

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [PHALANX](#) /

› [PHALANX 4V Rotary Tool - Cordless with 80 Accessories](#)

## PHALANX TG-PRT R4 Max-Grey

# PHALANX 4V Cordless Rotary Tool Instruction Manual

Model: TG-PRT R4 Max-Grey

## INTRODUCTION

The PHALANX 4V Rotary Tool is a versatile and portable power tool designed for a wide range of DIY and crafting tasks. Equipped with an enhanced 380 motor and a high-capacity 4000mAh lithium-ion battery, it offers powerful performance and extended runtime. Its cordless design provides unparalleled convenience, allowing you to work on various materials such as wood, plastic, steel, aluminum, stone, ceramic, and glass.

## Key Features

- **Powerful Motor & Portable Design:** Features an enhanced 380 motor for robust power output up to 28000 RPM, minimizing vibration and noise. Its cordless and lightweight design ensures ease of use anywhere.
- **Large Capacity Battery & Fast Charging:** Integrated 4000mAh Li-Ion battery charges quickly via Type-C USB in 2-4 hours. Includes an LED battery indicator and digital display for clear status monitoring.
- **Shaft Lock Safety & Memory Function:** Designed with an integrated shaft lock and switch linkage for enhanced operational safety. The gear memory function retains the last set speed for 5 minutes after shutdown.
- **Compact & Ergonomic Grip:** Boasts a compact, lightweight body with an ergonomic design and non-slip soft rubber grip for comfortable and extended use, ideal for delicate tasks.
- **Rich Accessories & Versatile Use:** Comes with 80 pieces of accessories for carving, sanding, polishing, drilling, grinding, and even pet nail grooming, offering strong compatibility for various projects.

## PRODUCT OVERVIEW

Familiarize yourself with the components of your PHALANX Rotary Tool for optimal use.

