

English Version

1. Product Overview

This product is an electric drill to angle grinder adapter (also known as cutting disc/polishing wheel holder, connecting rod adapter), a multi-functional upgrade accessory for electric drills. It has two SKUs: 10mm diameter hexagonal shank and 6mm diameter round shank. Both are integrally formed of high-strength metal material, precisely compatible with various handheld electric drills, and can quickly convert ordinary electric drills into angle grinders. It is compatible with various consumables such as cutting discs, polishing wheels, and buffing wheels, and is widely used in metal cutting, stone polishing, wood polishing, metal derusting, wall sanding and other operation scenarios. It eliminates the need to purchase additional angle grinders, greatly improving the utilization rate of electric drills, and is a practical tool for industrial processing, home decoration construction, auto repair and DIY crafts.

Core Advantages: Sturdy and wear-resistant material, high concentricity, easy installation and wide adaptability. It can effectively transmit electric drill power, ensure stable operation without shaking during cutting/polishing, accurately control operation precision, and has good anti-slip and anti-fall design, balancing work efficiency and use safety. The two SKUs are respectively compatible with electric drills of different chuck

specifications to meet diverse usage needs.

2. Product Parameters

Parameter Name	10mm Hexagonal Shank	6mm Round Shank
Product Name	Electric Drill to Angle Grinder Adapter (10mm Hexagonal Shank)	Electric Drill to Angle Grinder Adapter (6mm Round Shank)
Material	High-strength carbon steel (surface quenching treatment, rust-proof, wear-resistant and deformation-resistant)	High-strength carbon steel (surface quenching treatment, rust-proof, wear-resistant and deformation-resistant)
Adapter Rod Diameter (Shank)	10mm (hexagonal shank, standard spindle diameter, compatible with universal angle grinder consumables)	6mm (round shank, compatible with light angle grinder consumables, more stable clamping)
Maximum Rotational Speed	≤12000r/min (compatible with electric drill speed, exceeding the speed may damage accessories)	≤10000r/min (compatible with small electric drill speed, avoiding breakage caused by high-speed operation)
Core Functions	Convert electric drill to angle grinder, fix cutting/polishing consumables, transmit power, stable operation	Convert electric drill to angle grinder, fix light cutting/polishing consumables, transmit power, adapt to small electric drill operations
Applicable Scenarios	Metal cutting, stone polishing, wood polishing, metal derusting, wall sanding, hardware	Small metal cutting, fine polishing, wood polishing, home appliance maintenance, DIY crafts, small workpiece

	accessory processing, etc.	processing, etc.
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Selection Tips: The 10mm hexagonal shank model is compatible with conventional household/industrial electric drills, has stronger load-bearing capacity, and is suitable for medium and heavy-duty operations; the 6mm round shank model is compatible with small portable electric drills, more suitable for fine operations, light polishing and DIY scenarios. Please select according to the electric drill chuck specification and operation needs.

3. Application Scope

This product has two SKUs: 10mm hexagonal shank and 6mm round shank, both specially designed to upgrade electric drills to angle grinders. It realizes multi-functional operations such as cutting, polishing and buffing of electric drills through the adapter rod. The core applicable scenarios are as follows:

3.1 Application Scope of 10mm Hexagonal Shank

- Metal Processing: Cutting and chamfering of metal materials such as steel plates, steel bars and steel pipes, derusting, polishing and buffing of metal surfaces, and precision processing of hardware accessories;
- Home Decoration Construction: Wall sanding, tile cutting, stone polishing, polishing and edge trimming of wooden doors and furniture, cleaning and sanding of floor gaps;
- Auto Repair: Derusting of car body, polishing of chassis, buffing of parts, tire polishing, brake pad polishing, etc.;
- Industrial Auxiliary: Cutting and polishing of small workpieces, derusting and maintenance of equipment surfaces, polishing of pipes, trimming of interfaces, etc.

3.2 Application Scope of 6mm Round Shank

- Precision Processing: Cutting of small metal parts, fine polishing, buffing of metal ornaments, polishing and trimming of hand-made products;
- Daily Maintenance: Derusting of home appliance casings, maintenance and polishing of furniture, polishing and trimming of small pipes and hardware accessories;
- DIY Crafts: Handmade model making, polishing of wooden crafts, cutting of small plastic parts, meeting the needs of home DIY creation;

- Light Operations: Local wall sanding, cleaning of tile gaps, light polishing of small stones and wood.

