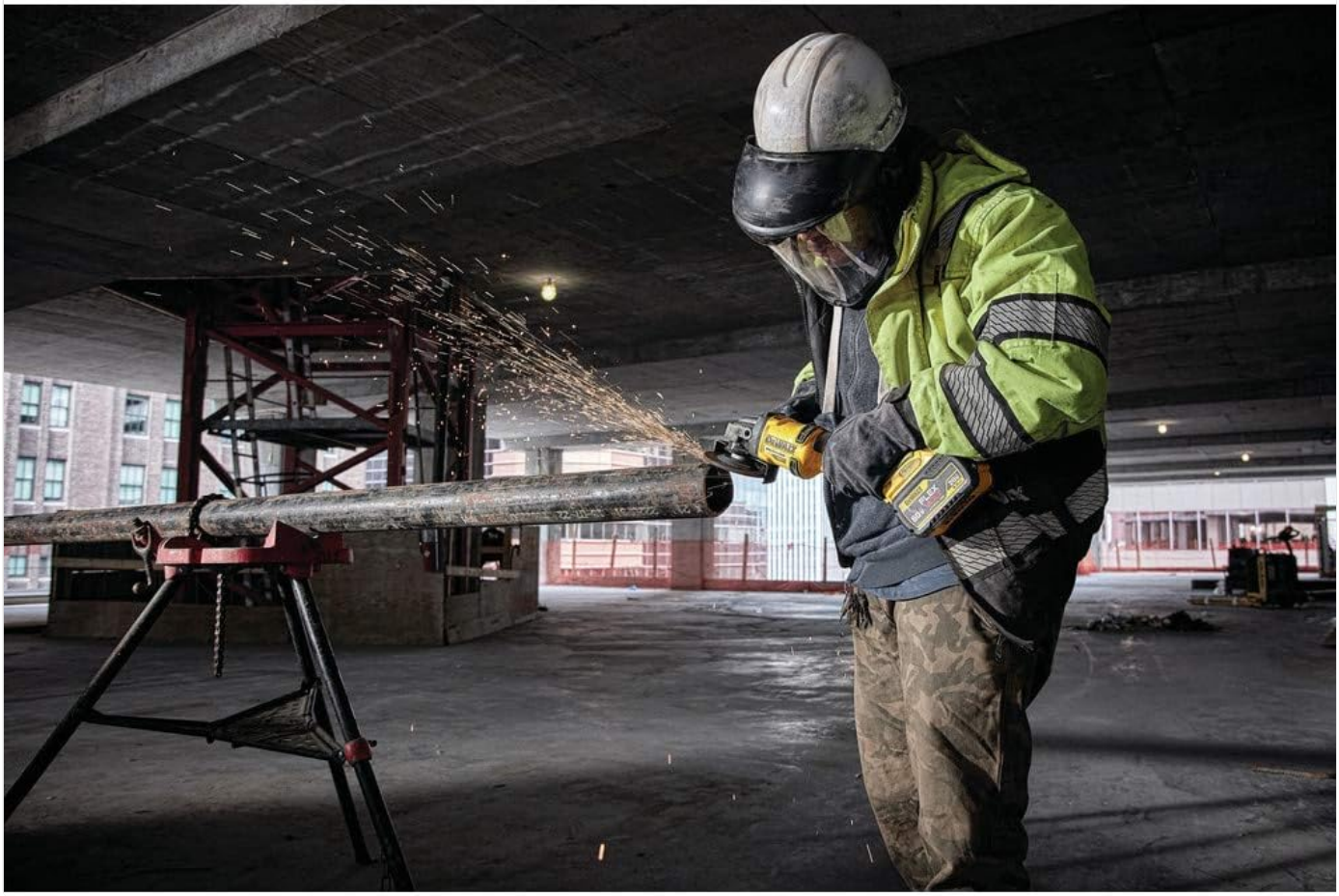


Image: A worker utilizing the DEWALT FLEXVOLT 60V MAX* Angle Grinder to cut a metal pipe, demonstrating a typical application.

