

WEINIG RONDAMAT 936 Academic PDF

Weinig Rondamat 936: The Ultimate Guide to Precision and Efficiency in Tool Grinding

Introduction to the Weinig Rondamat 936

The **Weinig Rondamat 936** is a renowned tool grinding machine, designed specifically for sharpening and reconditioning a wide variety of cutting tools with high precision. As part of Weinig's esteemed lineup of woodworking machinery, the Rondamat 936 has gained popularity among professional woodworkers, tool manufacturers, and hobbyists alike for its reliability, versatility, and exceptional performance. Whether you are looking to restore your tools to their original sharpness or customize cutting edges for specific applications, the Rondamat 936 offers a comprehensive solution tailored to meet demanding standards.

Key Features of the Weinig Rondamat 936

1. Robust Construction and Durable Design

The Rondamat 936 is built with high-quality materials, ensuring longevity and stable operation even under intensive use. Its solid cast iron base minimizes vibrations, enhancing the accuracy of grinding operations and ensuring consistent results.

2. Precise and Adjustable Grinding Angles

One of the standout features of the Rondamat 936 is its ability to accurately set and adjust grinding angles. This feature allows users to replicate precise bevels and edge geometries, which is essential for producing high-quality cutting tools.

3. Versatility in Tool Types

The machine is capable of sharpening a wide variety of tools, including:

- HSS and carbide saw blades
- Chisels and gouges
- Router bits
- Knives and planer blades

This versatility makes the Rondamat 936 an indispensable tool for workshops handling different tool

types.

4. Easy Handling and User-Friendly Interface

Despite its professional-grade capabilities, the machine is designed with user convenience in mind. It features intuitive controls, clear markings, and adjustable guides, allowing both beginners and experienced users to operate it efficiently.

5. Safety Considerations

Safety is paramount in any grinding operation. The Rondamat 936 includes protective covers, emergency stop buttons, and ergonomic design elements to ensure safe handling during use.

Technical Specifications of the Weinig Rondamat 936

| Specification | Details |

|-----|-----|

| Power Supply | 230 V / 50 Hz (single-phase) |

| Motor Power | Approximately 0.75 kW |

| Grinding Wheel Diameter | 150 mm |

| Max. Grinding Wheel Width | 20 mm |

| Adjustable Grinding Angles | 15° to 45° |

| Weight | Around 50 kg |

| Dimensions | 600 mm x 300 mm x 400 mm |

Please note that specifications may vary slightly depending on the model version or regional configurations.

Applications and Benefits of the Weinig Rondamat 936

1. Sharpening and Reconditioning Tools

The primary application of the Rondamat 936 is to restore cutting tools to their optimal sharpness.

This extends the lifespan of tools, reduces waste, and improves cutting performance.

2. Custom Tool Production

For workshops producing custom tools or modifying existing ones, the Rondamat 936 provides the flexibility needed to create specific bevel angles and edge geometries, enhancing the quality and functionality of tools.

3. Cost Efficiency

Maintaining and sharpening tools in-house reduces the need for external service providers, saving significant costs over time. The durability and precision of the Rondamat 936 ensure that each sharpening session delivers professional results.

4. Increased Productivity

With quick setup times and straightforward operation, users can rapidly re-sharpen multiple tools, minimizing downtime and boosting overall workshop productivity.

How to Use the Weinig Rondamat 936 Effectively

Step 1: Setup and Safety Checks

Before starting, ensure the machine is properly assembled and powered. Check safety features such as protective covers and emergency stop functions. Wear appropriate personal protective equipment (PPE), including safety goggles and gloves.

Step 2: Selecting the Correct Grinding Wheel

Choose a grinding wheel suitable for the type of tool you intend to sharpen. For example, use finer-grit wheels for finishing and coarser wheels for initial material removal.

Step 3: Adjusting the Grind Angle

Using the adjustable angle settings, set the desired bevel or cutting edge angle. The Rondamat 936 provides precise angle marking, facilitating accurate adjustments.

Step 4: Positioning the Tool

Secure the tool firmly in the guide or fixture. Ensure the cutting edge is aligned correctly with the grinding wheel, and use the machine's guides to maintain consistency.

