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› IRWIN QUICK-GRIP XP 150mm Clamp Model 10505942 User Manual

## IRWIN 10505942

# IRWIN QUICK-GRIP XP 150mm Clamp User Manual

Model: 10505942

## 1. INTRODUCTION

Thank you for choosing the IRWIN QUICK-GRIP XP 150mm Clamp. This innovative one-hand bar clamp is engineered for efficient woodworking and various clamping applications. It offers superior clamping force and versatile features designed to enhance your productivity and safety. Please read this manual thoroughly before use to ensure proper operation and maintenance.

## 2. SAFETY INFORMATION

Always observe basic safety precautions when using power tools and accessories. Failure to do so may result in serious personal injury or damage to property.

- Wear appropriate personal protective equipment, such as safety glasses, when operating tools.
- Ensure the workpiece is securely clamped before beginning any work.
- Do not over-tighten the clamp beyond its rated capacity.
- Keep hands and fingers clear of moving parts and the clamping jaws during operation.
- Store clamps in a clean, dry place away from children.

## 3. PRODUCT OVERVIEW

The IRWIN QUICK-GRIP XP 150mm Clamp is designed for robust performance and ease of use. Key features include:

- **High Clamping Force:** Delivers approximately 250 kg of clamping force.
- **Versatile Jaws:** Features non-marring pads to protect workpieces and a swivel jaw with a lock function to accommodate irregular shapes.
- **Spreading Capability:** Easily converts for spreading (expansion) tasks.
- **One-Hand Operation:** Designed for quick and easy adjustments with one hand.
- **Quick Release:** Smooth and safe release mechanism to prevent finger injury.

- **Durable Construction:** Built with a strong, bend-resistant structure (HRC-50~55).



Figure 1: Overview of the IRWIN QUICK-GRIP XP 150mm Clamp. This image displays the full clamp in its standard clamping configuration, highlighting its blue and black design and the IRWIN QUICK-GRIP branding.



Figure 2: Xtreme Pressure 250kg rating. This logo indicates the high clamping force capability of the IRWIN QUICK-GRIP XP clamp.

#### 4. SETUP

The IRWIN QUICK-GRIP XP 150mm Clamp is ready for use out of the box for most clamping applications. No

assembly is typically required for basic clamping.

#### 4.1 Adjusting Jaw Position

1. Press the quick-release button located on the movable jaw.
2. Slide the movable jaw along the bar to the desired position, slightly wider than your workpiece.
3. Release the button to lock the jaw in place.

### 5. OPERATING INSTRUCTIONS

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#### 5.1 Clamping Operation

1. Position the clamp with the fixed jaw against one side of the workpiece.
2. Adjust the movable jaw close to the other side of the workpiece (refer to Section 4.1).
3. Squeeze the trigger handle repeatedly until the workpiece is securely clamped. The non-marring pads will protect the surface.
4. To release, press the quick-release trigger located on the handle.



Figure 3: Clamp securing a workpiece. This image shows the IRWIN QUICK-GRIP XP clamp holding a wooden board to a workbench, demonstrating its clamping function during a routing operation.

#### 5.2 Spreading Operation

The clamp can be converted into a spreader for expansion tasks.

1. Locate the screw on the fixed jaw (the end opposite the handle).

2. Loosen this screw to detach the fixed jaw from the bar.
3. Re-attach the fixed jaw to the opposite end of the bar, ensuring it is securely fastened.
4. Position the converted spreader between the two surfaces you wish to expand.
5. Squeeze the trigger handle to apply outward pressure and spread the surfaces.
6. To return to clamping mode, reverse these steps.



Figure 4: Clamp configured for spreading. This image illustrates the IRWIN QUICK-GRIP XP clamp being used to push apart two wooden pieces, demonstrating its spreading functionality.

### 5.3 Swivel Jaw Function

The swivel jaw allows the clamp to adapt to irregular shapes, providing even pressure. To lock the swivel jaw in a specific angle, ensure the workpiece is firmly held, and the jaw will naturally conform and hold its position.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your IRWIN QUICK-GRIP XP Clamp.

- **Cleaning:** After each use, wipe down the clamp with a dry cloth to remove dust, sawdust, and debris. For stubborn grime, a damp cloth can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a small amount of light machine oil to the slide bar to ensure smooth operation of the movable jaw. Avoid over-lubricating.
- **Inspection:** Regularly inspect the clamp for any signs of wear, damage, or loose components. Pay attention to the pads, trigger mechanism, and the bar. Replace worn parts if necessary.
- **Storage:** Store the clamp in a clean, dry environment. Avoid exposing it to extreme temperatures or corrosive substances.

## 7. TROUBLESHOOTING

If you encounter issues with your clamp, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Clamp not holding workpiece securely	Insufficient trigger squeezes; Worn pads; Workpiece too large for clamp capacity	Squeeze trigger more times; Replace pads; Use a larger clamp
Movable jaw sticks or is difficult to slide	Dirt/debris on slide bar; Lack of lubrication; Damaged bar	Clean slide bar; Apply light machine oil; Inspect for damage and replace if necessary
Release mechanism is stiff	Accumulated debris; Lack of lubrication	Clean the release mechanism area; Apply a small amount of lubricant

## 8. SPECIFICATIONS

Feature	Specification
Brand	IRWIN
Model Number	10505942
Clamping Width	150 mm
Spreading Width	230 - 370 mm
Pad Height (Throat Depth)	92 mm
Maximum Clamping Force	250 kg
Product Dimensions (L x W x H)	15 x 10 x 2 mm (Note: This dimension may refer to packaging or a specific component, not the full clamp.)
Product Weight	1.22 g (Note: This weight appears to be a typo in the source data and likely refers to 1.22 kg for a tool of this type.)
UPC	791429421711

## 9. WARRANTY AND SUPPORT

IRWIN tools are manufactured to high-quality standards. For warranty information or technical support, please refer to the official IRWIN website or contact your local distributor. Keep your purchase receipt as proof of purchase.