# CORDLESS AND PORTABLE NOT BOUND BY WIRES

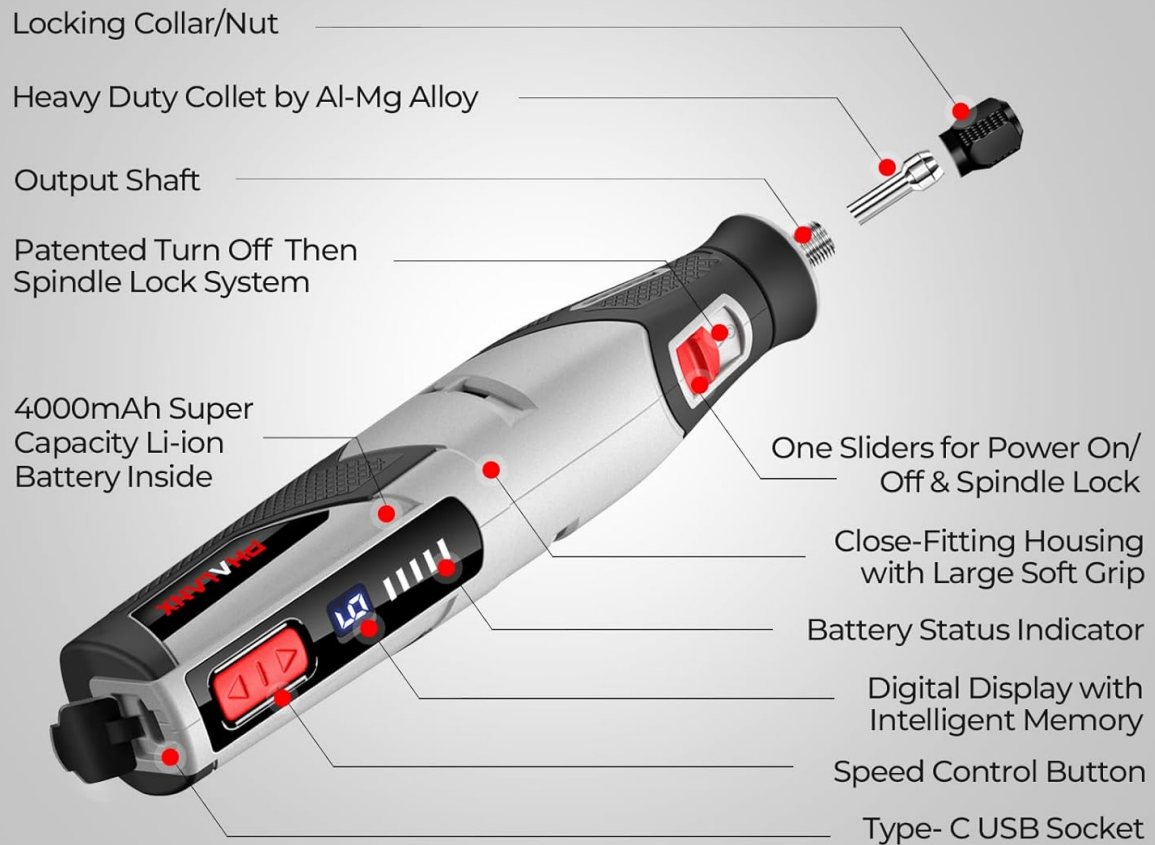


Image: Detailed diagram showing the various parts of the PHALANX Rotary Tool, including the locking collar, heavy-duty collet, output shaft, spindle lock system, 4000mAh battery, power on/off sliders, battery status indicator, digital display, speed control button, and Type-C USB socket.

## Included Accessories

# 80PCS STURDY ACCESSORIES



*Image: The PHALANX Rotary Tool displayed alongside its comprehensive set of 80 accessories, including various sanding bands, polishing wheels, grinding stones, drill bits, cutting discs, mandrels, and a wrench, all organized within its carrying case.*

The kit includes the rotary tool, a Type-C USB wire, a user manual, a tool box, and 80 pieces of accessories, including various bits for different applications.

## SETUP

### Charging the Tool

Function	Picture	Accessory Description	Wood	Plastic	Steel	Aluminum	Stone	Ceramic	Glass
Sanding		Sanding Paper	✓						
		Sanding Band	✓	✓	✓	✓		✓	✓
Carving/ Engraving		Diamond Bit	✓	✓	✓	✓		✓	✓
		HSS Cutter	✓	✓					✓
Drilling		HSS Drill Bit	✓	✓					
Grinding/ Sharpening		Blue Grinder						✓	✓
		Red Grinder			✓	✓			
Cutting		Fiberglass Wheel			✓	✓			
		Diamond Disc	✓	✓	✓	✓		✓	✓
Polishing / Cleaning		Felt Wheel	✓	✓	✓	✓		✓	✓
		Rubber Grinder	✓	✓	✓	✓		✓	✓
Accessories		Collets							
		Wrench							
		Mandrel for cut off wheel							
		Sanding shank							
			To clamp accessories						
			For replacing the accessories						
			To link Sanding paper / Diamond cutting wheel / Cut off wheels / Grinding wheels						
			Mandrel drum for sanding bands installation						

Before first use, fully charge the rotary tool. Connect the provided Type-C USB wire to the tool's charging socket and plug the other end into a compatible USB power source (e.g., power bank, laptop, wall charger). The LED battery indicator will illuminate and show charging progress. A full charge typically takes 2-4 hours. The tool features an LED battery indicator and a digital display that provides a clear battery and speed display.

## Attaching Accessories

# BUILT-IN TURN OFF & LOCK SYSTEM

Prevent unexpected stop by mistakenly pressing;  
Facilitates the replacement of accessories.

Spindle Lock      OFF Power      ON Power

To attach or change an accessory, ensure the tool is powered off and the spindle is locked. Push the power on/off and spindle lock slider to the 'Lock' position (rear position). This will prevent the shaft from rotating. Loosen the



locking nut on the collet, insert the desired accessory rod, and then firmly tighten the locking nut using the provided wrench. Always ensure the accessory is securely fastened before operation.

## OPERATING INSTRUCTIONS

### Power On/Off and Speed Adjustment



To power on the tool, push the power on/off and spindle lock slider to the 'On' position (front position). The tool has 9 speed settings, ranging from 6000 RPM to 28000 RPM. The speed can be adjusted by pressing the speed control button. The digital display will show the current speed level. The tool also features an intelligent speed memory function, retaining the last set speed for 5 minutes after shutting down, which is convenient for continuous work.

### Using Different Attachments

The PHALANX Rotary Tool is designed for various applications. Select the appropriate accessory and speed setting for your task and material.

- **Sanding:** Use sanding bands or paper discs for smoothing surfaces. Adjust speed based on material hardness.
- **Cutting:** Utilize cut-off wheels for light cutting of wood, plastic, or thin metals. Ensure proper safety gear.

- **Grinding/Sharpening:** Use grinding stones for sharpening tools or shaping materials.
- **Carving/Engraving:** Attach diamond bits or HSS cutters for detailed work on various materials.
- **Polishing/Cleaning:** Use felt wheels or bristle brushes with polishing compound for a smooth finish.
- **Drilling:** Use HSS drill bits for small holes in wood or plastic.