Step 5: Grinding Process

Switch on the machine and gently bring the tool into contact with the grinding wheel. Use smooth, controlled movements to achieve the desired edge. Avoid applying excessive pressure to prevent overheating or damaging the tool.

Step 6: Inspection and Finishing

After grinding, inspect the edge for uniformity and sharpness. Make any necessary adjustments and perform additional passes if required. Finish with a honing or polishing step if needed for a smoother cut.

Maintenance and Care for the Weinig Rondamat 936

Proper maintenance ensures the longevity and optimal performance of the Rondamat 936. Regularly check the following:

- Grinding wheel condition and replace when worn or damaged
- Lubricate moving parts according to the manufacturer's instructions
- Clean dust and debris from the machine surface and vents
- Ensure safety features are functioning correctly

Follow the manufacturer's maintenance schedule and consult the user manual for specific guidelines.

Advantages of Choosing the Weinig Rondamat 936

- High precision and repeatability in sharpening
- Robust and durable construction for long-term use
- Versatility in sharpening different tool types
- User-friendly operation suitable for various skill levels
- Cost-effective solution for professional workshops and hobbyists

These benefits make the Rondamat 936 a preferred choice for those seeking quality and efficiency in tool grinding.

Where to Buy the Weinig Rondamat 936

The Weinig Rondamat 936 is available through authorized distributors, woodworking machinery

dealers, and directly from Weinig's official channels. When purchasing, consider:

- Warranty and after-sales support
- Availability of replacement parts
- Technical assistance and training

It is advisable to buy from reputable sources to ensure genuine products and reliable service.

Conclusion

The **Weinig Rondamat 936** stands out as a top-tier tool grinding machine, combining precision, durability, and ease of use. It is an essential asset for professionals and serious hobbyists who demand high-quality sharpening and tool maintenance. With proper operation and maintenance, the Rondamat 936 can significantly enhance tool performance, prolong tool lifespan, and improve overall workshop productivity. Investing in this versatile machine is a step toward achieving superior craftsmanship and efficient workflow in woodworking and tool manufacturing environments.

Weinig Rondamat 936: The Pinnacle of Precision in Round Knife Sharpening

When it comes to achieving impeccable, razor-sharp edges on round knives and gouges, the Weinig Rondamat 936 stands out as a benchmark in professional sharpening equipment. Designed with precision, durability, and user-friendliness in mind, this sharpening machine has earned its reputation among woodworkers, furniture makers, and artisans who demand nothing but the best. In this comprehensive review, we will explore every critical aspect of the Weinig Rondamat 936—from its technical specifications and features to its operational advantages, maintenance considerations, and overall performance.

Introduction to Weinig Rondamat 936

The Weinig Rondamat 936 is a high-quality, industrial-grade sharpening machine specifically engineered for the precise reshaping and sharpening of round knives, gouges, and other curved cutting tools. Originating from Weinig, a renowned manufacturer known for producing durable and innovative woodworking machinery, the Rondamat 936 embodies the company's commitment to excellence.

This machine addresses the needs of professionals who require consistent, high-quality sharpening results, whether in small workshops or large manufacturing facilities. Its robust construction, advanced features, and ergonomic design make it a versatile tool that enhances productivity and cutting accuracy.

Design and Build Quality

Robust Construction

The Weinig Rondamat 936 features a heavy-duty cast iron base that ensures stability during operation. The solid construction minimizes vibrations and enhances the precision of sharpening tasks.

Ergonomic Design

- The machine incorporates an adjustable work table that allows for precise positioning of the tool.
- Its compact footprint makes it suitable for workshops with limited space.
- Intuitive controls are positioned within easy reach, fostering a user-friendly experience.

Durability

Constructed with high-quality materials, the Rondamat 936 is built to withstand frequent use in demanding environments. Its components are designed for longevity, reducing maintenance and replacement costs over time.

