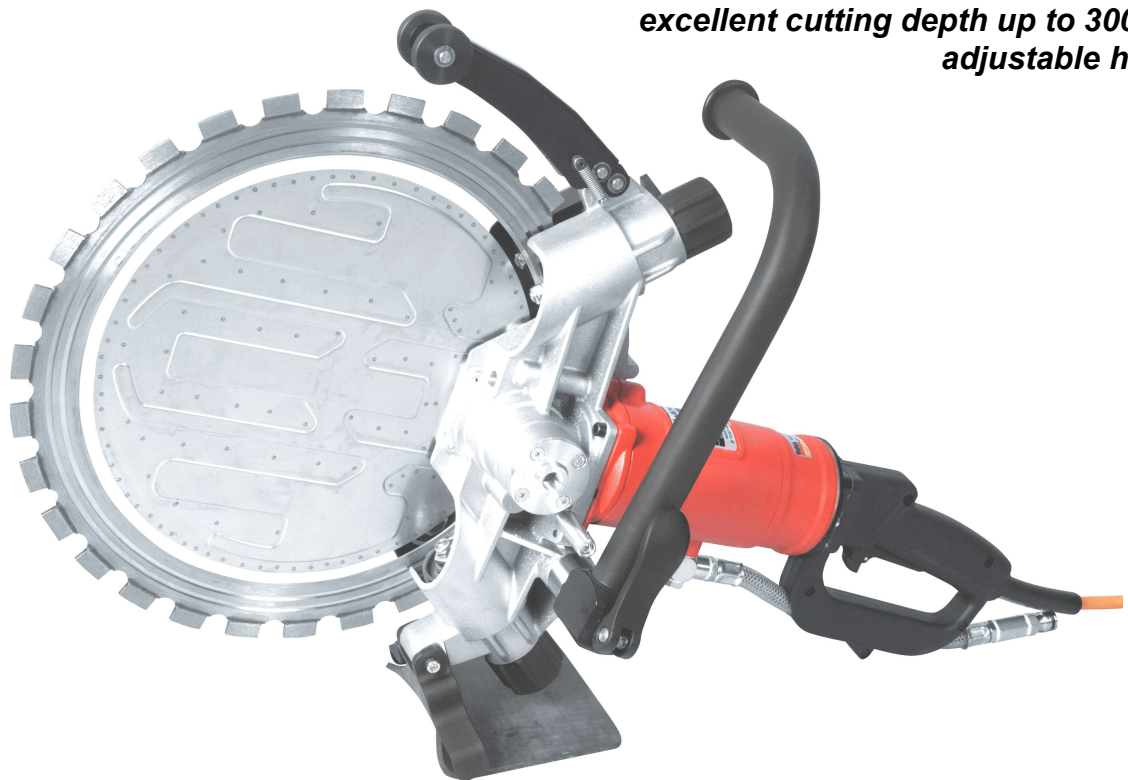


TR40 ANNA Diamond Ring Saw



*excellent cutting depth up to 300 mm
adjustable handle*

*closed water-cooled high frequency motor
splash water proof according IP55
operation with 230 V and 400 V*

Technical data:	Type	TR40	TR40
Nominal voltage	V	230	400
Nominal power	W	3700	6500
Output power	W	2700	4800
Nominal current	A	16	13,5
Cutting depth	mm	300	300
Saw blade Ø	mm	400	400
Speed	1/min	2000	2000
Weight (without cutting equipment)	kg	13,5	13,5

Hello, I am TR40 ANNA, the new diamond ring saw from WEKA.

I am the powerful diamond chain saw for the multi-purpose use in concrete, masonry, stone and for iron pipes. With my diamond ring blade of 400mm diameter, I cut concrete walls and masonry up to 300mm deep, and this manually.

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

Handling and operation

Via my converter I am connected to the 400 V mains. For use at 230 V mains my adapter cable is used. By the adjustable handle I can be adapted to every sawing job optimal. My integrated safety switch prevents an unintended start of the motors as far as possible. The diamond ring saw blade is dipped manually into the basic material to be cut. By slow forward and backward movements the desired cut is made.

Changing my ring saw blade and the drive wheel can be done without the need for any tools.

Cutting equipment

The ring saw blade has two grooves in order to reduce the wearout of the guide rollers. The innovative roller guide allows a low-wear sawing with significantly increased lifetime. The drive wheel as well as all wheels that are in contact with the ring saw blade are made of wear resistant, hardened steel.

Corrosion and water protection

My case and blade guard are made from aluminium, all main parts of me are rustproof. My converter is not only very powerful and robust, but also splash water proof according protection class IP 55 referring to EN 60 529, i.e. on proper use no water can enter into my internal.

Oil bath lubrication

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

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