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> Jar-Owl 21V Cordless Drill Set User Manual

Jar-Owl tool sets

Jar-Owl 21V Cordless Drill Set User Manual

Model: tool sets | Brand: Jar-Owl

1. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating this power tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings:

- **Work Area Safety:** Keep work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, hearing protection, and appropriate clothing. Use safety glasses, a dust mask, non-skid safety shoes, hard hat, or hearing protection for appropriate conditions. Stay alert, watch what you are doing and use common sense when operating a power tool.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Store idle power tools out of the reach of children.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

2. PACKAGE CONTENTS

Your Jar-Owl 21V Cordless Drill Set includes the following items:

- 1 x Jar-Owl Cordless Power Drill
- 1 x 1.5 AH Battery Pack
- 1 x Fast Battery Charger
- 1 x Storage Box
- 3 x HSS Twist Drill Bits
- 3 x Brad Point Drill Bits
- 6 x 50mm Screwdriver Bits

- 1 x Flexible Shaft (250mm)
- 9 x Sockets
- 10 x 25mm Screwdriver Bits
- 1 x 50mm Bit
- 1 x 60mm Magnetic Extension Bar
- 1 x 20mm Connecting Extension Bar

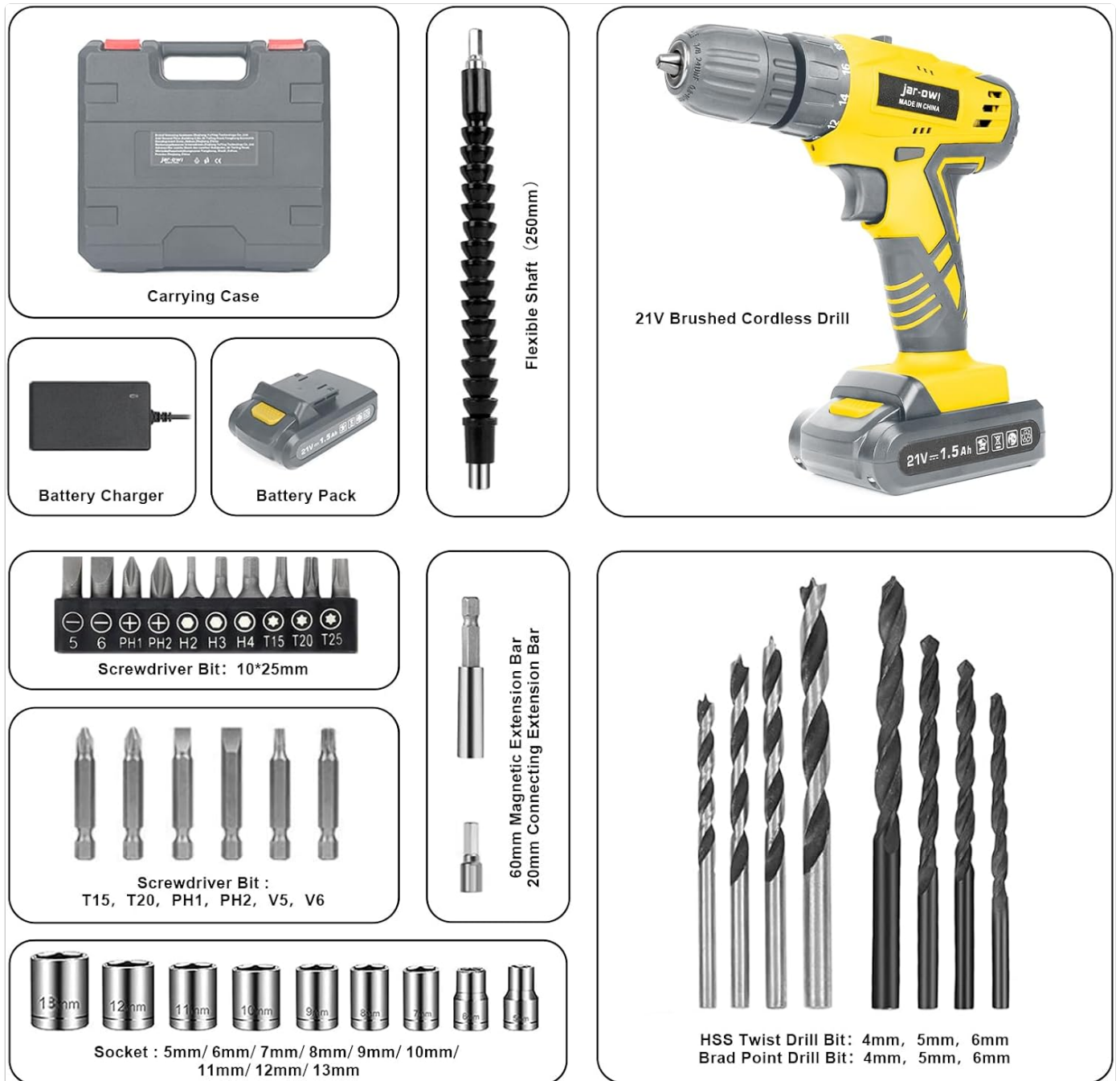


Figure 2.1: All components included in the Jar-Owl 21V Cordless Drill Set, neatly organized in the carrying case.