Technical Specifications

- Power Supply: Typically operates on standard 230V or 400V power, depending on regional standards.
- Motor Power: Approximately 0.75 to 1.1 kW, providing ample torque for various sharpening tasks.
- Grinding Wheel Diameter: Usually around 150mm, suitable for precise grinding.
- Adjustable Angles: From 0° to 30°, allowing for versatile sharpening profiles.
- Workpiece Capacity: Can handle tools with diameters up to a specified maximum, often around 150mm.
- Speed: Variable speed options for different grinding requirements.
- Weight: Approximately 100-120 kg, emphasizing its sturdy build.

Key Features and Functionalities

Precision Angle Adjustment

A standout feature of the Rondamat 936 is its highly accurate angle adjustment system. Users can set sharpening angles with an accuracy of $\pm 1^\circ$, ensuring consistency across multiple tools.

Automatic Clamping System

The machine incorporates an adjustable clamp that securely holds the tool in place, reducing the risk of slippage and ensuring safety during operation.

Variable Speed Control

- Allows users to select the optimal grinding speed for different materials and tool types.
- Enhances the quality of sharpening by minimizing heat buildup and preventing tool damage.

Adjustable Work Table

- Facilitates precise positioning of the tool relative to the grinding wheel.
- Features graduated scales for repeatability.

Cooling System

- Integrated water cooling system prevents overheating of tools and grinding wheels.
- Extends the lifespan of both the tool and the machine components.

Ease of Maintenance

- Access panels and straightforward drive belt replacements make routine maintenance hassle-free.
- The machine's design minimizes dust accumulation and simplifies cleaning.

Operational Performance

Sharpening Accuracy

The Rondamat 936 excels in delivering consistent, high-precision sharpening results. Whether restoring dull tools or creating new profiles, users benefit from minimal setup adjustments and reliable outcomes.

Versatility

- Suitable for sharpening various types of round knives, gouges, and curved blades.
- Capable of handling different sizes and shapes with minimal reconfiguration.
- The adjustable angle settings and work table allow for customized sharpening profiles.

Ease of Use

- The machine's intuitive controls and clear indicators reduce the learning curve.
- Even less experienced operators can achieve professional results with proper training.
- The built-in safety features, such as emergency stops and guards, promote safe operation.

Speed and Efficiency

- Significantly reduces the time required for sharpening compared to manual methods.
- Automated features and precise adjustments allow for quick setup and turnaround.

Advantages of the Weinig Rondamat 936

- High Precision: Ensures accurate sharpening angles and profiles, improving cutting performance.
- Durability: Built with high-quality materials for long-lasting performance.
- Safety Features: Incorporates protective guards, emergency stops, and water cooling to protect operators.
- Versatility: Capable of sharpening a wide range of tools and sizes.
- Ease of Maintenance: Designed for straightforward servicing, reducing downtime and costs.
- Consistent Results: Reduces operator dependency, delivering uniform edges every time.
- Space-Saving Design: Compact footprint suitable for various workshop sizes.

Limitations and Considerations

While the Weinig Rondamat 936 offers numerous advantages, potential users should be aware of certain limitations:

- Initial Investment: As a high-end industrial machine, it comes with a significant purchase price, which might be a barrier for hobbyists or small workshops.
- Training Requirement: Operators need proper training to utilize all features effectively and safely.
- Power Consumption: The machine's robust motor and cooling systems consume considerable

power, which should be considered in workshop planning.

- Maintenance Knowledge: While designed for easy maintenance, routine servicing requires understanding of mechanical and electrical components.
- Size and Weight: Its substantial weight necessitates a sturdy installation surface and may complicate relocation.

Installation and Setup

- Site Preparation: Ensure a stable, level surface with adequate electrical connections.
- Assembly: Usually involves attaching the work table, adjusting the angle mechanisms, and installing grinding wheels.
- Calibration: Precise calibration of angles and clamping systems is critical for optimal performance.
- Training: Operators should familiarize themselves with safety protocols and operational procedures.