# PORTABLE POWERFUL MULTIPURPOSE

Great for light DIY and handmade decoration-making



*Image: A collage demonstrating the PHALANX Rotary Tool in action for multiple purposes, including sanding wood, polishing metal, carving, and drilling, highlighting its versatility for DIY and craft projects.*

*Video: An official seller video showcasing the PHALANX 4V Cordless Rotary Tool and its 80 accessories, demonstrating its various functions like cutting, sanding, polishing, and engraving on different materials.*

## MAINTENANCE

### Cleaning

After each use, wipe the tool's housing with a clean, dry cloth to remove dust and debris. Regularly clean the collet and accessories to prevent buildup that could affect performance. Do not use harsh chemicals or abrasive materials for cleaning.

### Storage

Store the rotary tool and all accessories in the provided tool box in a cool, dry place, away from direct sunlight and moisture. Ensure the tool is fully charged before long-term storage to maintain battery health.

## TROUBLESHOOTING

- **Tool not turning on:** Ensure the battery is charged. Check the power slider is in the correct 'On' position.
- **Accessory slipping or loose:** Make sure the locking nut is tightened securely. Ensure the correct collet size is used for the accessory.
- **Reduced power or runtime:** Fully charge the battery. If issues persist, the battery may need replacement.
- **Excessive vibration or noise:** Check if the accessory is properly installed and balanced. Ensure the tool is not damaged.

For issues not covered in this manual, please contact PHALANX customer support for assistance.

## SPECIFICATIONS

Feature	Specification
Brand	PHALANX
Model Number	TG-PRT R4 Max-Grey
Voltage	4 Volts
Power Source	Battery Powered (Lithium Ion)
Battery Capacity	4000mAh
Charging Time	2-4 hours (Type-C USB)
Speed Settings	9 levels (6000-28000 RPM)
Item Weight	1.48 pounds
Included Components	Rotary Tool, Type-C USB Wire, User Manual, Tool Box, 80 PCS Accessories, Wrench Tool

## WARRANTY AND SUPPORT

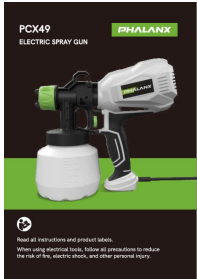
PHALANX stands behind the quality of its products. For any questions, concerns, or support needs regarding your rotary tool, please contact PHALANX Innovation Direct through their official Amazon store or customer service channels. Please refer to your purchase documentation for specific warranty details, if applicable.

### Related Documents - TG-PRT R4 Max-Grey



[Phalanx PRT4335 Rotary Tool User Manual and Safety Guide](#)

Comprehensive user manual and safety guide for the Phalanx PRT4335 Rotary Tool, covering operation, maintenance, accessories, and warranty information.



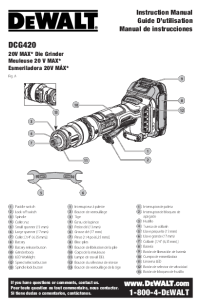
[PHALANX PCX49 Electric Spray Gun User Manual](#)

User manual for the PHALANX PCX49 HVLP Electric Spray Gun. Learn about safety, operation, maintenance, and troubleshooting for this 1200ML capacity paint sprayer designed for household use.



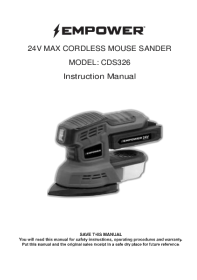
[Phalanx Airless Paint Sprayer RP8620 User Manual and Operating Guide](#)

Comprehensive guide for the Phalanx Airless Paint Sprayer RP8620, covering safety instructions, technical specifications, setup, operation, maintenance, cleaning, and troubleshooting.



[DeWALT DCG420 20V MAX\\* Die Grinder Instruction Manual](#)

Comprehensive instruction manual for the DeWALT DCG420 20V MAX\* Die Grinder, covering intended use, safety warnings, features, operation, assembly, maintenance, and troubleshooting.



[EMPOWER 24V MAX Cordless Mouse Sander CDS326 Instruction Manual](#)

Official instruction manual for the EMPOWER 24V MAX Cordless Mouse Sander, Model CDS326. Provides comprehensive safety guidelines, operating procedures, specifications, assembly instructions, maintenance tips, parts list, and warranty information for the cordless sander.



[Hyper Tough 8.0V Max Cordless Rotary Tool Instruction Manual](#)

This manual provides comprehensive instructions for the Hyper Tough 8.0V Max Lithium-ion Cordless Rotary Tool, covering safety guidelines, operation, maintenance, accessory usage, and specifications. Learn how to safely operate and care for your rotary tool.



