



TECHNICAL MANUAL
DIAMOND CORE DRILL
BITS 68/72/82 MM
EKF EXPERT

1 DESCRIPTION

Diamond core drill bits EKF EXPERT are designed for coring (drilling blind holes) in concrete, brick, natural and artificial stone, and dense limestone with a hole diameter of 68/72/82 mm.

WARNING! Do not use the core bit in impact mode!

2 DESIGN AND OPERATION

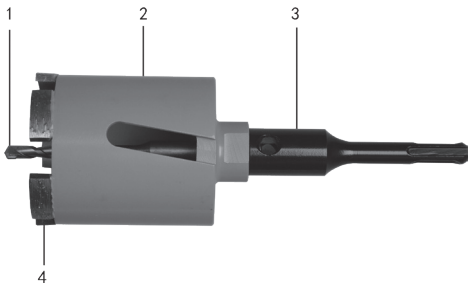
The core bit is a section of round pipe with cutters on one side and a flange or shank for mounting in a chuck, an impact hammer or a drill on the other. The core bit has lateral slots to facilitate dust and swarf extraction when drilling through concrete. The cutting edge is coated with diamond grit for rapid drilling at high speeds in stone, concrete, brick, ceramic or stoneware tile.

3 TECHNICAL DATA

The main technical data are listed in Table 1 below.

Table 1

Parameter	Value	
Diameter, mm	68 / 72 / 82	
Number of cutters	5 / 5 / 6	
Cutter type	Diamond impregnated	
Cutter joining method	Laser welding	
Cutter height, mm	10	
Hub size	M16	
Centering bit	6,5	
Shank type	SDS-plus	
Cut depth	70 mm	
Two-piece	Yes	
Materials	Core	heat-treated tool steel
	Centering bit	heat-treated alloy steel
	Cutting edge	contains industrial diamond dust



1. Centering bit
2. Openings for cooling, dust and core extraction.
3. SDS-plus adapter (bit holder)
4. Segmented diamond cutters

The core bit has a two-piece design. The adapter and/or the centering bit can be replaced, if necessary. To do this, unscrew the adapter from the seat and/or remove the centering bit from the adapter.

4 DELIVERY SCOPE

1. Diamond core drill bit- 1 pc;
2. Centering bit - 1 pc;
3. SDS-plus adapter - 1 pc;
4. Tapered drift pin for centering bit removal - 1 pc;
5. Documentation available via the QR-code on the insert or on the inside of the package.

Do not overtorque! After starting the hole, remove the centering bit and continue drilling with the core bit only. Start the hole at low speed to avoid bit walking. To extend tool life, use a specialized lubricant for drills and adapters.

5 SAFETY REQUIREMENTS AND PRECAUTIONS

WARNING! All electrical installation work must be carried out by qualified electrical personnel. The seller is not liable for any damages caused by faulty wiring, incorrectly laid out circuits, lack of earthing, poor contact due to loose screw terminals, or any other reason related to non-compliance with general safety regulations or inadequate quality of the electrical installation.

Observe industry-specific safety rules and regulations when operating the tool.

Do not operate the tool when tired, under the influence of alcohol, drugs or medication.

This tool is not a toy, keep away from children. Take a stable position when operating the tool. Do not use unstable scaffolding, ladders or supports.

Inspect the tool before starting the work. Do not use defective equipment and accessories, including blunted tools. Damaged or malfunctioning tool can cause injury to you or others.

Do not put your fingers or other body parts in the work area during operation.

Do not touch the working part during operation, as this may result in injury.

Do not operate the tool in impact mode.

The list of warnings and precautions provided herein is not exhaustive.

This technical manual cannot cover the full range of potential cases and events. Caution and common sense cannot be integrated into a tool, but should be practiced by the user.

Before starting the work, make sure that the tool and equipment are appropriate for the job and material at hand.

Before starting the work, carefully study the manual for the power tool that will be used.

WARNING! Prior to drilling, use wall scanners to detect hidden live wires, rebar or other obstacles that may cause injury to the user and/or damage to the tool.

Do not attempt to disassemble the core drill bit immediately after use. The tool may become hot through friction when drilling. Allow some time for the core drill bit to cool down.

Water cooling increases the service life of the tool.

Do not operate the diamond core drill bit in impact mode. This will not speed up the operation, but it will damage the bit!

Do not overtorque the tool. After starting the hole, remove the centering bit from the holder and continue drilling with the core bit only.

Always use hand, respiratory and eye protection when working!

6 STORAGE AND TRANSPORTATION

Diamond core drill bits must be stored on racks in a dry, clean place. Do not store the tool in a place subject to corrosion.

Diamond core drill bits EKF EXPERT can be transported by any means of enclosed transport that ensures protection of packed products from impact damage and weather exposure.

They shall be stored indoors, in their original packaging, at the ambient temperatures from -40°C to +50°C and relative humidity of max. 80% at +25°C.

7 DISPOSAL

Life-expired and failed products shall be disposed of in compliance with the effective national and local laws and regulations. If the packaging is no longer required, it can be recycled.

8 MANUFACTURER'S WARRANTY

No performance warranty is given on the product.

Warranty period: 30 days from the date of sale. Does not cover natural wear and tear, misuse, abuse or improper storage. Do not overheat. Service life: 10 years. Store in a clean, dry place. Avoid exposure to moisture.

The warranty does not cover defects arising from:

- improper storage, installation, operation and maintenance of the tools;
- improper transportation and handling of the tool;
- exposure to corroding substances;
- misuse or abuse of the tool;
- deliberate tampering with the tool;
- fire, elemental, force majeure damages to the tool.

The manufacturer reserves the right to make changes to the tool without prior notice.

Not subject to mandatory certification. Use only for the intended purpose.

Manufacturer: For information, refer to the product package.

Importer and EKF trademark service representative: EKF ELECTRICAL SOLUTION – FZCO, Dubai Silicon Oasis, DDP, Building A2, Dubai, United Arab Emirates.

Importer and EKF trademark service representative on the territory of the Russian Federation: OOO «Electroresheniya», Otradnaya st., 2b bld. 9, 5th floor, 127273, Moscow, Russia. Tel.: +7 (495) 788-88-15.

Importer and EKF trademark service representative on the territory of the Republic of Kazakhstan: TOO «Energoresheniya Kazakhstan», Kazakhstan, Almaty, Bostandyk district, Turgut Ozal st., 247, apt 4.

9 CERTIFICATE OF ACCEPTANCE

Diamond core drill bits EKF EXPERT have been approved for operation.

Date of manufacture:

For information, refer to the product package.

Technical control stamp





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