

# 3-Speed Diamond Core Drill DK 52

400 V (230 V) / 3 ~

*Oil-Bath Lubrication with Oilpump*  
*High-Duty Overload Clutch*  
*Water-Proof Protection Class IP 55*



*thermal Motor Protection*  
*high Efficiency*  
*Antifriction-Element*  
*Super silent Motor*

| Technical Data:           | Type  | DK 52              | DK 52S      |
|---------------------------|-------|--------------------|-------------|
| Nominal Power             | W     | 5200               | 5200        |
| Output Power              | W     | 4000               | 4000        |
| Nominal Speed (Full Load) | 1/min | 130/260/410        | 160/310/490 |
| Total Length              | mm    | 580                | 580         |
| Weight                    | kg    | 22,9               | 22,9        |
| Drilling Ø in Concrete c. | mm    | 110 - 500          | 80 - 450    |
| Tool Fixture              |       | 1 1/4"             | 1 1/4"      |
| Foot fastening Standard   |       | 4 x M8 with groove | 10 x 4,3    |

Diamond  
Core Drills

**WEKA**

Diamond  
Wall Saws

With the DK 52 WEKA has extended the successful series of water cooled diamond core drills for professional operation up to a drilling diameter of 500 mm.

Apart from the extremely high **output power of 4000 W**, the DK 52 possesses with 22,9 kg an exceptionally favourable power weight, as well as a high working safety.

Further more the DK 52 possesses on the whole following features:

**3 - speed change gearing** - Large drilling range (s. techn. Data) with favourable adapting the speed to the respective drilling diameter.

**Oil-bath lubrication** - Optimal gear lubrication for high efficiency, high durability and less maintenance. The new and high effective oil pump takes care for an optimal lubrication for the first fast step of gear even in vertical operation.

**Overload clutch** - This novel multiple disk clutch protects operator, machine and tool against high mechanical overload. The bigger numbers of friction surfaces guarantees a nearly constant release torque even after many hundreds of release cycles of the clutch.

At proper use consequently a readjustment between the usual intervals of maintenance is not longer required.

**Antifriction-Element** - This smart ring fixed on the drill spindle is able to reduce the release torque for loosening the drill bit considerably.

**Three-Phase Motor** - Extremely durable, robust, sealed (IP55) and low maintenance motor, without brushes and rotating windings.

The very low speed causes only low motor noise. The speed drop at full load is minimal.

**Motor Protection** - By thermal switches integrated in the stator windings the motor is protected by detecting the actual motor temperature. Thus the motor is protected immediately in case of overload unsymmetrical voltage or phase failing.

**Motor Cooling** - The DK 52's motor is cooled optimally by a patented water cooling. The cooling water flows controlled through the interspace between the case sleeve and the motor case.

Due to this intensive cooling an excellent output power by low weight is achieved, yet by this design the electric parts are separated from the cooling and thus the electric safety is guaranteed.

**Metal casing** - Motor and gearbox are made from aluminum. This makes the DK 52 mechanically and thermally stable and durable contrary to plastics cases.



The DK 52 is switched by a double press key assembled in the terminal case on the top of the machine. The main current is as well switched by a contactor assembled into a separate plug-resp. contactor case. By this device the motor is switched solid and exactly as well as an under voltage trip according EN 60 204 is realized.

To enable a correct setting of the phase-sequence respectively the rotation, the CEE plug is fitted with a phase inverter.

**WEKA and environment** - WEKA electric tools are mainly made of aluminum and steel. Plastics are only used if it is unavoidable. WEKA electric tools are durable. Scrap-mature machines will be taken apart completely and separated materially.

Thereby WEKA machines are 90% recyclable.

**Safety** - The DK52 corresponds to the water protectin class IP 55 according to EN60529, i.e. on proper use no water can enter the machine. Therefore it is possible to drill overhead without any further precautions.

Further more the DK52 corresponds to the European regulations.

### **WEKA Elektrowerkzeuge**

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