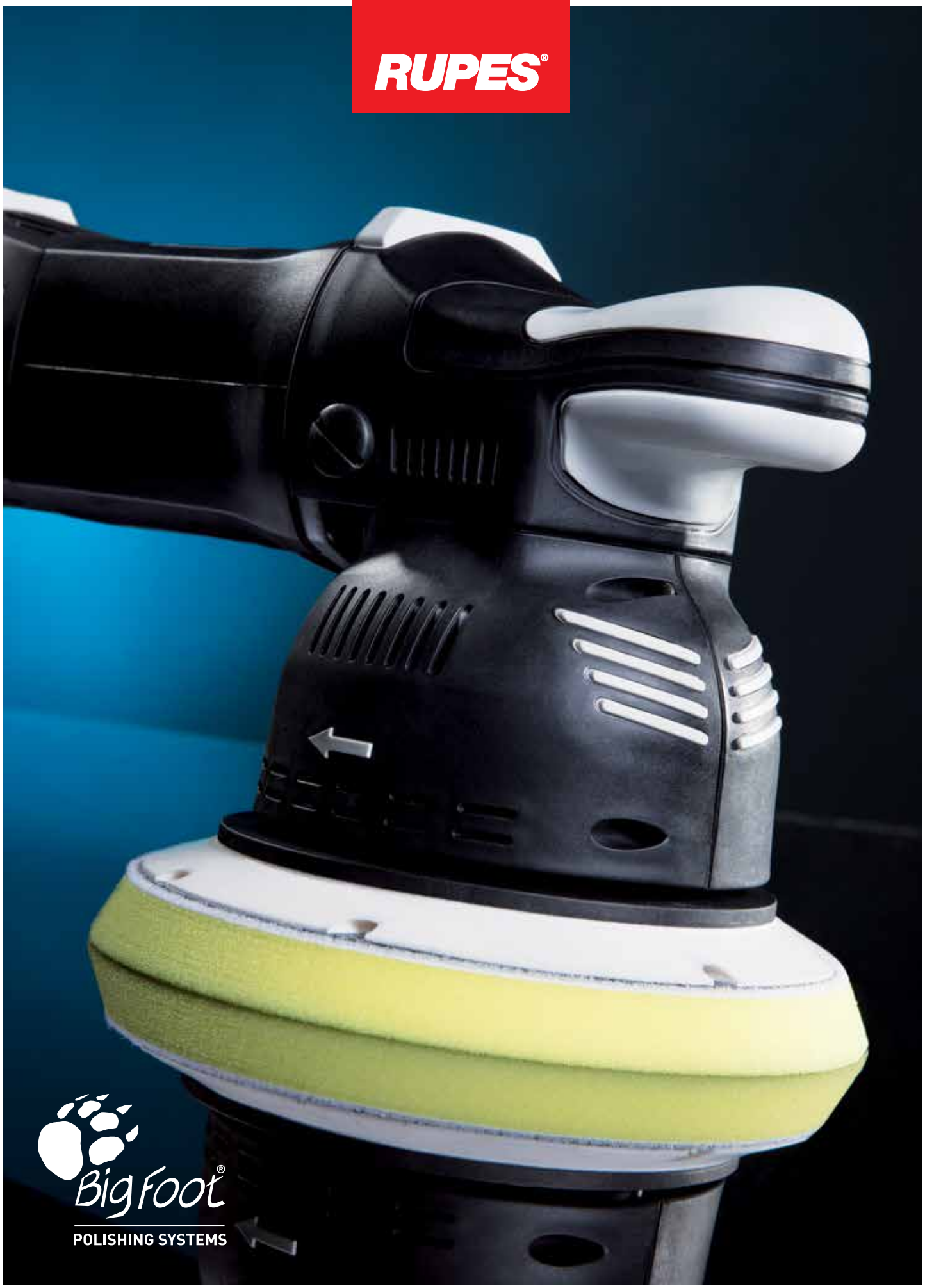
RUPES®



RUPES BIGFOOT
POLISHING SYSTEMS

INNOVATIVE
EFFICIENT
EASY TO USE
PERFECT RESULTS

ROTARY

GEAR DRIVEN

RANDOM ORBITAL

TRIPLE ACTION

BIGFOOT POLISHING SYSTEMS

ROTARY: a rotating disc, rotates on a central axis with the highest velocity being at the pads edge. Rotary tends to be the most invasive movement on the surface, generating substantial friction and heat which can lead to burns, strike throughs, and rotary induced swirl marks if used improperly. In the hands of a skilled technician a rotary tool features the lowest vibration levels of any tool movement, but can take a great deal of time to learn to use the tool properly. Rotary movement is most commonly used for polishing operations.

GEAR DRIVEN: the backing plate follows an orbit (the scope of which depends on the distance between the rotation axis of the drive shaft and the central axis of the rotor disc) and is at the same time constrained to rotate about its own central axis (typically due to the inclusion of a gearing). The number of orbits at each revolution of the disc is always constant and depends on the parameters of the gearing used. The gear movement is more aggressive on surfaces with respect to the random orbital movement and generates a generally higher vibration level.

RANDOM ORBITAL: the backing plate follows an orbit (the amplitude of which depends on the distance between the rotation axis of the drive shaft and the central axis of the backing plate) and is free to rotate about its own central axis. The backing plate is free to rotate at varying velocities and directions by effect of the centrifugal force of the offset movement and by effect of friction. Should the friction forces be such as to prevent rotation of the disc while the tool is still operating, the random orbital movement would simply become an orbital movement. The number of disc rotations is variable and independent of the number of orbits performed. The random orbital movement is at present the best compromise in terms of effectiveness and surface treatment quality.