3. PRODUCT OVERVIEW

The Jar-Owl 21V Cordless Drill Set is designed for versatility and ease of use in various home improvement tasks.

Key Features:

- **Powerful Motor:** Equipped with an all-copper brushed motor, providing reliable performance for drilling into wood, metal, and plastic.

- **Variable Speed & Torque:** Features an 18+1 speed adjustable clutch and 2-gear options (0-350 RPM for driving, 0-1350 RPM for drilling) with a maximum torque of 350 in-lbs.
- **Keyless Chuck:** A 3/8-inch keyless chuck allows for quick and easy bit changes without additional tools.
- **Long-lasting Battery:** Comes with a 1.5Ah Li-Ion battery pack, offering extended use and quick recharging. The battery includes patented protection functions against over-voltage, over-temperature, overload, and over-charge.
- **Integrated LED Light:** A built-in bright LED light illuminates the work area, improving visibility in dark spaces.
- **Ergonomic Design:** The soft rubber handle provides a comfortable grip, reducing fatigue during prolonged use. The drill is lightweight at approximately 2.4 lbs (1.1 kg).
- **Flexible Shaft:** An included 250mm flexible shaft allows access to screws and drilling spots in tight or awkward angles.



Figure 3.1: The Jar-Owl 21V Cordless Drill Set, showcasing the drill, battery, charger, and the organized accessory kit within its durable carrying case.

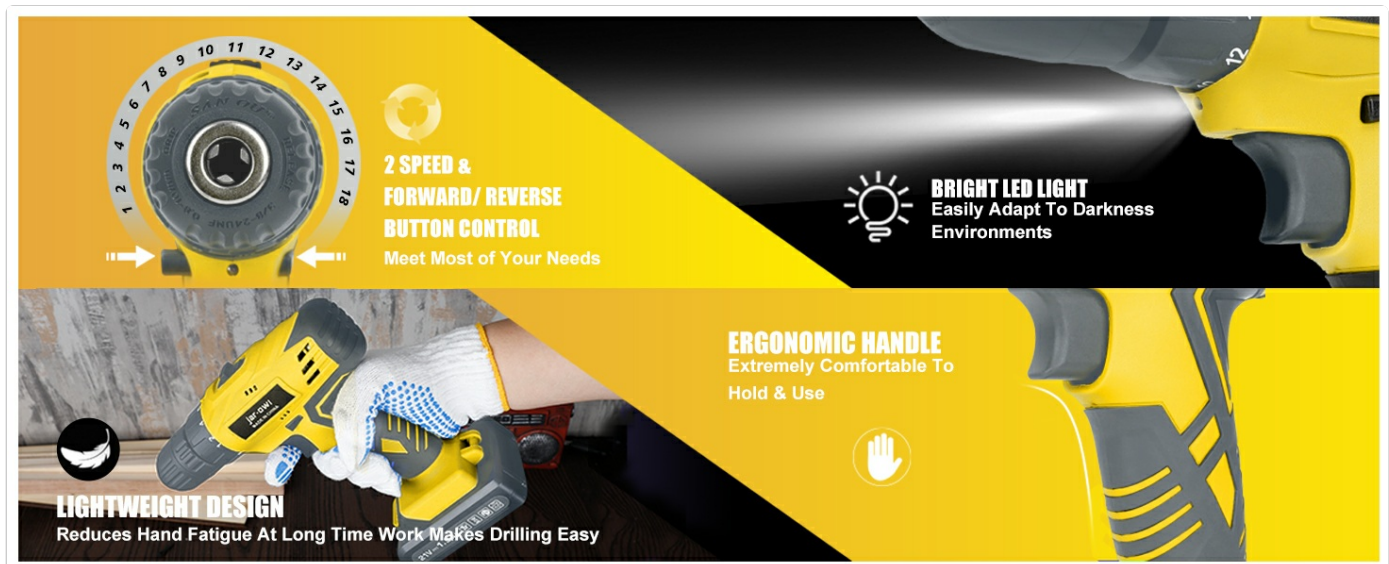


Figure 3.2: Visual representation of the drill's lightweight design, integrated LED light, and ergonomic handle for user comfort.

