

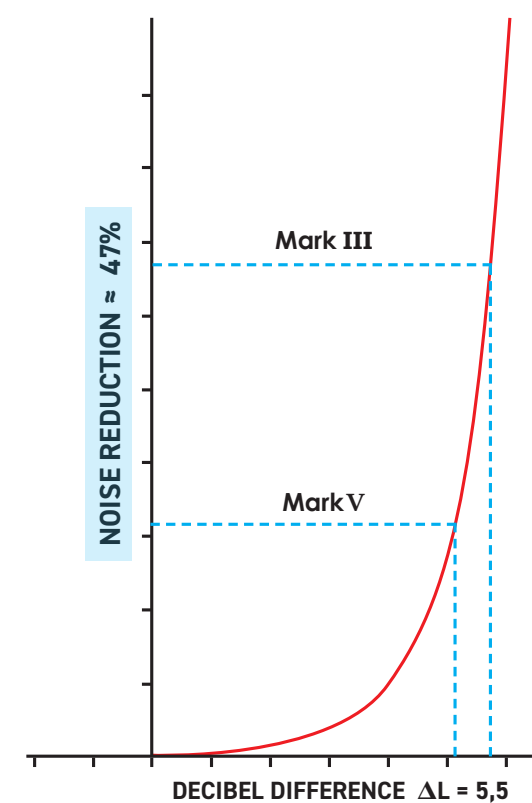
## NOISE REDUCTION BY 47%

Noise reduction brings significant advantages that enhance the user experience and improve tool performance. By minimizing operational noise, these advanced polishers protect hearing and create a more comfortable working environment.

- **Improved Comfort:** Quieter operation reduces auditory strain, enhancing user comfort. This makes the polishing process more pleasant and sustainable, especially for extended sessions. Users can work longer without noise-induced fatigue.
- **Improved Tool Handling:** Noise reduction makes the polisher feel smoother and less aggressive, enhancing handling and control. This is beneficial not only for professionals but also for beginners or those less experienced with polishing, as it provides a more user-friendly experience and reduces the intimidation factor of the tool.
- **Reduced Disturbance:** With quieter operation, polishers are less likely to disturb others, making them ideal for use in noise-sensitive environments such as residential areas, shared workspaces, or indoors.
- **Lower Vibration:** Noise reduction often correlates with reduced vibrations, which further enhances user comfort and extends the life of the tool. Less vibration means lower wear and tear on the polisher, contributing to longer service intervals and reduced maintenance costs.
- **Higher efficiency:** a lower level of noise and vibrations means that all the energy we take from the plug and that we pay at the end of the month in the energy bills, is used for actually polishing and not dispersed in counterproductive disturbing side effects.

NOISE EMISSION VALUES LHR15 Values determined according to EN 62841-2-4						
POLISHERS	LHR15 MarkIII			LHR15 MarkV		
PADS	Foam	Wool	Microfiber	Foam	Wool	Microfiber
NOISE (dB)	78,5	78,5	78,5	73	73	73

NOISE EMISSION VALUES LHR21 Values determined according to EN 62841-2-4						
POLISHERS	LHR21 MarkIII			LHR21 MarkV		
PADS	Foam	Wool	Microfiber	Foam	Wool	Microfiber
NOISE (dB)	78,5	78,5	78,5	73	73	73



### TECHNICAL DETAILS ON NOISE REDUCTION

Reducing noise levels from 78,5 decibels (dB) to 73 dB is a significant improvement in the acoustic performance of a device, such as a dual action polisher where noise levels are a concern for user comfort and safety. This reduction, although it may seem small numerically, represents a substantial decrease in perceived noise. **The decibel scale is logarithmic, not linear, therefore, a 5,5 dB reduction means in about a 47% reduction in perceived loudness**, so the noise is significantly less noticeable and less intrusive to users.