Note: Both products are only applicable to handheld electric drills, not to other electric tools such as impact drills and electric hammers; they cannot be used to cut flammable, explosive, high-hardness (such as diamond, hardened steel) and other special materials to avoid damaging the product or causing safety hazards; the 6mm round shank model is prohibited from being used for heavy-duty cutting operations to prevent adapter rod breakage.

4. Installation Steps

1. Preparation: Ensure the electric drill is powered off, turn off the electric drill switch and unplug the power plug, clean the dust and debris in the electric drill chuck, and check if the chuck is flexible; at the same time, check if the adapter rod (confirm the shank type according to the SKU: 10mm hexagonal shank/6mm round shank), fixing nut and gasket are intact without cracks, deformation or other damage;
2. Install the Adapter Rod: Insert the chuck end (10mm hexagonal shank/6mm round shank) of the adapter rod into the electric drill chuck. (to ensure firm fixation). Then tighten the electric drill chuck, shake the adapter rod by hand to confirm no looseness;
3. Install Consumables: Select the corresponding specification consumables according to the selected SKU, put the gasket on the consumable installation end (thick end) of the adapter rod, then align the cutting disc/polishing wheel/buffing wheel and other consumables with the adapter rod, and slide them in smoothly to ensure that the center hole of the consumable is completely attached to the adapter rod without deviation;
4. Fix Consumables: Put another gasket on the outside of the consumable, then screw on the fixing nut, and tighten it gently with a wrench (do not over-tighten to avoid damaging the consumable or the adapter rod thread), ensure the consumable is firmly fixed without shaking;
5. Installation Check: After installation, turn the adapter rod by hand to confirm that the consumable rotates smoothly without jamming or shaking, and the electric drill chuck, adapter rod, consumable and fixing nut are all free of looseness before turning on the power.

5. Usage Method

1. Pre-operation Check: Reconfirm that the adapter rod (corresponding to the SKU shank type) and consumables are firmly installed, the electric drill switch is in the off state, check that there are no flammable, explosive items or obstacles in the operation area, and clean the dust and debris on the operation surface;
2. Wear Protection: Must wear safety goggles (to prevent debris from splashing into eyes), high-temperature resistant gloves (to prevent scalds and scratches), dust mask (to avoid inhaling polishing dust) during operation, and earmuffs if necessary (to reduce noise interference);
3. Electric Drill Debugging: Connect the electric drill to the power supply, turn on the low-speed gear, idle for 30 seconds, observe the rotation state of the adapter rod and consumables, and confirm no shaking or abnormal noise; the 10mm hexagonal shank model can adjust the speed according to the operation needs (medium and low speed for cutting, medium and high speed for polishing/buffing), and the 6mm round shank model is recommended to keep running at medium and low speed, avoiding exceeding 10000r/min;
4. Operation: Hold the electric drill, keep the electric drill perpendicular to the operation surface, move at a constant speed, avoid pressing the consumable hard (to prevent the consumable from breaking and the motor from overloading); the 10mm model keeps a 15-30° angle when cutting, suitable for medium and heavy-duty operations; the 6mm model is suitable for fine operations, keep the consumable parallel to the operation surface when polishing/buffing, avoid excessive force;
5. Operation Interruption: If abnormal noise, shaking, overheating of consumables and other abnormal conditions occur during operation, immediately turn off the power of the electric drill, unplug the plug, wait for the consumable to stop rotating completely, check whether the adapter rod and consumable are loose or damaged, and continue operation only after troubleshooting;
6. Post-operation Treatment: After the operation is completed, turn off the power of the electric drill, unplug the plug, wait for the consumable to stop rotating completely, then disassemble the consumable and adapter rod, clean the dust and debris on the adapter rod and consumable, and store them properly to avoid collision and falling.

Tips: For the 10mm hexagonal shank model, use resin cutting discs for metal cutting and diamond cutting discs for stone cutting; for the 6mm round shank model, it is recommended to use light consumables, coarse grinding for derusting and deburring, and fine grinding for polishing and brightening; both products need to match

consumables according to the electric drill power to avoid overloading.