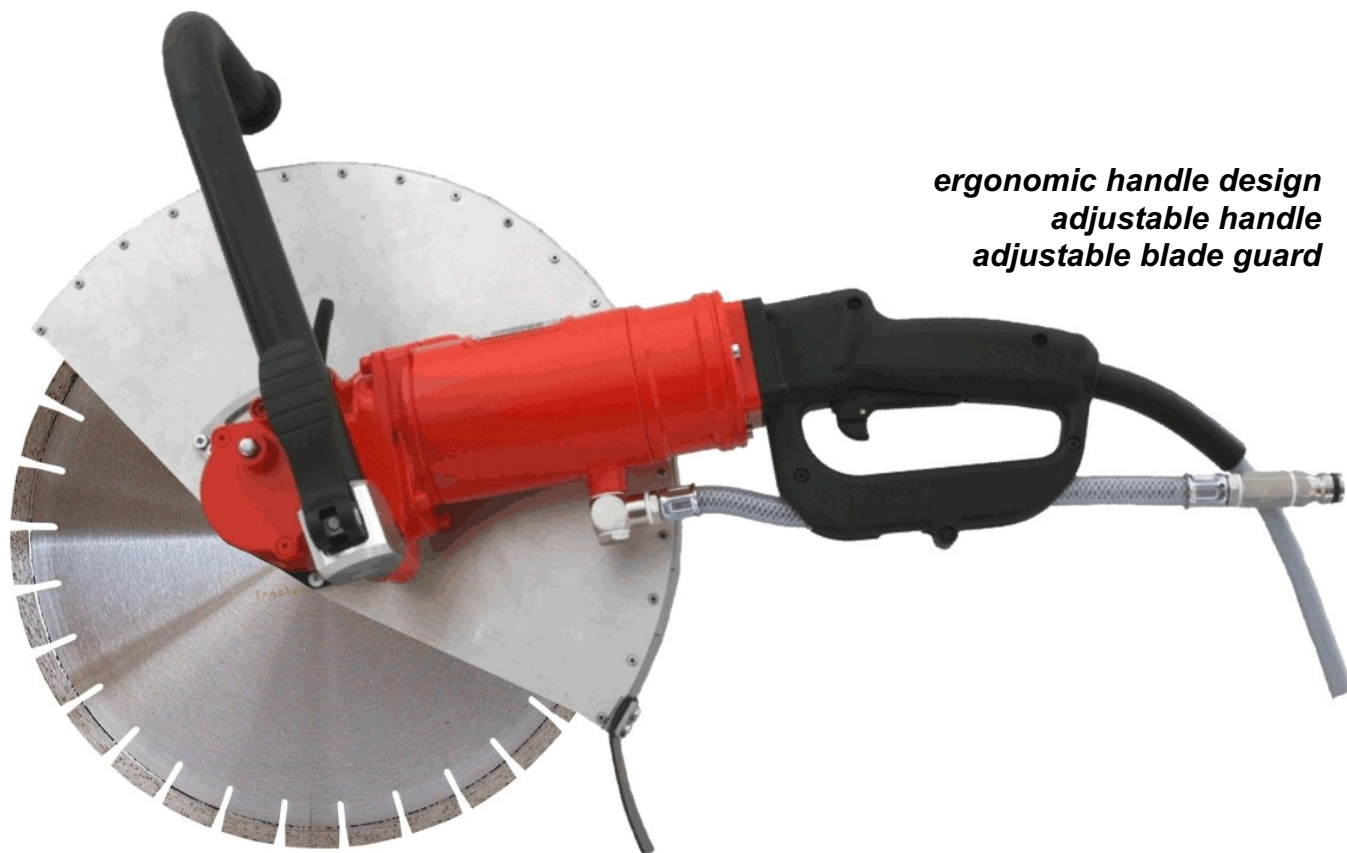


# TS 40 ANNA Diamond Disc Saw



*ergonomic handle design  
adjustable handle  
adjustable blade guard*

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

Technical data:	Type	TS 40	TS 40
Nominal voltage	V	230	400
Nominal power	W	3700	6500
Output power	W	2700	4800
Nominal current	A	16	13,5
Cutting depth	mm	165	165
Saw blade Ø	mm	400	400
Fixture hole	mm	25,4 (1")	25,4 (1")
Speed	1/min	2500	2500
Weight	kg	9,4	9,4

Diamond  
Core Drills

**WEKA**

Diamond  
Saws

## **Hello, I am Anna, the new diamond disc saw from WEKA.**

I am the powerful disc saw for the multi-purpose use in stone, asphalt, concrete and masonry. With my diamond saw blade of 400mm diameter, I cut concrete walls and masonry up to 165mm 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 FU 6, which is located in a small and stable aluminium box. 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.

### **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 and the variable position of my blade guard 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 saw blade is dipped into the basic material to be cut manually. By slow forward and backward movements the desired cut is made. If I am supposed to cut dry my motor can further on be cooled by water, by changing the water flow through the bypass outlet.

My blade change is very easy, as the fixing screw is accessible without hindrance by a blade guard cover in the blade guard which is fitted with a bayonet cap and thus can be removed easily.

Of course the water cooling happens indirectly via the saw spindle and thus cools the diamond tool perfectly. The ball valve is thereby attached under the switch handle in the way that it can be easily operated with the forefinger without letting the saw loose.

### **Stability and weight**

My aluminium case makes me stable and light at the same time - as measured by the high nominal power of 6500 W I am with 9,4 kg very handy.

### **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.

### **Life time**

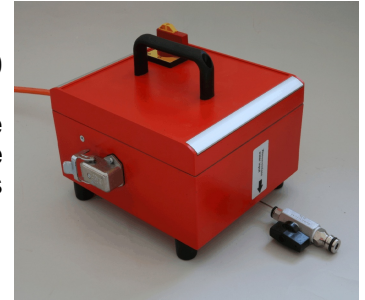
The operation hours counter which is integrated in my micro controller allows myself to work to 300 h permanently. After that I show my operator that I want to be maintained by starting only when my start button is pushed three times.

### **WEKA Elektrowerkzeuge e.K.**

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Frequency converter FU6