TRIPLE ACTION: Rupes is offering a new type of movement known as Triple Action. The power of a motor can be expressed as the product of the torque multiplied by the velocity. During normal use of a tool, the operator applies a variable load, which by effect of the friction forces and the work carried out by the motor might be such as to reduce the number of revolutions of the motor. The load applied by the operator during normal use of a tool varies significantly over a measure of time, causing large variations in velocity of the number of orbits and the rotation of the rotor disc and consequently reducing the uniformity and effectiveness of the work operation.
A more homogeneous process leads to a significant reduction in working times. In the case of triple action tools, and similar to the movement of random orbital tools, the disc follows an orbit and is free to rotate about its own central axis but, thanks to a special epicyclic gear reducer located in front of the cam group, the torque value is significantly increased while at the same time the velocity is reduced. With the use of this solution the impact of a variable in performance (the load applied by the user) is substantially minimized and, consequently, a greater uniformity of performance of the tool.
This provides a considerable improvement in the surface finish as well as a drastic reduction in the vibration levels. From the very first use it is clear how advantageous this configuration is in terms of effectiveness and vibration reduction all thanks to the introduction of the epicyclic gear reducer; this is a technical improvement that so profoundly improves and changes the functionality of the tool that it merits a new movement category, the TRIPLE ACTION.

PERFECT RESULTS

Achieving polished perfection on a surface as efficiently as possible is the primary goal of the BigFoot project. BigFoot simplifies the polishing process, substantially reducing time and producing the optimum result. Thanks to the complete range of polishers, pads and compounds, all designed to work in synergy, BigFoot's innovative system based approach guarantees exceptional results in less time for virtually any polishing application.

BIGFOOT LH 19E

Rotary Polisher

Featuring a high torque motor, compact design, premium ergonomics and a lightweight housing, the LH 19E is one of the most capable and maneuverable rotary polishers on the market. Its lightweight and powerful design makes it the ultimate rotary polishing solution for a variety of industries including automotive detailing, collision repair and refinishing, marine, and more.

ROTARY

TECHNICAL DATA		
Ø backing pad	mm-in	**125 - 5” / 150 - 6” / 165 - 6,5”**
Power	Watt	**1200**
R.P.M.		**450 - 1700**
Weight	kg-lbs	**2,2 - 4,85**
Speed regulation		**•**
Backing pad thread		**M14**
Electrical Cord	m-ft	**9**

ANTI-VIBRATION LOOP HANDLE

An innovative loop handle allows users to hold the polisher securely at different angles for precision and stability during the polishing process. The soft grip material and the special design absorb and dissipate vibration to improve operator comfort as well as protect delicate surfaces from damage. The new loop handle is included standard with each tool.

ANTI-VIBRATION SIDE HANDLE

A soft grip side handle reduces the vibration during the polishing operation and provides comfortable control of the polisher. Featuring a new design and the specialized materials to absorb and dissipate the vibration from the machine the handle can be added to either side, depending on operator preference, and is included with the polisher DLX Kits.

9 METERS ELECTRICAL CORD

The new Heavy Duty extra long 9mt cord is gauged to deliver maximum power to the polisher for safe, efficient operation. The longer cord save you time, steps and hassles since the user doesn’t have to use additional extension cords when polishing around a car.

ELECTRONIC SPEED CONTROL DIAL

An all new variable speed dial provides the ability to adjust speeds for specific applications. The dial features larger numbers, a click sensation to indicate speed changes, and is positioned for effortless adjustment during the polishing process.

PROGRESSIVE TRIGGER

Adding an additional level of control, the LH19E includes a progressive trigger. This trigger acts as a throttle allowing the operator to control speeds within the dial range to deliver the exact desired speed and to adjust quickly as needed without interruption to the work process.

BIGFOOT MILLE LK 900E

Gear Driven Dual Action Polisher

Joining the BIGFOOT family of tools to bridge the gap between rotary and free spinning orbital polishers the Mille provides a balance of power, ergonomics, and capability for operators who crave a gear driven solution. Featuring a wide assortment of new, innovative features as well as a revolutionary clockwise rotational movement the BIGFOOT Mille delivers powerful defect removal, versatility, and consistent performance in an ergonomic package designed with operator comfort and efficiency of work in mind.

GEAR DRIVEN

TECHNICAL DATA		
Ø backing pad	mm-in	**125 - 5" / 150 - 6"**
Ø orbit	mm-in	**5 - 3/16"**
Power	Watt	**900**
R.P.M.		**265 - 535**
Weight	kg-lbs	**2,80 - 6,17**
Speed regulation		•
Backing pad thread		**6 x M4**
Electrical Cord	m-ft	**9**

CLOCKWISE ROTATION

The BIGFOOT Mille uses a specially designed electric motor, developed in-house by RUPES. This design allows for a clockwise rotational movement which translates to increased levels of control and comfort for the operator. Competitive tools feature a counter-clockwise movement which can increase unwanted lateral movement and create fatigue for the operator.

---

9 METERS ELECTRICAL CORD

The new Heavy Duty extra long 9mt cord is gauged to deliver maximum power to the polisher for safe, efficient operation. The longer cord save you time, steps and hassles since the user doesn't have to use additional extension cords when polishing around a car.

ELECTRONIC SPEED CONTROL DIAL

An all new variable speed dial provides the ability to adjust speeds for specific applications. The dial features larger numbers, a click sensation to indicate speed changes, and is positioned for effortless adjustment during the polishing process.

PROGRESSIVE TRIGGER

Adding an additional level of control, the Mille includes a progressive trigger. This new trigger design acts as a throttle allowing the operator to control speeds within the dial range to deliver the exact desired speed and to adjust quickly as needed.

