

## DEWALT DWS716XPS

# DEWALT 12-Inch Double Bevel Compound Miter Saw (DWS716XPS) User Manual

Model: DWS716XPS

## 1. PRODUCT OVERVIEW

The DEWALT DWS716XPS 12-Inch Double Bevel Compound Miter Saw is a powerful and versatile tool designed for precise cutting applications. Powered by a 15 Amp motor delivering 3,800 rpm, it features a stainless-steel miter detent plate with 14 positive stops and a cam miter lock system for repeatable accuracy and durability. Its tall sliding fences support large moldings, and the integrated CUTLINE™ LED work light system provides clear cut line indication.

### Key Features:

- **Stainless-steel miter detent plate:** Features 14 positive stops for repeatable accuracy and durability.
- **Tall sliding fences:** Supports crown molding up to 6-5/8 inches nested and base molding up to 6-1/2 inches vertically against the fence.
- **Double-bevel design:** Allows the saw to bevel 0 to 48 degrees to the left and right, with positive stops at 0, 22.5, 33.9, and 45 degrees.
- **Wide miter capacity:** Offers 0 to 50 degrees left and right miter capacity.
- **Cam lock miter handle:** Provides quick and accurate miter angle adjustments with a detent override.
- **Integrated CUTLINE™ LED work light system:** Delivers adjustment-free cut line indication for enhanced accuracy and visibility.

## 2. SETUP

Before operating your DEWALT DWS716XPS miter saw, ensure it is properly set up and secured. Always refer to the full safety instructions provided in the separate safety manual.

### Unpacking and Assembly:

1. Carefully remove all components from the packaging.

2. Inspect the saw for any damage that may have occurred during shipping.
3. Ensure all included components are present: DWS716XPS Saw, 12" Carbide tipped blade, wrench, dust bag, and vertical clamp.
4. Mount the saw securely to a stable workbench or a compatible miter saw stand.
5. Install the 12-inch carbide-tipped blade using the provided wrench, ensuring it is tightened correctly and the blade guard operates freely.
6. Attach the dust bag to the dust port for efficient dust collection during operation.



Figure 2.1: The DEWALT DWS716XPS 12-Inch Double Bevel Compound Miter Saw, ready for use.

# INCLUDES

## TOOL - DWS716XPS

(1) DWS716XPS 15 AMP 12 IN. CORDED DOUBLE-BEVEL COMPOUND MITER SAW WITH CUTLINE™, (1) 12 IN. CARBIDE-TIPPED BLADE, (1) WRENCH, (1) DUST BAG, (1) VERTICAL CLAMP



Figure 2.2: Overview of the miter saw highlighting its 3,800 RPM motor, XPS Cutline Positioning System, 0-48° bevel range, and 41 lbs weight.

### 3. OPERATING INSTRUCTIONS

Familiarize yourself with the saw's controls and features before making any cuts. Always wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and a dust mask.

#### Miter Angle Adjustment:

- To adjust the miter angle, depress the miter detent override lever and rotate the miter table to the desired angle (0-50 degrees left or right).
- The stainless-steel detent plate provides 14 positive stops for common angles. For angles between detents, use the cam lock miter handle to secure the table.



Figure 3.1: The cam lock miter handle allows for quick and secure adjustment of miter angles.



Figure 3.2: The miter scale clearly shows the 14 positive stops for common cutting angles.

### Bevel Angle Adjustment:

- The double-bevel design allows the saw head to tilt 0 to 48 degrees to both the left and right.

- Loosen the bevel lock knob, tilt the saw head to the desired angle, and then tighten the knob to secure. Positive stops are available at 0, 22.5, 33.9, and 45 degrees.



Figure 3.3: The double-bevel design allows for tilting the saw head up to 48 degrees in both directions.



Figure 3.4: The miter saw positioned for a bevel cut, demonstrating its versatility.

