

Diamond Core Drill

SR 25 MAMMUT

Water-cooled SR motor

Splash water proof according IP 55

Soft turn - screwing speed for easy assembling of the bit



Low in maintenance, due to no carbon brushes and turning windings
6 motor speeds selectable while drilling
Scale of drilling diameter on the display

Technical Data:	Rated Voltage	V	230
	Rated Current	A	16
	Nominal Power	W	3700
	Output Power	W	2700
	Speeds	1/min	230* - 280 - 340 - 410 - 490 - 570
	Nominal Torque	Nm	110
	Length	mm	440
	Weight	kg	14,7
	Drilling Ø in concrete approx.	mm	70 - 370
	Tool Fixture		1 1/4" or M33/3

* this speed is power reduced

Diamond
Core Drills

WEKA

Diamond
Wall Saws

My name is **MAMMUT** SR 25. My motor is a further development of the SR - drive for core drills that is already used in several WEKA machines.

As already the SR35 I have a power of 3,7 kW on 230 Volt with a weight of only 14,7 kg.

Especially following features show my outstanding skills:

SR Motor - my motor is based on the principle of the switched reluctance motor (SR = switched reluctance). My stator is very robust built simple. My rotor consists of a shaft on which there are strung several single steel laminations. Thus my motor works without any turning windings or short circuit rotor and therefore also without commutator and wear-affected carbon brushes. My motor is saving resources, it consists almost only of steel and copper.

The commutation (alternating current feed of the stator poles) is managed by my power electronic which gets its orders from a microcomputer as my super brain. The speed is over the whole capacity range almost constant, therefore the start drilling is made easier, the wear is reduced and the efficiency of the drill bit is increased. I can work with six fine adjusted speeds which can be chosen while drilling on my robust keypad with a +/- button, thereby I show in a clearly readable LED display the suitable drilling diameter to my operator.

I do not have gear speeds and thus I am lighter than my bigger brother SR35.



Motor protection - my motor current is controlled corresponding to the requirements and limited to the maximum. Therefore I cannot be overloaded.

Via thermal protective switches the actual appearing temperature of my motor and the power electronic is registered and depending on that I will be switched off safely. Thus my motor and my power electronic are protected *directly* against thermal overload which may occur on insufficient cooling.

Oil bath lubrication with oil pump - my gear is thus lubricated optimally in all general purposes and thus offers a high efficiency on long lifetime and little maintenance.

Safety Clutch - due to my new motor I am fitted with a novel multi flange clutch which protects my operator, the tools and me against high mechanical overload. The higher number of friction surfaces guarantees a nearly constant releasing torque even after a few hundred overload cycles. Through the limiting of the torque by the motor management the wear out of the clutch is extremely low.

Soft turn - by choosing the Soft Turn, I assemble the drill bit all but on my own. Speed and torque are hereby highly reduced for safety reasons.

Water Cooling - my motor together with my power electronic is optimally cooled by a water cooling system that is patented by WEKA. It is already used successfully in my colleagues, the DK 42 and DK 52 and my family members SR 35, SR 65 and SR 75.

Hereby the water flows controlled through the interspace between the motor case and the case sleeve. Through this arrangement my electrical part is completely separated from the cooling and thus the electrical safety is guaranteed.

Metal Case - my skin is completely made of aluminum. Thereby I am very robust, thermally stable and thus prepared for the professional use outstandingly. My casing is protected at the sensitive side by a laterally running carrying handle.

Lifetime - The operating hours counter which is integrated in my micro controller lets me work for 300 hours permanently. Then I show my operator that I want to be maintained by only starting, when my start button is pressed three times.

As **MAMMUT** SR25 I am not only very strong and robust, but also water protected according IP 55 regarding EN 60 529, i.e. with proper use water cannot enter my inner life. Thus I am able to drill upwards in a vertical position (overhead drilling) without any further precautions.

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