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› Wiltec Welding Magnets Set (6-Piece) - 11kg, 20kg, 32kg Holding Force, Model 65553

WiiTec 65553

Wiltec Welding Magnets Set (6-Piece) - 11kg, 20kg, 32kg Holding Force

Model: 65553

1. INTRODUCTION

This manual provides instructions for the safe and effective use of your Wiltec Welding Magnets Set. These magnets are designed to securely hold metal workpieces at various angles (45°, 90°, and 135°) during welding, soldering, and other metalworking tasks. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: Wiltec Welding Magnets Set, illustrating different sizes and their application in holding metal for welding.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions when using welding magnets:

- Keep magnets away from sensitive electronic devices, credit cards, pacemakers, and other items that can be damaged by magnetic fields.
- Avoid pinching fingers or skin between magnets or between a magnet and a metal surface.
- Do not expose magnets to excessive heat, as this can reduce their magnetic strength.
- Wear appropriate personal protective equipment (PPE) when welding or soldering, including safety glasses, gloves, and protective clothing.
- Ensure the workpiece is stable and properly secured before beginning any work.
- Handle magnets with care to prevent chipping or breaking, which can create sharp edges.

3. PACKAGE CONTENTS

Your Wiltec Welding Magnets Set includes the following items:

- 2 x Welding Magnets with 11 kg (24.25 lbs) holding force
- 2 x Welding Magnets with 20 kg (44.09 lbs) holding force
- 2 x Welding Magnets with 32 kg (70.55 lbs) holding force



Figure 2: The three sizes of welding magnets included in the set, indicating their holding capacities.

4. SETUP

The Wiltec Welding Magnets are ready for immediate use. No assembly is required. Simply select the appropriate magnet size and holding force for your workpiece.

1. **Inspect Magnets:** Before each use, inspect the magnets for any signs of damage or wear. Do not use damaged

magnets.

2. **Clean Workpiece:** Ensure the metal workpiece surfaces are clean and free of rust, oil, or debris to maximize magnetic adhesion.
3. **Select Magnet:** Choose a magnet with sufficient holding force for the weight and size of your workpiece.

5. OPERATING INSTRUCTIONS

These welding magnets are designed to hold metal pieces at precise angles for various metalworking applications.

5.1 Positioning Workpieces

1. **Angle Selection:** The magnets are designed with multiple edges to provide 45°, 90°, and 135° angles. Position the magnet against your workpiece to achieve the desired angle.
2. **Secure Placement:** Place the magnet firmly against the metal surfaces of the workpieces you wish to join. The strong magnetic force will hold them in position.
3. **Multiple Magnets:** For larger or heavier workpieces, use multiple magnets to ensure stability and prevent movement during work.

Ideal zum Schweißen verschiedener Winkel



Figure 3: Magnets demonstrating their ability to hold workpieces at 45°, 90°, and 135° angles.

5.2 Magnetic Holding Force

The magnets provide strong holding force to keep your workpieces stable. The set includes magnets with 11 kg, 20 kg, and 32 kg holding capacities, allowing you to choose the appropriate strength for your task.

Starke Magnetkraft



Figure 4: Visual representation of the strong magnetic force provided by the welding magnets.

Entmagnetisierungsfunktion



Figure 5: An example of magnetic attraction, showing a screwdriver being held by a magnet.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your welding magnets.

- **Cleaning:** Wipe the magnets clean with a dry cloth after each use to remove metal dust, filings, or debris. Do not use abrasive cleaners or solvents.
- **Storage:** Store magnets in a dry place, away from direct heat and strong magnetic fields that could affect other devices. Keep them separated from each other if possible, or stack them carefully to prevent damage.
- **Inspection:** Regularly check for any physical damage, such as cracks or chips. Replace any damaged magnets immediately.

Schutzplatten



Figure 6: Welding magnet, illustrating its robust construction for durability.

7. TROUBLESHOOTING

If you encounter issues with your welding magnets, refer to the following common solutions:

- **Weak Holding Force:**

- Ensure the workpiece surface is clean and free of contaminants.
- Verify that the magnet is making full contact with the metal surface.
- Use a larger magnet or additional magnets for heavier workpieces.
- Check if the magnet has been exposed to excessive heat, which can demagnetize it.

- **Magnet Not Sticking:**

- Confirm the workpiece is made of a ferromagnetic material (e.g., steel, iron).
- Ensure there is no non-magnetic material (e.g., paint, plastic, aluminum) between the magnet and the

workpiece.