DOUBLE RUBBER SUPPORT

Every aspect of the Mille has been considered in the design, even when the tool is not being used. Two rubber supports are positioned on the body of the machine to keep it stable when resting on a table or cart.

BIGFOOT Mark II

Enhancing working quality and simplifying jobs is our main skill. We produce tools that change the way people work, helping professionals to work better, faster, and more effectively. We know that the satisfaction of a good end result is something priceless, and work hard to let you work easily. The BigFoot random orbital polishing system is tailored specifically to the professionals who demand the best finish possible. Based on a larger diameter random orbital movement, it guarantees faster paint correction than any other system available, setting the stage for 21st century detailing. From the RUPES ongoing research two new machines are born: two high-tech orbital polishers for the smoothest polishing experience ever. Discover the new **LHR 21MarkII** & **LHR 15 MarkII**, discover the next level of perfection.

+30%

EFFICIENCY

A more powerful engine, with less energy consumption and a higher performance.

MORE SPEED AND TORQUE

Higher RPM, more torque that guarantees maximum performance on hard- to- reach areas and concave surfaces.

OPTIMUM BALANCE

Electric weight and mechanical parts have Perfectly balanced.

LOWER VIBRATION LEVEL

With Less stress on the user, longer use of the tool, with comfort and ease to guide into any position.

LHR 21 MarkII

With its 21mm orbit and its Ø150mm backing pad, the **LHR 21MarkII** random orbital polisher is the perfect polisher for working large surface areas. It gives a fast finish, without neglecting the RUPES branded quality. Improved efficiency guarantees more power and torque on every surface

RANDOM ORBITAL

TECHNICAL DATA

Ø backing pad	mm-in	**150 - 6”**
Ø orbit	mm-in	**21-13/16”**
Power	Watt	**500**
R.P.M.		**2500 - 4700**
Weight	kg-lbs	**2,7 - 59,5**
Speed regulation		**•**
Backing pad thread		**M8**
Electrical Cord	m-ft	**9**

IMPROVED ERGONOMICS

The rubber cup positioned on the body machine and grip refines the flawless BigFoot polishers design. The soft-grip material makes it pleasant and secure to hold. Practical handgrip, silent mechanics, minimum vibrations: these are just some features that makes BigFoot the market’s most versatile and sought- after system.

ELECTRONIC SPEED CONTROL MODULE

The variable speed dial provides the ability to adjust speed for specialty applications. The speed controller on the handle permits polishing at a speed precisely adjusted to suit the task in hand, and can also be regulated during the usage, thus avoiding any interruption. The pad rotates at the selected speed, maintaining specified speed under load, from 2500 to 4700 RPM, and employs exactly the right amount of power needed for the specific task. The speed control gives the user six settings for any polishing situation.

IMPROVED BALANCE

The perfect balance of the components makes polishing comfortable and vibrations free. This ensures an optimum transfer of power to the surface, and makes even hard-to reach spots accessible and guarantees top polishing results. That means that you can work for longer with greater comfort. The major balance of the tool body allows more sensitive control when polishing.

ON-OFF SWITCH LOCK

The on-off switch button located on the left side of the handgrip helps the operator to move his hands freely to different gripping positions while polishing, and prevent it to be pressed accidentally. Thanks to this device, the tool is safe also for extended use applications.

DESIGN

Attention to detail is something more than just attractive design. Every detail, such as the rubber support positioned on the body of the machine to keep it stable during the non working stages , is the result of meticulous research aimed at achieving maximum operator comfort.

LHR 15 MarkII

Built to handle any detailing situation, the new **LHR 15MarkII** is the new frontier of Detailing. The ergonomic design allows for precise paint correction with complete comfort, including curved surfaces and difficult to reach areas. More powerful with a higher rpm level, 30% more efficient, in spite of the smaller 15mm orbit the machine is equipped with.

RANDOM ORBITAL

TECHNICAL DATA

Ø backing pad	mm-in	**125 - 5”**
Ø orbit	mm-in	**15 - 19/32”**
Power	Watt	**500**
R.P.M.		**2500-5300**
Weight	kg-lbs	**2,6 - 57,3**
Speed regulation		•
Backing pad thread		**M8**
Electrical Cord	m-ft	**9**

IMPROVED ERGONOMICS

The rubber cup positioned on the machine body and grip refines the flawless BigFoot polishers design. The soft-grip material makes it pleasant and secure to hold. Practical handgrip, silent mechanics, minimum vibrations: these are just some features that makes BigFoot the market’s most versatile and sought- after system

ELECTRONIC SPEED CONTROL MODULE

The Variable speed dial provides the ability to adjust speeds for specialist applications. The speed controller on the handle permits polishing at a speed precisely adjusted to suit the task in hand, and can also be regulated during use, thus avoiding any interruption. The pad rotates at the selected speed, maintaining specified speed under load, from 2500 to 5300 RPM, and employs exactly the right amount of power needed for the specific task. The speed control gives the user six settings for any polishing situation.

IMPROVED BALANCE

The perfect balance of the components makes polishing comfortable and vibration free. This ensures an optimum transfer of power to the surface, and makes even hard-to reach areas accessible and guarantees top polishing results. That means that you can work for longer with greater comfort. The major balance of the tool body allows more sensitive control when polishing.

ON-OFF SWITCH LOCK

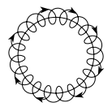
The on-off switch button located on the left side of the handgrip allows the operator to move his hands freely to different gripping positions while polishing, and prevents it being pressed accidentally. Thanks to this device, the tool is safe also for extended use Applications

DESIGN

Attention to detail is something more than just attractive design. Every detail, such as the rubber support positioned on the body of the machine to keep it stable during the non working stages, is the result of meticulous research aimed at achieving maximum operator comfort.