4. SETUP

4.1 Charging the Battery

1. Connect the fast battery charger to a standard 180-240V AC power outlet.
2. Slide the 1.5Ah Li-Ion battery pack onto the charger.
3. The red light indicator on the charger will illuminate, indicating that the battery is charging.
4. Once fully charged (approximately 60 minutes for a full charge, or 3-5 hours for initial charge), the green light will illuminate.
5. Disconnect the charger from the power outlet and remove the battery.

1.5 TIMES EXTRA-LONG LI-ION LIFE SPAN

Patented battery protection function



Figure 4.1: The battery pack connected to the charger, showing the red light for charging and green light for full charge. The battery also features multiple protection functions.

4.2 Attaching and Detaching the Battery

- **To Attach:** Align the battery pack with the base of the drill handle and slide it firmly until it clicks into place.
- **To Detach:** Press the release button on the battery pack and slide it off the drill handle.

4.3 Installing Drill Bits and Accessories

1. Ensure the drill is turned off and the forward/reverse switch is in the center (locked) position.
2. Twist the front part of the keyless chuck counter-clockwise to open the jaws.
3. Insert the desired drill bit, screwdriver bit, or accessory into the chuck jaws. Ensure it is inserted as far as possible.
4. Twist the front part of the keyless chuck clockwise to tighten the jaws securely around the bit. Hand-tightening is sufficient.
5. To use the flexible shaft, insert its hexagonal end into the chuck and tighten. Then, insert the desired screwdriver bit into the flexible shaft's magnetic end.

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Video 4.2: Demonstration of attaching the battery, changing bits using the keyless chuck, and utilizing the flexible shaft for hard-to-reach areas.

5. OPERATION

5.1 Variable Speed Trigger

- The drill features a variable speed trigger. Pressing the trigger further increases the speed.
- Release the trigger to stop the drill.

5.2 Speed Gear Selection

The drill has two speed settings, selected via a switch on top of the drill:

- **Gear 1 (Low Speed: 0-350 RPM):** Ideal for driving screws and applications requiring higher torque and more control.
- **Gear 2 (High Speed: 0-1350 RPM):** Suitable for drilling and applications requiring faster rotation.

2 SPEED TRANSMISSION

MEET MOST OF YOUR NEEDS



Figure 5.1: The drill's 2-speed transmission allows for optimal performance whether driving screws at low RPM or drilling at high RPM.

5.3 Torque Adjustment (Clutch Settings)

The 18+1 position torque adjustment ring allows you to select the appropriate torque setting for different materials and screw sizes. The 'drill' icon setting bypasses the clutch for maximum torque for drilling applications.

- **Settings 1-4:** For driving small screws into soft material.
- **Settings 5-9:** For driving screws into soft material.
- **Settings 10-13:** For driving screws into soft and hard material.
- **Settings 14-16:** For driving screws into hard wood.
- **Settings 17-18:** For driving larger screws.
- **Drill Icon:** For drilling operations, providing maximum torque without clutch slippage.