Maintenance and Longevity

Proper maintenance prolongs the lifespan of the Rondamat 936 and maintains its precision:

- Regular Cleaning: Remove dust and debris after each use.
- Cooling System Checks: Ensure water supply lines are clear and functioning.
- Wheel Inspection: Regularly inspect grinding wheels for wear and replace when necessary.
- Lubrication: Keep moving parts adequately lubricated as per manufacturer instructions.
- Electrical Checks: Periodic inspection of wiring and switches to prevent failures.

Comparisons with Similar Machines

In the professional sharpening landscape, the Weinig Rondamat 936 holds its own against competitors like Tormek, Baldor, and other specialized sharpening machines. Compared to manual sharpening methods, it offers unmatched consistency and efficiency. Against similar automatic or semi-automatic grinders, its precise angle adjustment and robust build give it an edge in demanding production environments.

Customer Feedback and Testimonials

Many users praise the Rondamat 936 for its:

- Reliability: Consistently delivering high-quality edges over years of use.
- Ease of Use: Simplifies complex sharpening tasks.
- Customer Support: Weinig's after-sales service and technical support are often highlighted as exemplary.
- Value for Money: Despite the high initial cost, users find the durability and efficiency justify the investment.

Conclusion: Is the Weinig Rondamat 936 Right for You?

The Weinig Rondamat 936 is undoubtedly a premium sharpening solution tailored for professionals demanding precision, efficiency, and durability. If your workshop requires frequent sharpening of round knives, gouges, or curved tools, and you value consistent, high-quality results, this machine is an excellent investment. Its advanced features, sturdy construction, and user-centric design make it a reliable workhorse that can elevate your craftsmanship.

However, for hobbyists or small-scale operators, the cost and complexity might be prohibitive. In such cases, more affordable or manual alternatives could suffice.

In summary, the Weinig Rondamat 936 epitomizes excellence in tool sharpening technology, combining precision engineering with practical features to meet the rigorous demands of modern woodworking and manufacturing environments. Investing in this machine means investing in high-quality craftsmanship and operational efficiency that can benefit your workshop for years to come.

Question What are the key features of the Weinig Rondamat 936 sharpening machine? The Weinig Rondamat 936 is known for its precise tool sharpening capabilities, adjustable grinding angles, and user-friendly interface, making it ideal for sharpening and reconditioning circular saw blades and other cutting tools. **How does the Weinig Rondamat 936 improve woodworking efficiency?** By providing accurate and quick sharpening of saw blades, the Rondamat 936 reduces downtime and ensures optimal cutting performance, ultimately increasing productivity in woodworking shops. **Is the Weinig Rondamat 936 suitable for small workshop use?** Yes, the Rondamat 936 is designed to be versatile and easy to operate, making it suitable for both small workshops and professional manufacturing environments. **What types of tools can be sharpened with the Weinig Rondamat 936?** The machine is primarily used for sharpening circular saw blades, but it can also be used for other cutting tools requiring precise grinding and reconditioning. **Does the Weinig Rondamat 936 come with safety features?** Yes, the machine includes safety features such as protective covers and emergency stop buttons to ensure operator safety during operation. **What maintenance is required for the Weinig Rondamat 936?** Regular cleaning, checking grinding wheel wear, and calibration are essential to maintain optimal performance. Periodic lubrication of moving parts is also recommended. **How does the price of the Weinig Rondamat 936 compare to similar sharpening machines?** While pricing varies depending on the seller and optional features, the

Rondamat 936 is considered a premium machine offering high precision, which justifies its investment for professional use. Can the Weinig Rondamat 936 be customized for specific sharpening needs? Yes, it offers adjustable grinding angles and customizable setups to accommodate different blade sizes and sharpening requirements. What training is needed to operate the Weinig Rondamat 936 effectively? Operators should receive training on machine setup, safety procedures, and sharpening techniques, which can be provided by the manufacturer or authorized dealers. Where can I purchase the Weinig Rondamat 936 and get service support? The machine can be purchased through authorized Weinig distributors or dealers, who also provide after-sales service, maintenance, and technical support.

Related keywords: Weinig Rondamat 936, woodworking tool, sharpening machine, tool grinder, woodworking equipment, tool sharpening, woodworking machinery, precision grinding, tool maintenance, woodworking accessories, Weinig machinery