LHR 21ES

Characterised by its large Ø21mm orbit and Ø150 mm RUPES backing pad, the electric LHR 21ES random orbital polisher is perrfect for working large surface areas. The perfectly balanced polisher, combined with the Ø150/180 mm foam polishing pads of the RUPES BigFoot range, guarantees rapid cutting and an impeccable finish.



RANDOM ORBITAL

TECHNICAL DATA

Ø backing pad	mm-in	**150 - 6”**
Ø orbit	mm-in	**21 - 13/16”**
Power	Watt	**500**
R.P.M.		**2000-4200**
Weight	kg-lbs	**2,6 - 57,3**
Speed regulation		•
Backing pad thread		**M8**
Electrical Cord	m-ft	**9**

ELEGANTLY DESIGNED

The RUPES R&D and Design departments have paid particular attention to the design and ergonomics of the BigFoot polishers. The perfectly balanced machine body, the practical handgrip, the silent operation and minimum vibration are just some of the characteristics that help make BigFoot the market’s most versatile and sought-after system.

ANTISPINNING SHROUD

The dual function antispinning shroud is designed to **protect** the operator against the moving parts and act as a clutch for the backing pad, preventing further stress on the foam polishing pad when it is not in direct contact with the surface.

ELECTRONIC SPEED CONTROL MODULE

The speed controller on the handle is both practical and easy to use. The speed of the polisher can also be regulated during use, thus avoiding any interruption of the polishing operation.

ON-OFF SWITCH LOCK

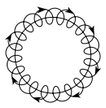
Pressing the button on the LEFT-hand side of the handgrip while polishing locks the on-off switch. This allows the operator to move his/her hands freely to different gripping positions while the tool is operating.

DESIGN

The attention to detail is not limited to just the innovative and attractive design. The modern lines and exceptional technical quality are combined with a number of details that are the result of meticulous research aimed at achieving maximum operator comfort.

LHR 15ES

The Ø15 mm orbit and the RUPES Ø125 mm backing pad make the random orbital polisher particularly suitable for curved surfaces. The 15mm orbit of the LHR 15ES, shorter than that of its big brother the LHR 21ES, is coupled with a higher rpm level than that of the LHR 21ES. This higher speed gives the LHR 15ES equivalent cutting power to the LHR 21ES, in spite of the smaller orbit. Its Ø130/150 mm BigFoot polishing foam pads, perfect balance and vibration-free operation make the LHR 15ES a real gem and a must for the tool kit of every detailer.



RANDOM ORBITAL

TECHNICAL DATA

Ø backing pad	mm-in	**125 - 5”**
Ø orbit	mm-in	**15 - 19/32”**
Power	Watt	**500**
R.P.M.		**2000 - 5000**
Weight	kg-lbs	**2,5 - 55,1**
Speed regulation		**•**
Backing pad thread		**M8**
Electrical Cord	m-ft	**9**

ELEGANTLY DESIGNED

The RUPES R&D and Design departments have paid particular attention to the design and ergonomics of the BigFoot polishers. The perfectly balanced machine body, the practical handgrip, the silent operation and minimum vibration are just some of the characteristics that help make BigFoot the market’s most versatile and sought-after system.

ANTISPINNING SHROUD

The dual function antispinning shroud is designed to protect the operator against the moving parts and act as a clutch for the backing pad, preventing further stress on the foam polishing pad when it is not in direct contact with the surface.

ELECTRONIC SPEED CONTROL MODULE

The speed controller on the handle is both practical and easy to use. **The speed of the polisher can also be regulated during use, thus avoiding any interruption of the polishing operation**.

ON-OFF SWITCH LOCK

Pressing the button on the LEFT-hand side of the handgrip while polishing **locks the on-off switch**. This allows the operator to move his/her hands freely to different gripping positions while the tool is operating.

DESIGN

The attention to detail is not limited to just the innovative and attractive design. The modern lines and exceptional technical quality are combined with a number of details that are the result of meticulous research aimed at achieving maximum operator comfort.

LHR 12E DUETTO

This simple, intuitive and exceptionally comfortable tool allows any operator to tackle even the most challenging polishing operation. The LHR 12E is perfect for deep correction operations and anti-hologram passes. The 12mm orbit allows the operator exceptional control in difficult applications such as edge and profile work, making "perfect detailing" an easy operation for novices and professionals alike.

RANDOM ORBITAL

TECHNICAL DATA

Ø backing pad	mm-in	**125 - 5"**
Ø orbit	mm-in	**12 - 1/2"**
Power	Watt	**400**
R.P.M.		**4000-5500**
Weight	kg-lbs	**2,6 - 5,73**
Speed regulation		**•**
Backing pad thread		**M8**
Electrical Cord	m-ft	**9**

ELEGANTLY DESIGNED

With its nonslip rubber inserts in the front cover, the LHR 12E is perfect for all polishing operations in difficult to reach zones. The operator can work in comfort to produce the best results possible.

DUAL FUNCTION: SANDING AND POLISHING

The LHR 12E and its 12mm orbit can be used with fine grit abrasives to speed up deep correction operations. The tool can then use foams and compounds to refine the abrasive scratches and restore a lustrous finish.

ANTISPINNING SHROUD

The dual function antispinning shroud is designed to protect the operator against the moving parts and act as a clutch for the backing pad, preventing further stress on the foam polishing pad when it is not in direct contact with the surface.