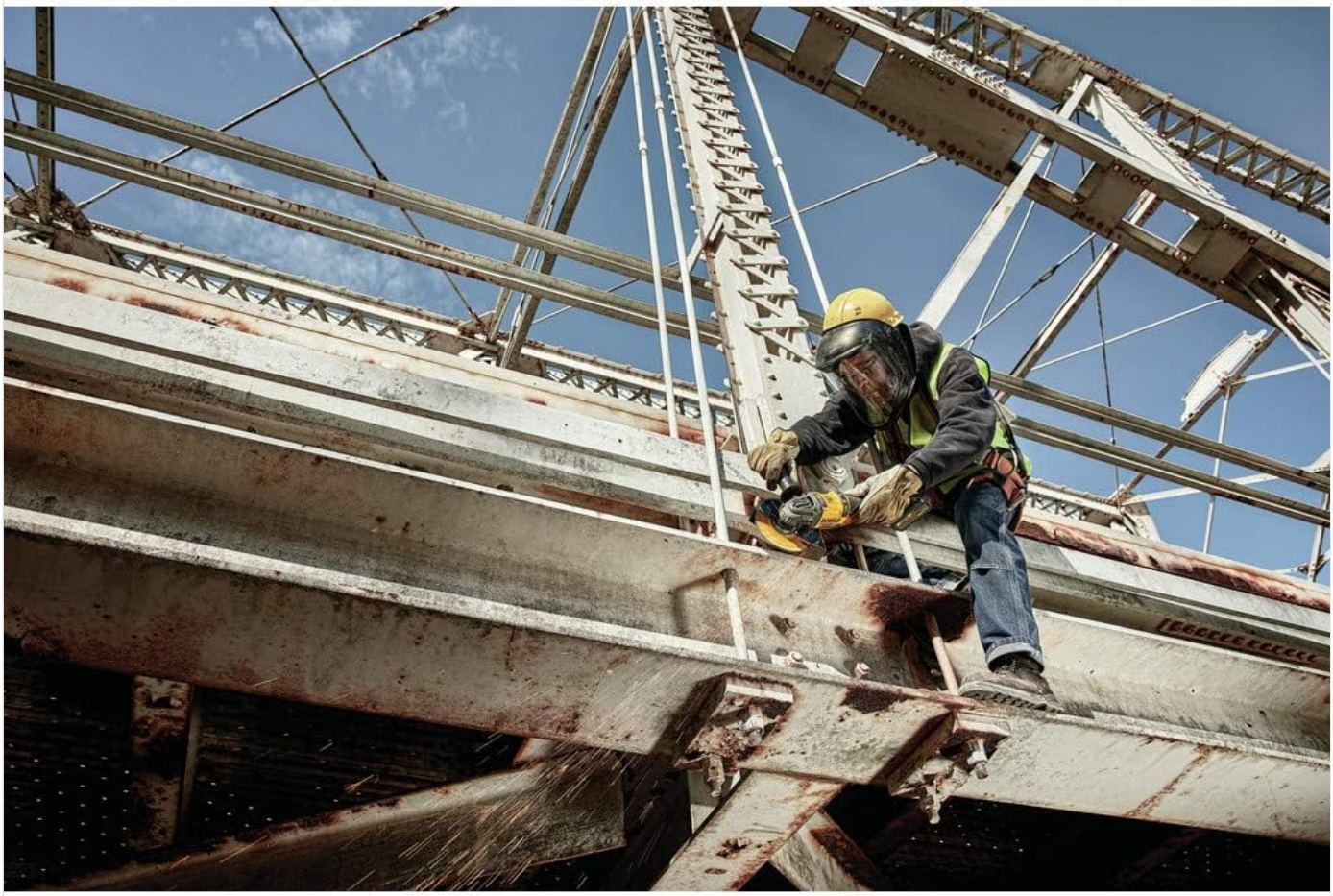


Image: An individual operating the DEWALT FLEXVOLT 60V MAX* Angle Grinder on a large metal structure, showcasing its use in heavy-duty applications.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** Periodically blow dirt and dust out of the main housing with dry air. Do not use solvents or harsh chemicals.
- **Brushless Motor:** This tool features a brushless motor, eliminating the need for brush replacement.
- **Inspection:** Regularly inspect the power cord (if applicable, though this is cordless), switch, and guards for damage. Replace damaged parts immediately.
- **Wheel Replacement:** Replace worn or damaged grinding/cutting wheels promptly. Always use wheels rated for the tool's maximum RPM.
- **Storage:** Store the tool in a dry, secure location out of reach of children. Remove the battery pack when storing.

Troubleshooting

This section addresses common issues you might encounter with your angle grinder.

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or not inserted correctly.	Ensure battery is fully charged and properly seated.
Tool stops during operation.	Overload, Kickback Brake, or E-CLUTCH activated.	Reduce pressure. Check for binding. Release and re-engage trigger.
Excessive vibration.	Damaged or improperly installed wheel.	Inspect wheel for damage; replace if necessary. Ensure wheel is properly seated and tightened.
Reduced performance.	Dull wheel or battery charge low.	Replace wheel. Recharge battery.

Specifications

Attribute	Detail
Brand	DEWALT
Model Number	DCG414B
Power Source	Battery Powered (60 Volts)
Motor Type	Brushless
Maximum Rotational Speed	9000 RPM
Wheel Size Capacity	Up to 6 inches (115mm - 150mm)
Item Weight	4.7 Pounds
Product Dimensions (L x W x H)	4.7" x 7.1" x 4.53"
Included Components	(1) DCG414 Grinder, (1) Side Handle, (1) 4-1/2" (115mm) Type 27 Wheel, (1) 4-1/2" (115mm) Type 27 Guard, (1) 6" (150mm) Type 27 Guard, Wrench, Flange

Attribute	Detail
Battery Required	Yes (1 Lithium Ion battery, sold separately)



Image: A diagram illustrating the dimensions of the DEWALT FLEXVOLT 60V MAX* Angle Grinder, indicating a height of approximately 14 inches (36 cm) with battery.

Warranty and Support

This DEWALT product comes with a**3-year limited warranty**. For detailed warranty information, terms, and conditions, please refer to the official DEWALT warranty statement or visit the official DEWALT website.
For technical support, service, or to locate an authorized service center, please visit the official DEWALT website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.
Official DEWALT Website: www.dewalt.com

Official Product Videos

Based on the provided product data, there are no official seller-created videos available for embedding in this manual. Please refer to the manufacturer's website for any available video resources.

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