### NOISE REDUCTION CALCULATION FROM MarkIII TO MarkV

The sound pressure level (SPL) can be calculated and interpreted to understand the effectiveness of noise reduction. The decibel (dB) scale is logarithmic, so a reduction in dB corresponds to a significant decrease in sound intensity and the formula to calculate sound pressure level (SPL) in decibels is:

### CONCLUSION

The reduction of noise from 78,5 dB to 73 dB in a dual action polisher, achieved through advanced engineering and design, results in a sound pressure decrease of approximately 47%. This significant reduction enhances user comfort, safety, and overall tool performance, providing a much quieter and more efficient polishing experience.

# Mark V

## EXCLUSIVE 5-YEAR EXTENDED WARRANTY

Rupes' professional tools are renowned for their durability and performance, and now, with the Rupes MarkV Polishers, you can enjoy even greater peace of mind. While our standard one-year warranty covers professional users, we're excited to offer an exclusive opportunity to extend your warranty to a total of 5 years!

**HOW TO GET YOUR 5-YEAR WARRANTY:** Simply register your Rupes Mark V Polisher upon purchase, and you'll receive an extended warranty that ensures your investment is protected for 5 full years.

**WHAT'S COVERED:** Rupes will provide comprehensive warranty service at no charge to you, covering defects in materials and workmanship during production. This warranty is exclusively available to the original end-user purchaser, ensuring you receive the quality and service you deserve.



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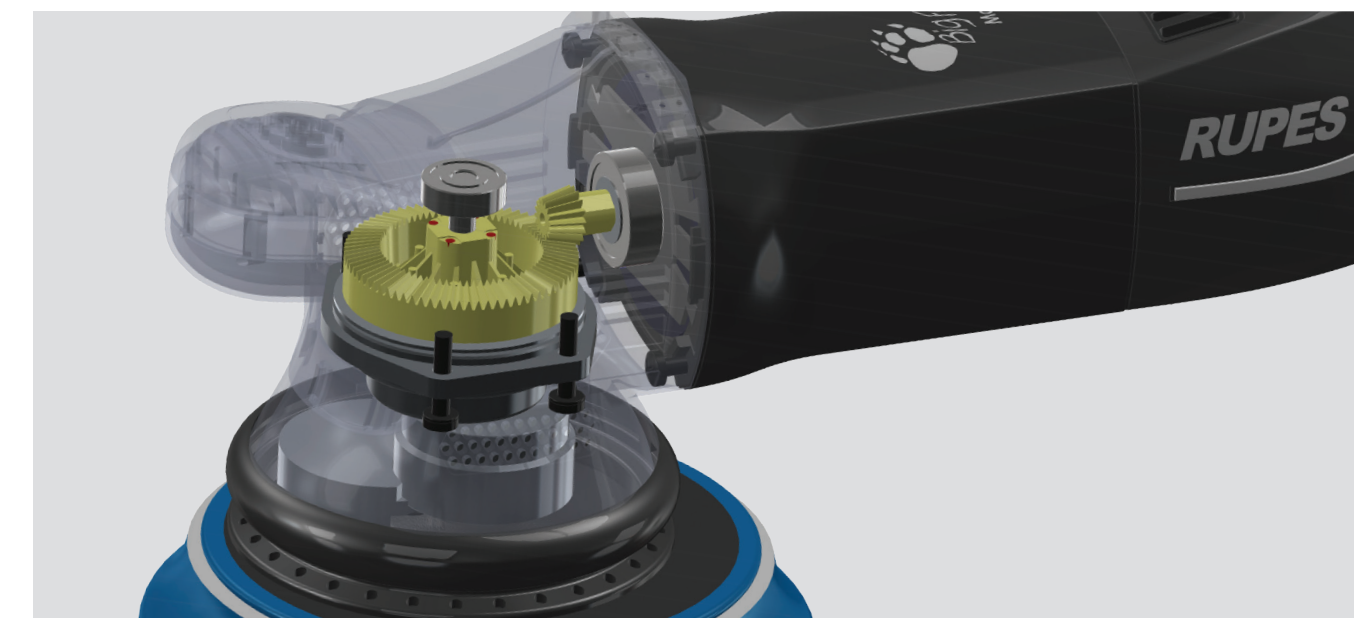
# Mark V