ELECTRONIC SPEED CONTROL MODULE

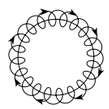
The speed controller is both practical and easy to use. The speed of the polisher can also be easily adjusted without interrupting the work.

DESIGN

The attention to detail is not limited to just the innovative and attractive design. The modern lines and exceptional technical quality are combined with a number of details that are the result of meticulous research aimed at achieving maximum operator comfort. The non-slip rubber inserts are numerous and have many functions. In particular, the insert on the machine body is used to support the polisher when placed on a surface.

LHR 75E MINI

Details: the LHR 75E is the polisher for difficult shapes and for spot repair operations. The LHR 75E is a must for any detailer wishing to obtain perfect results, even in the most difficult areas. The 12mm orbit, combined with RUPES accessories and consumables, achieves quick results on areas such as mudgards, front panels, etc.



RANDOM ORBITAL

TECHNICAL DATA

Ø backing pad	mm-in	**75 - 3”**
Ø orbit	mm-in	**12 - 1/2”**
Power	Watt	**400**
R.P.M.		**4000-5500**
Weight	kg-lbs	**2,3 - 5,07**
Speed regulation		**•**
Backing pad thread		**M6**
Electrical Cord	m-ft	**9**

ELEGANTLY DESIGNED

With its nonslip rubber inserts on the front cover, the LHR 75Et is perfect for all polishing operations in difficult to reach areas. The operator can work in perfect comfort to produce the best possible results.

ON-OFF SWITCH LOCK

Lined in non-slip rubber, the on/off lever of the BigFoot polisher ensures a controlled soft start, giving the operator full control over the tool.

MAXIMUM FLEXIBILITY

Thanks to the backing pad with small diameter, the LHR 75E is perfect in polishing applications on small and intricate areas. The small machine dimensions and the 12mm orbit allow a comfortable handling and accuracy in detail polishing.

ELECTRONIC SPEED CONTROL MODULE

The speed controller is both practical and easy to use. The speed of the polisher can also be easily adjusted without interrupting the work.

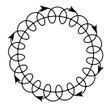
DESIGN

The attention to detail is not limited to just the innovative and attractive design. The modern lines and exceptional technical quality are combined with a number of details that are the result of meticulous research aimed at achieving maximum operator comfort. The non-slip rubber inserts are numerous and have many functions. In particular, the insert on the machine body is used to support the polisher when placed on a surface.

nano iBrid

Bigfoot nano machine is more than just technology, **it's a design philosophy** that will lead us into the future evolution of RUPES. iBrid ushers in an era of innovation, **flexibility, versatility, and sustainability**. The new iBrid manufacturing concept will increase process efficiency and optimize the user experience. The functionality of a battery and the option of corded electric supply, all without interruption of the task at hand. The dual power supply is joined by multi-action movements in the Nano that will revolutionize the approach to cleaning and detailing. The high performance motor saves energy offering **optimal performance with low environmental impact and ultimately energy savings**.

nano BigFoot® iBrid



RANDOM ORBITAL

ROTARY

TECHNICAL DATA

MODEL	HR81M	HR81ML
Voltage VDC (Volt)	10,8 - 12	10,8 - 12
R.P.M.	2000-5000	2000-5000
Battery Life	~30min*	~30min*
Charging time	~20min	~20min
Electronic speed control	•	•
Overcurrent protection	•	•
Soft Start	•	•
Led indication	•	•
Dimensions (mm)	287x70x47**	332x70x47**
Weight (g)	470**	520**

*The value is reffered to a use of the battery pack 9HB120LT, fully charged with a charger 9HC120LT and normal use with a Rupes polisher HR81M/HR81ML and functional unit orbit 12mm and Ø30mm polishing pad.
**Measured without a fuctional unit, battery pack and power supply.

ERGONOMIC DESIGN

The tapered shape of the power supply keeps the compact design and single handed operation of the tool while still providing endless operation time.

ON/OFF SPEED CONTROL DIAL

Lined in non-slip rubber, the on/off lever of the BigFoot polisher ensures a controlled soft start, giving the operator full control over the tool.

BATTERY STATUS LED

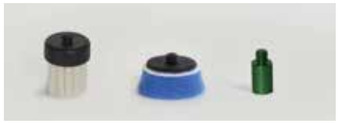
LED indicators display battery status ensuring proper maintenance of the battery itself.

BATTERY CHARGER

Custom designed to fit the NANO's unique battery pack system.

ROTARY ACTION

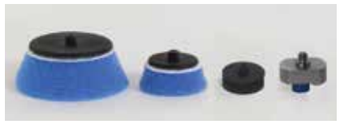
Paint fast correction on edges and profiles with **Ø30mm** (1,18" in) backing pad.
Cleaning and brushing
with special accessories



DUAL ACTION Ø3mm

Micro-sanding and denibbing
Ultra high gloss polishing with:

Ø30mm (1,18"in) backing pad
Ø50mm (1,96"in) backing pad



DUAL ACTION Ø12mm

Paint correction and high gloss polishing with:

Ø30mm (1,18" in) backing pad
Ø50mm (1,96" in) backing pad

BIGFOOT
TRIPLE ACTION

HIGH TORQUE EFFICIENCY
IMPROVED PERFORMANCE
REDUCTION IN WORKING TIMES
REDUCTION IN THE VIBRATION LEVELS

BIGFOOT LTA125 - LTA75

Triple Action Polishers

Ergonomic, lightweight, and powerful. The LTA125 introduces a new innovative technology defined as "Triple Action" in the pneumatic polisher category. The dual action random orbital movement of this pneumatic tool is combined with epicyclic gearing that delivers levels of torque and consistency, which were previously never carried out with pneumatically powered tools. This machine provides incredible balance and torque and is extremely intuitive and easy-to-maneuver and can be used for polishing operations in several industries that include automotive detailing, aviation, marine, industrial, and many more.