18+1 GEAR TORSION ADJUSTMENT

MAX TORQUE : 40NM

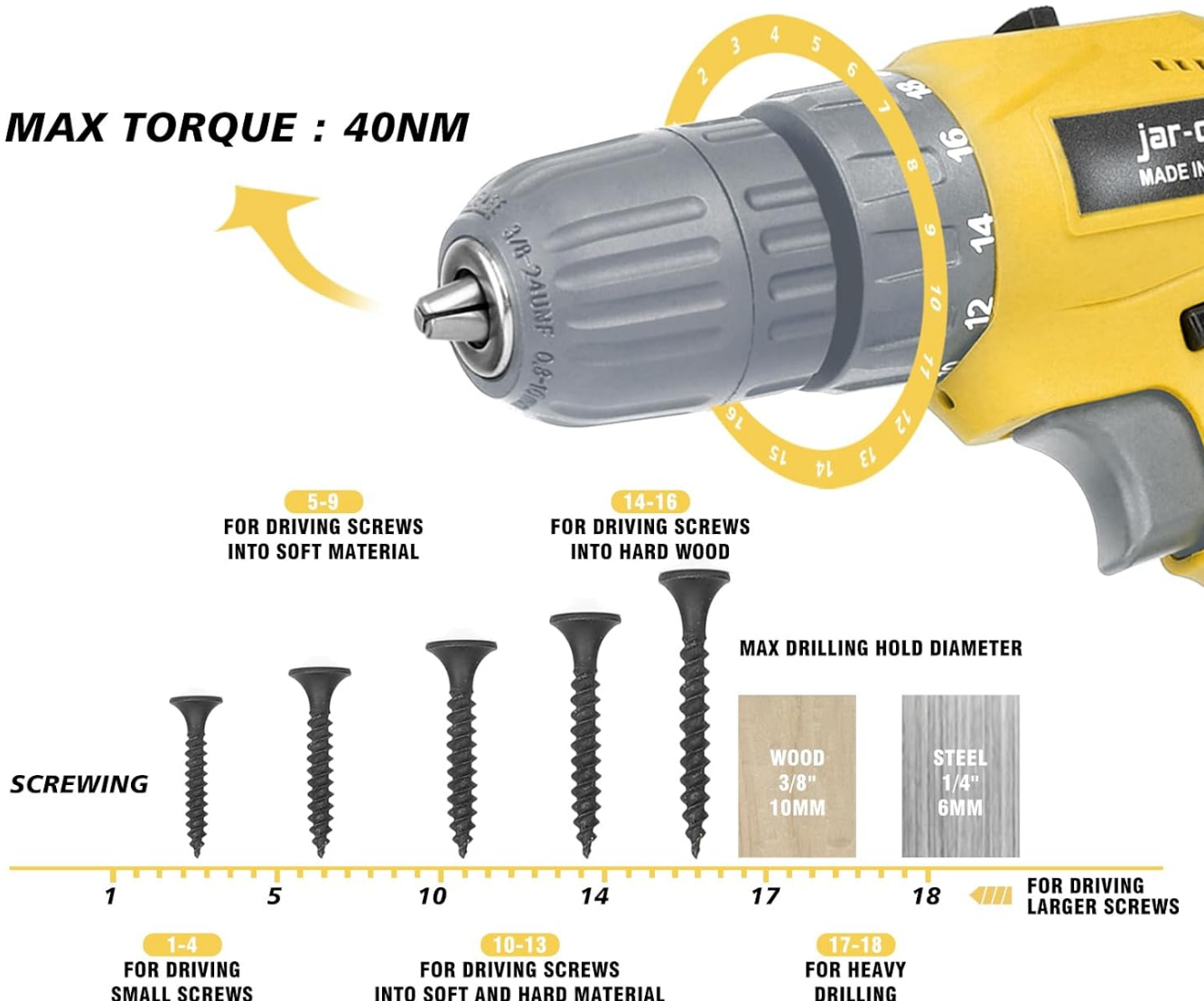


Figure 5.2: Detailed view of the 18+1 gear torsion adjustment ring, illustrating recommended settings for various screw driving and drilling tasks.



Figure 5.3: The drill supports three working modes: screw driving, drilling, and impact drilling, adaptable via the torque settings.

5.4 Forward/Reverse Rotation

- The forward/reverse switch is located above the trigger.
- Push the switch to the left for forward rotation (clockwise).
- Push the switch to the right for reverse rotation (counter-clockwise).
- For safety, place the switch in the center position to lock the trigger and prevent accidental starting.



Figure 5.4: The rotation button allows for easy switching between forward and reverse, facilitating installation and disassembly tasks.

6. MAINTENANCE

- **Cleaning:** Keep the ventilation slots of the tool clean to prevent overheating. Use a soft, damp cloth to clean the tool casing. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the drill and accessories in the provided storage box in a dry, secure place, out of reach of children.
- **Battery Care:** Store the battery pack in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to about 50% capacity.
- **Bit Maintenance:** Keep drill bits and screwdriver bits clean and sharp for optimal performance. Replace worn or damaged bits.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not start.	Battery not charged or not properly inserted. Forward/reverse switch in locked position.	Charge battery. Ensure battery is securely attached. Move forward/reverse switch to desired direction.
Loss of power during operation.	Battery low. Overload protection activated.	Recharge battery. Reduce pressure on the drill or use a lower speed setting.
Bit slips in chuck.	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Tighten chuck firmly by hand. Clean or replace the bit.
Drill overheats.	Prolonged heavy use. Ventilation slots blocked.	Allow drill to cool down. Clear any obstructions from ventilation slots.

8. SPECIFICATIONS

Feature	Specification
Model	tool sets
Power Source	Battery Powered
Voltage	21 Volts
Battery Type	Li-ion
Battery Capacity	1500 mAh
Max Chuck Size	3/8 inch (10mm)
Chuck Type	Keyless
Clutch Settings	18 + 1
No. of Speed Settings	2 (Low and High)
No-load Speed	0-350 RPM / 0-1350 RPM
Max Torque	350 inch-pounds (40 Nm)
Drilling Capacity (Wood)	22 mm (7/8 inch)
Drilling Capacity (Metal)	10 mm (3/8 inch)
Drill Dimensions (L x W x H)	7.9" x 2" x 8.3"
Item Weight	2.4 lbs (1.1 kg)

9. WARRANTY AND SUPPORT

The Jar-Owl 21V Cordless Drill Set comes with a **Three Year Warranty** from the date of purchase.

For any questions, issues, or warranty claims, please visit the official Jar-Owl product page on Amazon and click on the seller's name to contact customer support directly. Our team is dedicated to providing unparalleled after-sales service.

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