## THE ULTIMATE BIGFOOT POLISHER



Big Foot  
Mark V

## NEW COMPOSITE GEARS IN POLYSYNTHETEC™



Composite gears in **POLYSYNTHETEC™** are a critical innovation in the design of the new polishers, offering a range of benefits that enhance the tool's performance and user experience. These advanced gears are engineered from high-quality composite materials, providing exceptional durability and efficiency.

- **DURABILITY AND WEAR RESISTANCE:** Composite gears in POLYSYNTHETEC™ are engineered to resist wear and impact, offering a long-lasting and reliable performance even under demanding conditions.
- **NOISE REDUCTION:** The materials used in composite gears naturally dampen vibrations, leading to quieter operation by reducing gear noise and minimizing the sound of meshing gears.
- **REDUCED WEIGHT:** These gears are much lighter than metal alternatives, which reduces the overall weight of the polisher, making it easier to handle and maneuver, especially during prolonged use.
- **ENHANCED EFFICIENCY:** Composite gears operate with lower friction, leading to smoother performance, reduced energy loss, and consistent speed and torque delivery.
- **SMOOTH OPERATION:** Composite gears require less lubrication due to their low friction properties and precise molding, which results in smooth gear engagement and minimal maintenance.
- **THERMAL STABILITY:** These gears maintain their performance across a range of temperatures, preventing overheating and ensuring reliable operation.

## REDUCED VIBRATIONS

Reducing vibrations significantly elevates the tool's performance and usability. Lower vibrations lead to enhanced user comfort, improved control, and more consistent polishing results. This refinement minimizes arm fatigue, extends the life of the polisher, and ensures a quieter, safer operation. By addressing the vibration issue, modern polishers deliver a smoother, more effective polishing experience.

- **ENHANCED COMFORT:** Lower vibration significantly reduces hand and arm fatigue, allowing users to operate the polisher comfortably for extended periods without experiencing the strain or discomfort associated with prolonged tool use.
- **INCREASED SAFETY:** Less vibration reduces the chance of the polisher slipping or moving unexpectedly, enhancing safety by ensuring the tool remains stable in the operator's hands, especially when working on vertical or angled surfaces.
- **HEALTH BENEFITS:** By significantly reducing tool vibrations, the polisher minimizes the potential for long-term health issues related to extended use. This enhancement promotes better overall well-being and ensures a safer, more comfortable user experience over prolonged periods.
- **BETTER POLISHING RESULTS:** Minimizing vibration reduces the likelihood of pad skipping and bouncing on the surface, which leads to a smoother, more uniform finish. This results in a professional-grade polish with fewer imperfections.
- **EXTENDED TOOL LIFE:** By decreasing the mechanical stress and wear on the internal components, reduced vibration contributes to the longevity of the polisher. Components experience less friction and impact, which reduces maintenance needs and extends the tool's lifespan.

## NEW PRECISIONPRO BACKING PADS

These revolutionary backing pads have been meticulously designed to take your polishing experience to the next level. Without polyurethane, they not only bring durability to the forefront but also provide a lower center of gravity. This means enhanced stability during operation, allowing for greater control and precision in your work. The rubber edge adds an extra layer of finesse to your polishing tasks, ensuring that even the most delicate surfaces are treated with care. What truly sets our backing pads apart is their ability to guarantee better balancing, even with different polishing pads. This means you can effortlessly switch between various pads without compromising on performance or quality.