TRIPLE ACTION

TECHNICAL DATA

		LTA75	LTA125
Ø backing pad	mm-in	**75 - 3"**	**125 - 5"**
Ø orbit	mm-in	**15 - 19/32"**	**12 - 1/2"**
Working pressure	bar-PSIG	**6,2 - 90"**	**6,2 -90"**
Air consumption max	l/min	**380**	**400**
R.P.M.		**0-6000**	**0-6000**
Weight	kg-lbs	**0,90 - 1,15**	**1,3 - 2,13**
Speed regulation		•	•
Backing pad thread		**M6**	**M8**

HIGH TORQUE EFFICIENCY

Thanks to a special epicyclic gear reducer located in front of the cam group, the torque value is significantly increased while at the same time the velocity is reduced. With the use of this solution the impact of a variable in performance (the load applied by the user) is substantially minimized and, consequently, a greater uniformity of performance of the tool.

SPEED CONTROL

The speed controller on the handle is both practical and easy to use. The speed of the polisher can also be regulated during use, thus avoiding any interruption of the polishing operation.

ADJUSTABLE AIR OUTLET

In addition to being an air outlet, the device also acts as a silencer. Mounted on the base near the air connection, the small silencer is an extremely effective way of deadening the noise generated by the flow of compressed air.

DESIGN

The attention to detail is not limited to just the innovative and attractive design. The modern lines and exceptional technical quality are combined with a number of details that are the result of meticulous research aimed at achieving maximum operator comfort. The perfectly balanced machine body, the practical handgrip, the silent operation and minimum vibration are just some of the characteristics that help make BigFoot the most versatile and sought-after polishing system.

LHR 75

The small pneumatic random orbital polisher has a Ø15mm orbit and a Ø75mm backing pad, allowing the tool to work in awkward and difficult to reach areas. The reduced size and high cutting capacity, combined with the RUPES BigFoot Ø 80/100 mm polishing foam pads, make the LHR 75 the ideal polisher for spot repairs, polishing contoured areas and parts such as mirrors and pillars.

RANDOM ORBITAL

TECHNICAL DATA

Ø backing pad	mm-in	**75 - 3”**
Ø orbit	mm-in	**15 - 19/32”**
Working pressure	bar-PSIG	**6,2 - 90**
Air consumption max	l/min	**320**
R.P.M.		**0 - 11000**
Weight	kg-lbs	**0,65 - 1,43**
Speed regulation		•
Backing pad thread		**M6**

ELEGANTLY DESIGNED

The ergonomic hand grip also allows full control of the polisher using just one hand. The hand grip is lined with a composite material, extremely resistant to impact and mechanical stresses, designed to isolate the hand from the air ducts and guarantee greater comfort. The rubber cover guarantees maximum grip and precision in the movement of the tool when both hands are used.

SPEED CONTROL

The speed controller on the handle is both practical and easy to use. The speed of the polisher can also be regulated during use, thus avoiding any interruption of the polishing operation.

EXTREMELY LIGHTWEIGHT

The pneumatic tool weighs a mere 0.65 kg. Thanks to its light weight, polishing and Spot Repairs become fast and easy.

ADJUSTABLE AIR OUTLET

In addition to being an air outlet, the device also acts as a silencer. Mounted on the base near the air connection, the small silencer is an extremely effective way of deadening the noise generated by the flow of compressed air.

DESIGN

The attention to detail is not limited to just the innovative and attractive design. The modern lines and exceptional technical quality are combined with a number of details that are the result of meticulous research aimed at achieving maximum operator comfort. The perfectly balanced machine body, the practical handgrip, the silent operation and minimum vibration are just some of the characteristics that help make BigFoot the most versatile and sought-after polishing system.

TOOL
BACKING PAD
POLISHING PAD

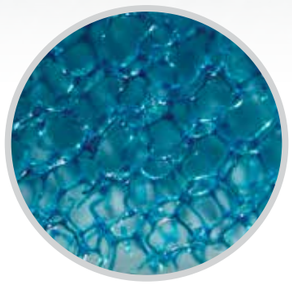
THE THREE CRITICAL SYSTEM COMPONENTS ARE DESIGNED TO WORK IN COMBINATION TO GUARANTEE LOW VIBRATION LEVELS AND THE BEST POSSIBLE POLISHING RESULT.

The BigFoot systems are designed for maximum efficiency, ease of use and operator comfort. **Using BigFoot with RUPES original** backing pads and RUPES original polishing pads results in a technical system that guarantees the best possible polishing result and ensures that the tool has perfect balance and a substantially reduced vibration level. The use of backing pads or compound carriers other than members of the BigFoot family of products can lead to a reduction in performance and can further affect the technical and mechanical characteristics of the tool, changing its balance and increasing vibration. Increased vibration not only affects the comfort and overall safety of the operator, but also results in significantly diminished tool life.


RUPES
RUPES

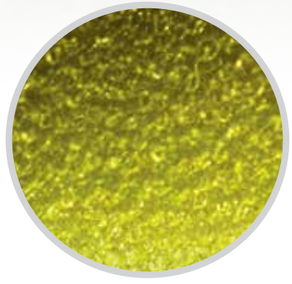
BIGFOOT FOAM POLISHING PADS

THE FOAM PAD IS ONE OF THE KEY ELEMENTS IN THE POLISHING PROCESS; MANY VARIABLES IN THE TECHNICAL SPECS HAVE TO BE TAKEN INTO CONSIDERATION TO OPTIMIZE THE PERFORMANCE. DEALING WITH DIFFERENT PAINT, COMPOUNDS OR MACHINE REQUIRES DIFFERENT FOAM TO MAKE THE JOB SAFE AND EFFICIENT.



