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› PROXXON Milling Motor No.20160 Instruction Manual

PROXXON NO.20160

PROXXON Milling Motor No.20160 Instruction Manual

Brand: PROXXON | Model: NO.20160

1. PRODUCT OVERVIEW

The PROXXON Milling Motor No.20160 is a versatile power tool designed for precision milling and drilling tasks. It is engineered for durability and ease of use, making it suitable for various crafting and workshop applications. This manual provides essential information for safe and effective operation.



Image: PROXXON Milling Motor No.20160, a compact and robust milling motor.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury and damage to the tool:

- Read and understand all instructions before operating the milling motor.
- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the workpiece is securely clamped before starting any operation.
- Keep hands and loose clothing away from rotating parts.
- Disconnect power before changing accessories or performing maintenance.
- Do not operate the tool in damp or wet conditions.
- Keep the work area clean and well-lit.

3. COMPONENTS

The PROXXON Milling Motor No.20160 typically includes:

- Milling Motor Unit
- Power Cable
- Collets (various sizes, if included)
- Wrenches for collet changes
- Instruction Manual

4. SETUP AND INSTALLATION

1. **Unpacking:** Carefully remove all components from the packaging. Check for any damage or missing parts.
2. **Mounting:** Securely mount the milling motor to a suitable stand or drill press using appropriate clamps or mounting hardware. Ensure the mounting is stable and free from vibration.
3. **Power Connection:** Connect the power cable to the milling motor and then to a grounded power outlet. Verify that the voltage matches the tool's requirements.
4. **Collet and Bit Installation:**
 - Ensure the power is disconnected.
 - Select the correct collet size for your milling bit.
 - Insert the collet into the spindle nut, then thread the nut onto the spindle.
 - Insert the milling bit into the collet and tighten the spindle nut firmly with the provided wrenches. Do not overtighten.

5. OPERATING INSTRUCTIONS

1. **Workpiece Preparation:** Securely clamp your workpiece to the worktable. Ensure it is stable and will not move during operation.
2. **Speed Adjustment:** Adjust the rotational speed of the milling motor according to the material being worked on

and the type of bit used. Refer to the bit manufacturer's recommendations.

3. **Starting the Motor:** Turn on the milling motor using the ON/OFF switch. Allow it to reach full speed before engaging the workpiece.
4. **Milling/Drilling:** Slowly and steadily bring the rotating bit into contact with the workpiece. Apply even pressure and avoid forcing the tool. For milling, move the workpiece or the motor along the desired path.
5. **Stopping the Motor:** Once the operation is complete, lift the bit clear of the workpiece and turn off the motor. Wait for the bit to stop rotating completely before touching it or the workpiece.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your milling motor:

- **Cleaning:** After each use, clean the motor housing and spindle area with a soft, dry cloth. Remove any dust, chips, or debris. Do not use solvents.
- **Lubrication:** Periodically apply a small amount of light machine oil to moving parts as indicated in the detailed product manual (if applicable).
- **Carbon Brushes:** Check the carbon brushes regularly. Replace them when they are worn down to the minimum length specified in the full product manual.
- **Storage:** Store the milling motor in a dry, clean place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

| Problem | Possible Cause | Solution |
|----------------------|---|---|
| Motor does not start | No power supply, faulty switch, worn carbon brushes | Check power connection, inspect switch, replace carbon brushes |
| Excessive vibration | Unbalanced bit, loose mounting, worn bearings | Check bit balance, tighten mounting, consult service for bearings |
| Overheating | Overload, blocked ventilation, worn motor | Reduce load, clear vents, consult service |

8. SPECIFICATIONS

| Feature | Detail |
|--------------|------------|
| Brand | PROXXON |
| Model Number | NO.20160 |
| Units | 1.0 piece |
| ASIN | B001LF3PBY |

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official PROXXON website or contact your local authorized dealer. Keep your purchase receipt as proof of purchase.