### Using the XPS Cutline™ LED System:

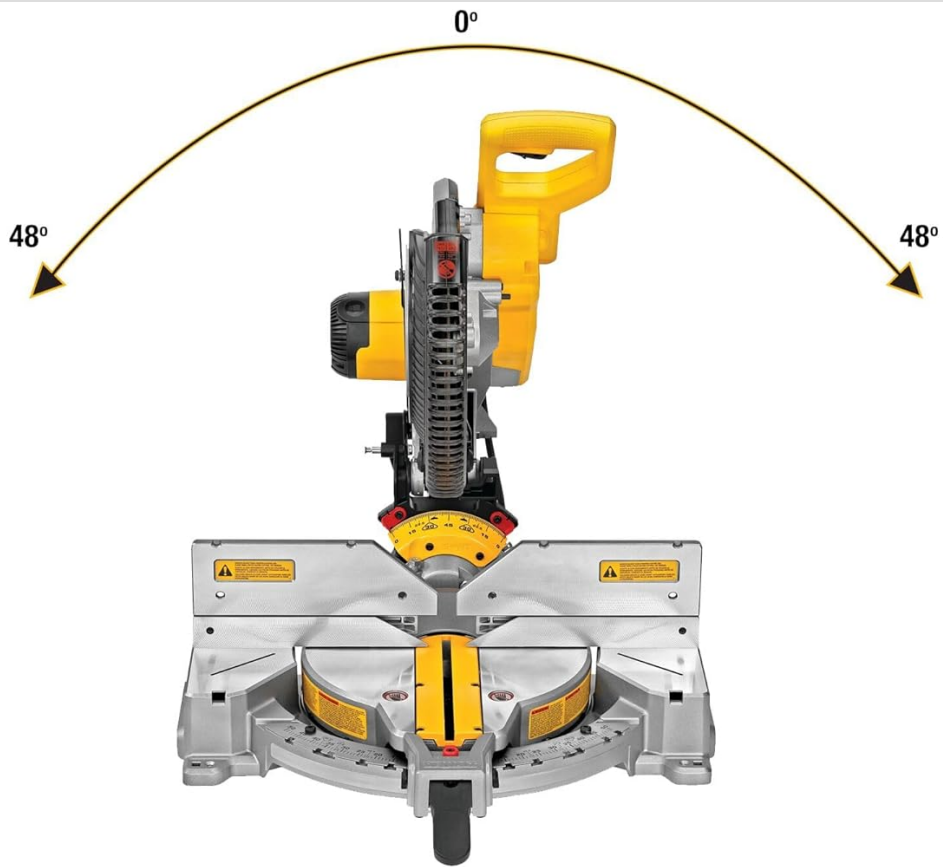
- The integrated LED light casts a shadow of the blade onto the workpiece, indicating the exact cut line.
- Activate the XPS system by pressing the dedicated switch. This system requires no adjustment and remains accurate regardless of blade changes or saw movement.



Figure 3.5: The XPS Cutline LED system projects a shadow of the blade for precise cut line indication.

### Cutting Operation:

- Place the workpiece firmly against the fence and table. Use the vertical clamp for added stability if needed.
- Align the desired cut mark with the XPS LED cut line.
- Start the saw and allow the blade to reach full speed before slowly lowering it through the material.
- For wider materials, utilize the tall sliding fences to support the workpiece.



# 0 - 48° DOUBLE-BEVEL DESIGN

Figure 3.6: A user making a cut, demonstrating the use of the tall sliding fences for material support.



Figure 3.7: The vertical clamp is used to firmly hold the workpiece in place during cutting for increased safety and precision.



Figure 3.8: The saw's capacity and adjustable fences make it suitable for cutting intricate crown molding.

## 4. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your miter saw. Always disconnect the saw from the power source before performing any maintenance.

### Blade Care:

- Regularly inspect the 12-inch carbide-tipped blade for sharpness and damage. Replace dull or damaged blades promptly.
- Clean resin and pitch buildup from the blade using a suitable blade cleaner.

### Dust Collection:

- Empty the dust bag frequently to maintain efficient dust collection and prevent buildup that could affect saw performance.
- Periodically clean the dust port and internal dust channels to ensure unobstructed airflow.

### General Cleaning:

- Keep the saw clean and free of sawdust and debris. Use a brush or compressed air to clean hard-to-reach areas.
- Lubricate moving parts as recommended in the detailed product manual to ensure smooth operation.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your miter saw. For more complex problems, contact DEWALT customer support.

### Common Issues:

- **Saw not starting:** Check power connection, circuit breaker, and ensure the safety switch is engaged.
- **Inaccurate cuts:** Verify miter and bevel angle settings. Ensure the workpiece is securely clamped and the blade is sharp and correctly installed.
- **Excessive dust:** Check if the dust bag is full or if the dust port/channels are clogged.
- **Blade binding:** Ensure the workpiece is properly supported and not twisting during the cut. Check for a dull or damaged blade.

## 6. SPECIFICATIONS

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Brand	DEWALT
Model Number	DWS716XPS
Power Source	Corded Electric
Voltage	120V
Current Rating	15 Amps
Speed	3,800 rpm
Blade Length	12 Inches
Blade Material	Stainless Steel

<b>Number of Teeth</b>	30
<b>Miter Capacity</b>	0-50 Degrees Left & Right
<b>Bevel Capacity</b>	0-48 Degrees Left & Right
<b>Item Weight</b>	49 Pounds
<b>Item Dimensions (L x W x H)</b>	27.17" x 22.44" x 19.88"
<b>Included Components</b>	DWS716XPS Saw; 12" Carbide tipped blade; wrench; dust bag; vertical clamp

## 7. WARRANTY & SUPPORT

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### Warranty Information:

This DEWALT miter saw comes with a limited warranty. Please refer to the warranty card included with your product for specific terms, conditions, and duration of coverage. Keep your purchase receipt as proof of purchase for warranty claims.

### Customer Support:

For technical assistance, replacement parts, or service, please contact DEWALT customer support. Contact information can typically be found on the DEWALT official website or in your product documentation.