BLUE FOAM PAD COARSE
Fast cutting performance with a top class finishing level in his category
Available for dual action machine, random or gear driven, and for single action rotary.
Different cell structure, resin and shape are fitting the different machine action and are optimized for the Rupes compound viscosity and lubrication.

Blue COARSE compounds are recommended.



YELLOW FOAM PAD FINE
Fine cut with a deep gloss finish.
Available for dual action machine, random or gear driven, and for single action rotary.
Different cell structure, resin and shape are fitting the different machine action and are optimized for the RUPES compound viscosity and lubrication.

Yellow FINE compounds are recommended.

GREEN FOAM PAD MEDIUM
Medium-fast cut performance with a top class finishing level in his category.
Available for dual action random orbital machine only
Optimized for the RUPES compound viscosity and lubrication.

Green MEDIUM compound are strongly recommended.

WHITE FOAM PAD ULTRA FINE
Formulated for a show car finish.
Available for dual action random orbital and for single action rotary.
Different cell structure, resin and shape are fitting the different machine action and are optimized for the RUPES compound viscosity and lubrication.

White ULTRA FINE compounds are recommended.

BIGFOOT FOAM POLISHING PADS

For Random Orbital and Triple Action Polishers

RUPES expanded resin foam polishing pads are specially designed for the random orbital polishing system. They produce excellent results with substantial time saving and reduced compound consumption. BigFoot's random orbital movement creates high mechanical stresses on the foam polishing pads, generating an increase in internal temperature. The innovative "open cell" structure of the BigFoot foam polishing pads prevents the build-up of heat generated during the polishing process. In addition, this particular structure guarantees maximum efficiency in the polishing process with minimum downward vertical pressure from the operator. The center hole creates superior ventilation and heat dispersion through special channels in the backing pad. The innovative design of the truncated cone shape optimizes the performance of the large diameter orbit, and at the same time protects against accidental contact between the backing pad and the work surface.

For Gear Driven Polishers

This new foam pad range has been designed to maximize the transmission of the gear driven tools mechanical movement to the work surface. The low profile, tapered, design cut from the proprietary RUPES foams performs predictably and consistently with the movement of a dual action tool. The shortened height of the foams improves user experience by reducing the overall distance from the operator to the work surface and also improves stability and control during all phases of the polishing process.

The lower profile aids in reducing pad distortion caused by the gear driven tools movement and torque output.

The new foam pad range features 3 foam types:
Blue foam pad for cutting processes
Yellow foam pad for finishing processes
White foam pad for ultra-finishing processes

BIGFOOT FOAM POLISHING PADS

For Rotary Polisher

Completely new foam formulations specifically optimized for rotary application.The system includes 3 type of foam pads designed to give the operator choices depending on the desired outcome. Open cell foam materials were chosen to minimize excessive heat.The pad profile helps to prevent accidental contact between the backing plate and the panel. 25mm thickness for each pad version available in 125mm, 150mm, or 165mm inch pad sizes.

BLUE FOAM PAD COARSE
The high performance and aggressive blue foam removes severe defects and sanding marks on painted surfaces.

YELLOW FOAM PAD FINE
Eliminates moderate surface defects and imperfections while restoring high gloss. The new foam structure provides a smooth and comfortable polishing experience.

WHITE FOAM PAD ULTRA FINE
The completely new soft foam technology removes fine imperfections and creates a unbelievably high gloss finish.
Highly recommended when using rotary on dark colors.

BIGFOOT WOOL POLISHING PADS

The new wool pad range is compatible the random orbital and the gear driven polishers included in the BigFoot family. The face of the wool pads is constructed of 100% natural fibers attached to a polyester backing material layer.
Quality control for the wool is monitored through the entire manufacturing process to ensure consistency.
The blue foam of the coarse wool pad is more rigid and dense which maximizes the translation of tool movement to the work surface, providing increased cutting power.
The yellow foam of the medium wool pad is much more flexible to allow for improved control on curves and contours, as well as providing a softer support providing improved finishing ability.

BLUE WOOL POLISHING PADS COARSE

All the pads in the coarse wool range are constructed using two distinct fiber lengths creating a dual density wool surface and a specific visible pattern. More than just an aesthetic detail, this configuration provides a great balance of cutting power and finishing ability when compared to traditional or single density wool pads.

RECOMMENDED COMPOUNDS

Coarse or medium abrasive compounds (Zephir or Quarz) are recommended when coarse wool pads will be used with a free spinning random orbital such as the LHR15 or LHR21 tools.
Mille Coarse abrasive compound is recommended when coarse wool pads will be used with the BigFoot Mille gear driven polisher.

YELLOW WOOL POLISHING PADS MEDIUM

The yellow medium wool pad range features a consistent 15mm fiber length through the entirety of the pads surface. This soft and flexible wool, paired with a soft and flexible yellow foam backing, provides excellent cutting of moderate defects, excellent finishing ability on most surfaces.

RECOMMENDED COMPOUNDS

Coarse, medium, or fine abrasive compounds (Zephir, Quarz, or Keramik) are recommended when medium wool pads will be used with a free spinning random orbital such as the LHR15 or LHR21 tools.
The selection of compound will depend on the work surface and severity of defects.
Mille Coarse abrasive compound is recommended when medium wool pads will be used with the BigFoot Mille gear driven polisher.

