

MICHELIN 6035000046

MICHELIN Pneumatic Straight Grinder Kit Instruction Manual

Model: 6035000046

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your MICHELIN Pneumatic Straight Grinder Kit. Please read and understand all instructions before using the tool. Keep this manual for future reference.

The MICHELIN Straight Grinder is a versatile pneumatic tool designed for various applications including deburring, polishing, sanding, and chamfering. It operates using compressed air and is suitable for professional and DIY use.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the workpiece is securely clamped before grinding.
- Disconnect the air supply before changing accessories, performing maintenance, or when the tool is not in use.
- Do not exceed the maximum operating speed of the grinding accessories.
- Maintain a clean and well-lit work area.
- Keep children and bystanders away from the operating area.
- Never point the tool at yourself or others.
- Inspect the tool and accessories for damage before each use. Do not use damaged equipment.
- Use only genuine MICHELIN accessories or those approved for use with this grinder.
- Ensure the air compressor provides clean, dry, regulated air at the specified pressure.

3. PACKAGE CONTENTS

The MICHELIN Pneumatic Straight Grinder Kit includes the following items:

- 1 x MICHELIN Pneumatic Straight Grinder
- 10 x Assorted Grinding Stones
- 1 x 3mm Mandrel
- 1 x 6mm Mandrel
- 2 x Wrenches
- 1 x Carrying and Storage Case
- 1 x Instruction Manual (this document)



Image: The MICHELIN Straight Grinder Kit, including the grinder, various grinding stones, mandrels, and wrenches, neatly organized within its carrying case.

4. SETUP

1. **Prepare Air Supply:** Connect your air compressor to a suitable air hose. Ensure the compressor is capable of providing 6 bar (90 PSI) operating pressure and an air consumption of 150-170 L/min. An in-line air filter/lubricator is recommended to ensure clean, dry, regulated air for optimal tool performance and longevity.
2. **Connect Air Hose:** Attach the air hose to the air inlet fitting on the straight grinder. Ensure a secure connection to prevent air leaks.
3. **Select and Install Grinding Stone:**
 - Choose the appropriate grinding stone and mandrel (3mm or 6mm) for your application.
 - Insert the mandrel of the grinding stone into the collet of the grinder.
 - Using the provided wrenches, tighten the collet nut securely to hold the grinding stone in place. Do not overtighten.



Image: A hand demonstrates the process of inserting a grinding stone, attached to a mandrel, into the collet of the MICHELIN straight grinder. The collet nut is visible, ready for tightening.

4. **Initial Air Test:** Before operating on a workpiece, briefly connect the air supply and activate the grinder in a safe direction to ensure the grinding stone is securely attached and rotates smoothly without wobble.

5. OPERATING INSTRUCTIONS

1. **Secure Workpiece:** Always ensure the material you are working on is firmly secured to prevent movement during operation.
2. **Grip the Tool:** Hold the straight grinder firmly with both hands if possible, or with one hand ensuring a stable grip. The ergonomic design provides comfortable handling.
3. **Activate the Grinder:** Press the trigger to start the grinder. The tool will reach its maximum speed of 22,000 RPM quickly.
4. **Begin Grinding:** Apply the rotating grinding stone to the workpiece with light, even pressure. Avoid excessive force, which can damage the stone, the tool, or the workpiece.
5. **Control and Movement:** Move the grinder smoothly across the surface to achieve an even finish. For

deburring or chamfering, use controlled movements along the edge.

6. **Monitor Performance:** Listen for unusual noises or vibrations, which may indicate a problem with the grinding stone or the tool.
7. **Finish Operation:** Release the trigger to stop the grinder. Wait for the grinding stone to come to a complete stop before setting the tool down.



Image: A hand firmly grips the MICHELIN straight grinder during operation, demonstrating its compact and ergonomic design for ease of use.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your MICHELIN Straight Grinder.

- **Daily:**

- Disconnect from air supply after each use.
- Clean the tool body with a dry cloth to remove dust and debris.
- Inspect grinding stones for wear or damage. Replace as needed.

- **Weekly/Monthly (depending on usage):**

- Add a few drops of pneumatic tool oil into the air inlet before storage or extended periods of non-use. This lubricates internal components.
- Check air hose and connections for wear or leaks.
- Ensure the air compressor's filter is clean and the air supply is dry to prevent moisture damage to the tool.

- **Storage:** Store the grinder and its accessories in the provided carrying case in a dry, clean environment, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start or runs slowly.	Low air pressure; Air leak; Clogged air inlet; Lack of lubrication.	Check compressor pressure (should be 6 bar); Inspect air connections for leaks; Clean air inlet; Lubricate tool with pneumatic oil.
Excessive vibration.	Grinding stone loose or damaged; Bent mandrel; Worn bearings.	Tighten collet nut; Replace damaged grinding stone or bent mandrel; If problem persists, seek professional service.
Air leaks from tool body.	Loose fittings; Damaged O-rings/seals.	Tighten all external fittings; If internal leaks, seek professional service.
Poor grinding performance.	Worn or incorrect grinding stone; Insufficient air pressure.	Replace grinding stone; Ensure correct stone for material; Check air pressure.

8. SPECIFICATIONS

Feature	Detail
Model Number	6035000046 (also 1126000741)
Manufacturer	Michelin
Power Source	Pneumatic (Compressed Air)
Operating Pressure	6 bar (90 PSI)
Air Consumption	150-170 Liters per minute
Max Rotation Speed	22,000 RPM
Product Dimensions (L x W x H)	24 x 6 x 21 cm (9.4 x 2.4 x 8.3 inches)
Weight	997.9 grams (2.2 lbs)
Collet Sizes	3mm, 6mm
Included Accessories	10 Grinding Stones, 2 Mandrels, 2 Wrenches, Carrying Case
Recommended Uses	Deburring, Polishing, Sanding, Chamfering, Sharpening



Image: An infographic highlighting the main features of the MICHELIN Straight Grinder, including its working pressure of 6 bar, air consumption of 170 L/min, speed of 25,000 RPM (note: specifications state 22,000 RPM, please refer to the specifications table for accurate speed), and the inclusion of 10 grindstones.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please contact MICHELIN customer service. Refer to the product packaging or the official MICHELIN website for the most current contact details.

Please have your product model number (6035000046) and purchase date available when contacting support.