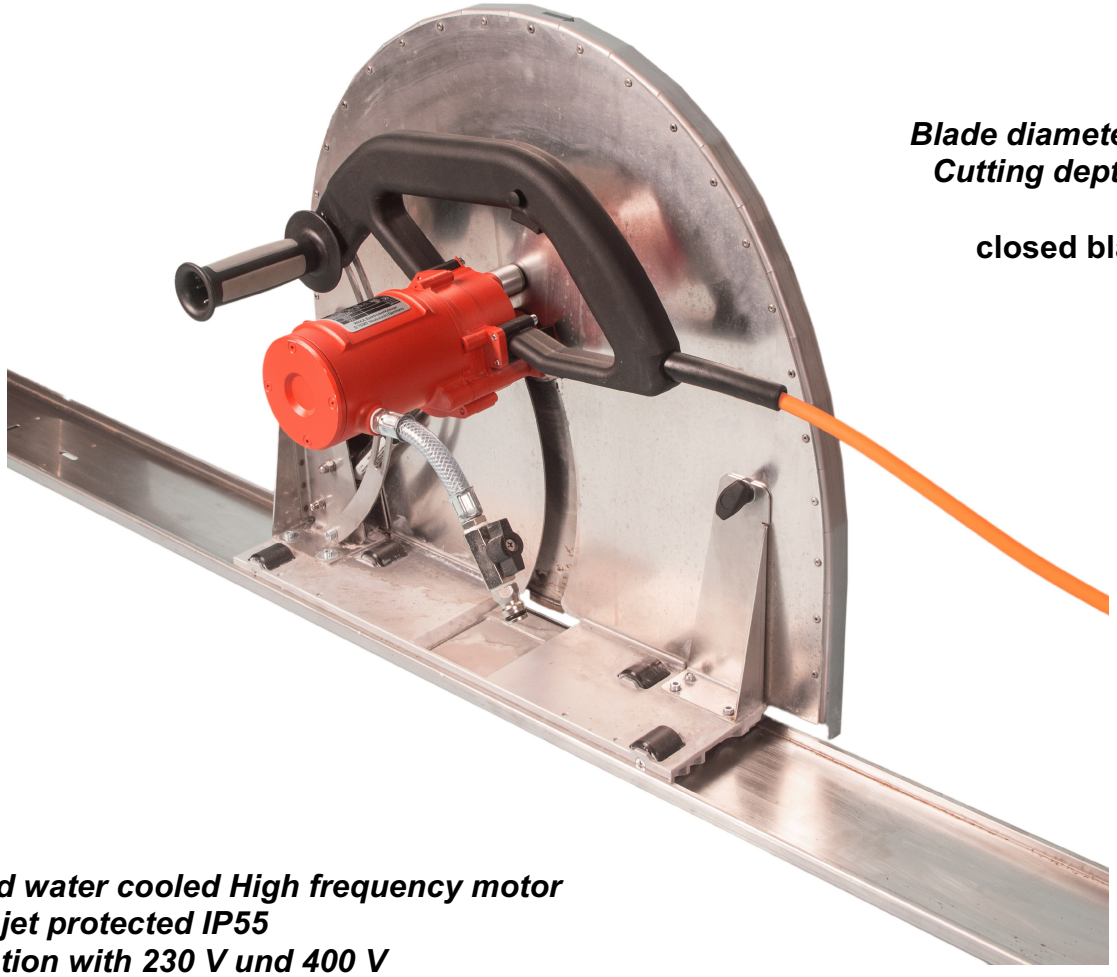
Diamond Wall Saw hand guided
HS 50 EMMA



Blade diameter 500 mm
Cutting depth 210 mm

closed blade guard

Closed water cooled High frequency motor
water jet protected IP55
Operation with 230 V und 400 V

Technical Data:	**Type**		**HS 50**
	Rated Voltage	V	230 / 400
	Nominal Power	W	3700 / 6500
	Output Power	W	2800 / 4800
	Nominal current	A	16 / 13,5
	Cutting Depth	mm	210
	Saw Blade Ø	mm	500
	Mounting Hole	mm	20
	Speed	1/min	1850
	Weight without saw blade and rail	kg	12,5

Hello, I am EMMA HS50, the new hand guided diamond wall saw from WEKA.
I cut with my diamond saw blade with 500 mm diameter concrete walls and masonry up to 210 mm deep and all this manually operated with support of a simple guide rail, so that my operator can hold and guide me even easier. Simple fix the guide rail with two concrete screws, place me on the rail and let's go.

High frequency drive
My nominal power at 230 Volt is the maximum possible 3700 W and at 400 Volt 3 AC even 6500 W.
My motor is water-cooled with the cooling principle patented by WEKA. The cooling circuit is hereby completely separated from the electrical part of the motor. If in case of very robust handling my seals fail, the cooling water does not enter the inner of the motor, but only leaks to the outside.

Motor control
I am controlled by a very efficient converter, the FU6D, which is located in a small and stable aluminium box. The water-cooled frequency converter FU6D can drive and control all devices of the ANNA and EMMA series as well the HD16 and HD18 as a universal drive unit. It supplies me with the required energy, controls my current input and speed. The integrated (Powerfactor Correction) makes sure that I do not take wattless current from the mains, but only energy which I can convert into mechanical power.



My converter recognizes, if I am connected to 230 V or to 400 V and adapts current and power accordingly. My motor current is controlled according to the requirements and limited to the maximum. Thus I can not be overloaded. The temperature of my motor is checked constantly. If I am loaded too much or cooled too less, my power electronic switches me off before anything can happen.
Status and error signals are indicated to the user via an LED mounted on the frequency converter.

Handling and operation
Via the converter FU6 D I am connected to the 230V/400V mains. By turning the handle my dip feed is released. The diamond saw blade is now dipped to the requested cutting depth manually and my dip feed is now locked again via the handle. If my handle is released and no dip feed is applied the saw blade returns again into the blade guard completely by a gas spring. By this design my operation safety is increased. By the adjustment of the parallel rockers the ergonomic position of my handhold arrangement is changed only insignificantly. If I am supposed to cut dry, my motor can still be water cooled, while the water flow is deflected by a by-pass valve.

Stability and weight
Due to the favorable arrangement of the parallel rockers I am very stable and can be easily moved linearly by means of the four guide rollers and the lateral guide rails.
As measured by the high nominal power of 6500 W I am still light and handy with a weight of 12,5 kg.

Corrosion and water protection
All considerable parts on myself are rust-proof. My casing and my guide bars are made of aluminum and all significant operating elements are made of stainless steel.
My converter and myself are not only very powerful and robust, but water jet protected according to protection class IP 55 according EN 60 529, i.e. on conventional use no water can enter into my interior.

Oil lubrication
Of course my gear is - like all gears from the WEKA family - provided with an oil bath lubrication. And thus efficient, low in maintenance and long-living.

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