BIGFOOT MICROFIBER POLISHING PADS

The innovative RUPES PATENTED microfiber polishing pads are manufactured using a polyurethane resin directly injected into the structure between the velcro interface and the microfiber fabric. The resin crosslinks directly to both materials to provide a stable and secure bond without the use of adhesives. Due to the unique moulding technique, RUPES is able to offer a pad with an beveled, allowing easy conformabiliity to all shapes during the polishing process. In addition to helping dissipate heat, the centre hole also helps to correctly fit the microfiber polishing pad onto the backing plate.

CUTTING AND FINISHING
The microfiber fabric is manufactured in two versions, coarse for the correction step to enhance the cutting capacity of the abrasive, and fine for light action to promote the gloss level.

MAIN ADVANTAGES
Quick defect correction on high solids or ceramic clears coat.
High efficiency on clear coat and one stage surfaces.
Greatly reduced polishing cycle times.
Less dust on the surface during polishing process.
Comfortable and easy to use.

SPIRAL SLOTS, A REAL INNOVATION

The innovative spiral slots represent an important technical improvement with an unique design. Developed for use with BigFoot random orbital polishers, the new spiral slots guarantee:

Heat dissipation

Lighter weight for a better balance of the machine

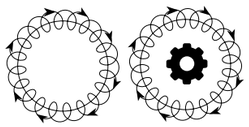
Controlled and measured spreading of the polishing compounds on the surface

BLUE MICROFIBER POLISHING PAD COARSE
The Coarse Microfiber Pads are designed for removing heavy swirl marks, scratches and oxidation from any color paintwork. The cutting version features a less dense microfiber and is perfect for use with heavy cutting BigFoot polishing compound. The special microfiber allows for the true correction power of the product used and for maximum product coverage to achieve the highest quality results on ceramic laquer.

YELLOW MICROFIBER POLISHING PAD FINE
The Fine Microfiber Pads are designed to restore the depth and clarity to your vehicle's paintwork. The high density microfiber is perfect for removing light swirl marks and holograms using fine BigFoot polishing compound. The Fine Microfiber Pads eliminate light imperfections delivering a perfect optical grade finish.

BIGFOOT POLISHING COMPOUNDS

BigFoot abrasive compounds are the result of in-depth studies and research and consist of high quality abrasive mixes, all silicone free. Polishing compounds require a unique formula to assure that the product has the perfect combination of viscosity and aggressiveness. These unique compositions result in a product whose consistency delivers the best possible solution for uniform distribution on the polishing pad. Nine different types of compounds are available, each satisfying a particular polishing need.

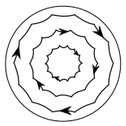


RANDOM ORBITAL AND TRIPLE ACTION POLISHING COMPOUNDS

The compounds are specifically designed for random orbital and triple action polishing. Four different types of compounds are available, Zephir (Coarse), Quarz (Medium), Keramik (Fine) and Diamond (Ultrafine). In combination with the polishing compound they satisfy every polishing need.

COARSE
A high-performance compound recommended for first step polishing. Its grain is the most "aggressive" of the BigFoot abrasives and is used for the rapid removal of marks and scratches. At the same time Coarse compound is highly effective in restoring paints and creating a high degree of gloss.

MEDIUM
A medium grain abrasive compound that easily repairs minor surface scratches and minor scoring from sources such as car wash brushes. Medium Compound can be used with full confidence that it will not leave halos or holograms.



MILLE POLISHING COMPOUNDS

The abrasive action is related to the tool movement, rotary or orbital; there are visible variations in temperature, cutting speed and amount of energy delivered onto the surface. The new mille abrasive compounds are formulated to get the best performance from the gear driven system.

ROTARY POLISHING COMPOUNDS

This range is formulated for the rotary polishers maximum efficiency, paint shop safe and suitable for any car paint, refinish or OEM. They are the result of accurate research on high quality abrasive powders, to obtain the correct mix of fast cutting and good finish.

FINE
The ideal composition for perfect finishes on particularly hard clear coats. This fine water-soluble abrasive compound is ideal for totally eliminating paint defects and for a hologram-free final step of spot repair, following the microabrasive nib removal process.

ULTRA FINE
Specifically formulated for the final finishing pass and its ultra-fine abrasive generates a deep lustre and color depth. The product is water soluble, allowing for easy removal of any residue. The extreme lustre and gloss that all professionals have sought for years are finally easily within reach!

UHS POLISHING SYSTEM

Designed for scratch resistant and high solid ceramic paints, the RUPES UHS Polishing System REMOVES IMPERFECTION AND LEAVES A HIGH-GLOSS FINISH IN JUST 1-STEP. The UHS foam pads also perform well with the RUPES Zephir (Blue), Quarz (Green) and Keramik (Yellow) compounds in heavy correction and gloss enhancement applications with most types of clear coat paints.

UHS EASY GLOSS
Ultra High Solid Surface Polishing Compound

UHS FOAM POLISHING PAD
High Solids Clear Coat Polishing Pad

RUPES®

Due to its constant desire to improve its products, RUPES S.p.A. reserves the right to make any technical or design modification to its products without prior notice. The manufacturer shall not be responsible for printing errors. This document voids and replaces previous ones.

RUPES S.p.A

Via Marconi 3A
20080 Vermezzo (MI) - Italy

T +39 - 02.94.69.41
F +39 - 02.94.94.10.40

E info_rupes@rupes.it
W www. rupes.com

RUPES USA, Inc.

14320 Longs Peak Court
Longmont, CO 80504-9698 USA

T +1-970-535-0100
F +1-303-723-8680

E orders@rupesusa.com
W www.rupesusa.com

9.Z826/18/GB
8 055271 655925

Follow us on:

Cod. 9.Z826/18/GB