8. SPECIFICATIONS

Feature	Detail
Brand	Wiltec
Model Number	65553
Holding Force	2 x 11 kg (24.25 lbs), 2 x 20 kg (44.09 lbs), 2 x 32 kg (70.55 lbs)
Angles Supported	45°, 90°, 135°
Material	Durable magnetic material with protective casing
Color	Red
Package Dimensions	67.8 x 16.5 x 3 cm (approx. 26.7 x 6.5 x 1.2 inches)
Total Weight	3.96 kg (approx. 8.73 lbs)

Abmessungen des Produkts

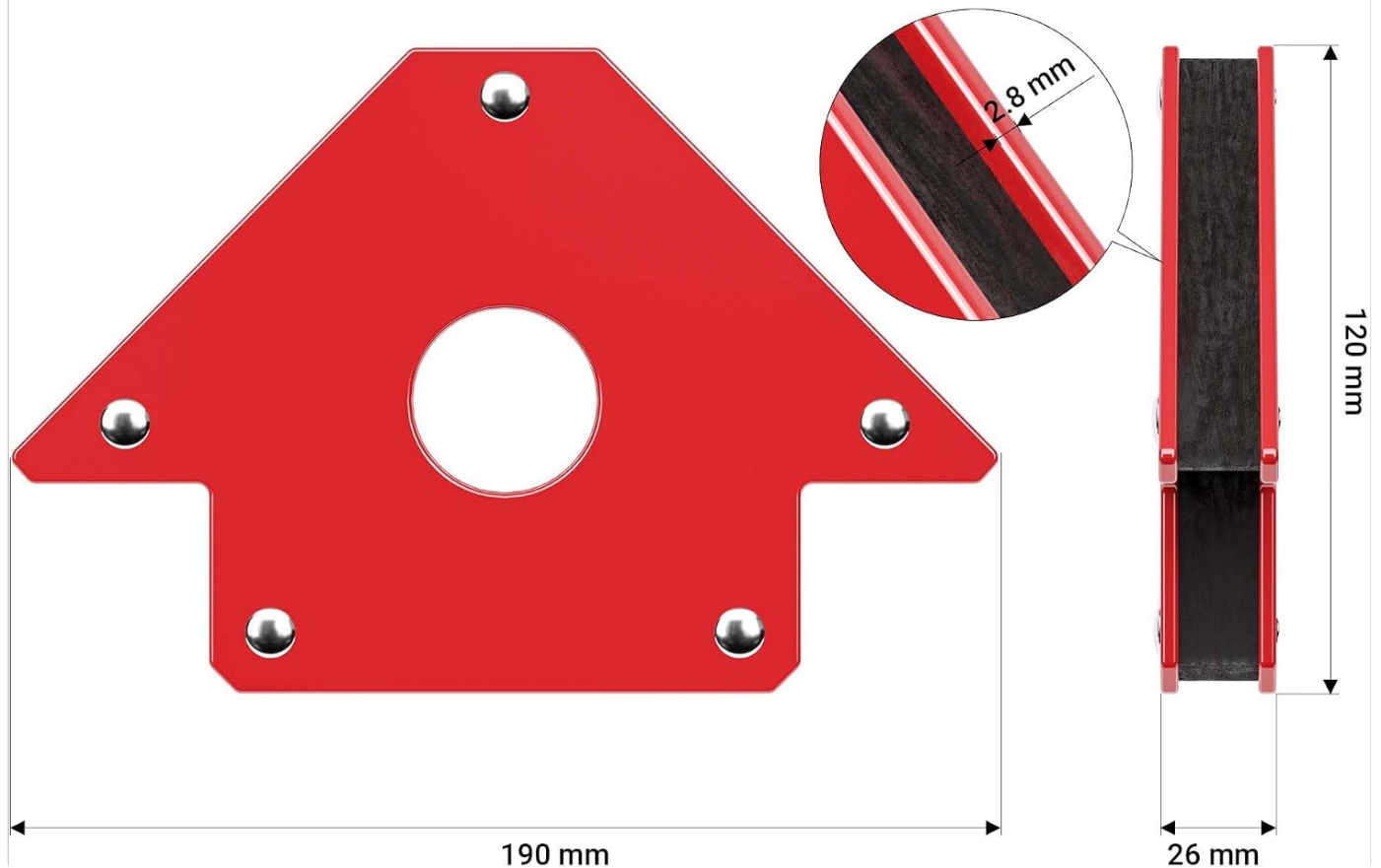


Figure 7: Dimensions of one of the welding magnets (largest size shown: 190x120x26 mm).

9. WARRANTY & SUPPORT

For warranty information or technical support, please contact Wiltec customer service. Details can typically be found on the product packaging or the official Wiltec website.

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