### RUBBER BORDER PROTECTION

For added surface protection and a smoother glide

### BALANCING VERSATILITY

Perfect balance with various polishing pads

### LOWER CENTER OF GRAVITY

Reduced height and lower center of gravity by ~10% for superior stability and control



### TECHNICAL DATA

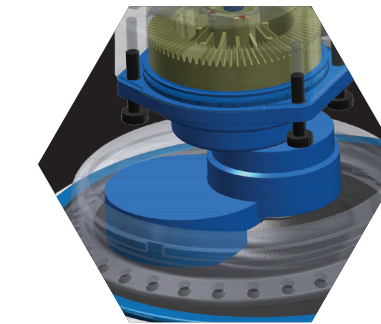
		LHR15 MarkV	LHR21 MarkV
Ø backing pad	mm-in	125 - 5"	150 - 6"
Ø orbit	mm-in	15 - 19/32"	21-13/16"
Power	Watt	500	500
R.P.M.		3000 - 5200	3000 - 4500
Weight	kg-lbs	2,35 - 5,18	2,44 - 5,38
Electronic Speed control		•	•
Spindle pad thread		M8-F	M8-F
Backing pad supplied	Code	980.710	981.710
Electrical Cord	m-ft	9 - 30'	9 - 30'

# NEW LHR15 AND LHR21 MarkV POLISHERS

ENGINEERED FOR NOISE REDUCTION AND MINIMAL VIBRATION



## NEW INNOVATIVE FEATURES



### NEW ECCENTRIC SET

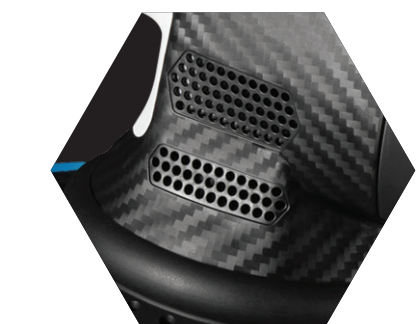
The new lighter eccentric set improves efficiency and comfort by being compact and reducing vibration, enhancing maneuverability and control for precise polishing results.

- **VIBRATION REDUCTION:** The new eccentric set reduces vibrations, providing a smoother polishing experience and improving finish quality.
- **OPTIMIZED PERFORMANCE:** The redesigned eccentric set improves the polisher's efficiency by reducing load and energy loss with its optimized design.
- **INCREASED USER COMFORT:** The lighter eccentric set reduces wrist and arm strain, making the polisher easier to handle and ideal for extended use.

### NEW ANTISPINNING RING

The antispinning ring on dual action polishers prevents uncontrolled pad spinning, enhancing safety and control, and ensuring smoother, quieter, and more consistent polishing results.

- **ENHANCED SAFETY:** The antispinning ring prevents uncontrolled pad rotation when the polisher is lifted from the surface.
- **PROTECTS EQUIPMENT:** By limiting free spinning, it prevents undue stress on the polisher's bearings and drive mechanisms.
- **PREVENTS UNCONTROLLED SPIN:** It prevents the pad from spinning too quickly and coming loose from the machine.



### NEW VENTILATION SYSTEM

The new ventilation system enhances tool design by improving heat management and performance. It provides better cooling, user comfort and protects internal components.

- **IMPROVED HEAT DISSIPATION:** Newly designed vents enhance airflow, effectively cooling the motor and electronics.
- **EXTENDED TOOL LIFE:** Reduced thermal stress on components and increases the polisher's durability.
- **BETTER USER COMFORT:** Improved airflow contributes to quieter operation by reducing heat-related noise and vibrations.

### NEW ONE-BLOCK PLASTIC HEAD COVER

The one-block plastic head cover reduces vibration and noise, ensuring quieter, smoother operation and improved protection for internal components, enhancing comfort and reliability.

- **REDUCED VIBRATIONS:** The solid, seamless design reduces vibrations, offering smoother operation and improves comfort.
- **LOWER NOISE LEVEL:** The one-block cover significantly decreases operational noise, leading to a quieter polishing experience.
- **ENHANCED DURABILITY:** The new cover offers superior protection against drops and wear, extending the polisher's lifespan.

