

Electric Rotation Arm Wall Saw WS 76H FRIDA

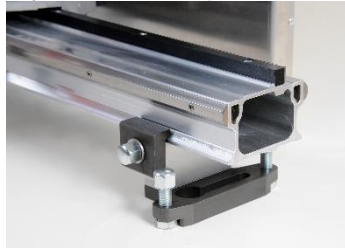


Technical Data

Rated power of the saw motor:	kW	14
Output power of the saw motor:	kW	11
Rated speed of the sawing spindle:	1/min	1100 - 1700
max. saw blade diameter:	mm	750 (930)
max. cutting depth (saw blade Ø 75cm):	mm	320 (410)
feed power - longitudinal and dip feed:	N	2000
Speed - longitudinal feed:	m/min	0-3
Speed - dip feed:	1/min	0-1
Weight:	kg	28
Blade fixture:	mm	25,4 (1")
Saw flange for flush cut		90 - 6xM8

My name is FRIDA WS76H, I am the new developed version of the known FRIDA WS75. With my new HF-motor, I got a higher performance though I am much lighter. Now I am so light, that you don't need to deconstruct me and even weaker men can carry me around.

With my saw blade of 750 mm diameter, I cut concrete walls and masonry up to 320 mm deep without taking care of reinforcement.



My track is composed of a torsion rigid aluminum profile with attached prismatic guides made of stainless steel. I am slide-guided on the saw blade side, so there is a small distance between the saw blade and the rail attachment. In addition, this guide made of a special material compound is low-wear and vibration-damping. On the opposite side, I am guided on the guide rail via prism rollers that are pivoted and attach me to the guide rail by means of two levers.



The power transmission is done by an oil lubricated gear with an integrated overload clutch in my rotation arm. An integrated safety clutch prevents gear and tool damages in case of emergency.

The output spindle is arranged very solid and nearly free from clearance between two taper roller bearings.

My feed drive is robust and powerful. Longitudinal as well as dip feed perform a feed power of 2000N.

My movements are coordinated by an easily to handle control. An intelligent regulation is responsible for a nearly constant feed power which is automatically adapted depending on the current of the saw motor. A red LED is indicating an overload. If the overload is disregarded, the electronic switches off the saw completely. If the saw blade is jammed the overload clutch absorbs the appearing top load before the motor electronic shuts down the saw.



My 11 kW high-frequency motor is water-cooled and water protected according to IP 55.

The cooling principle separates the cooling circulation totally from the electrical part of the motor. If my seals should fail in very rough handling, the cooling water doesn't get into the inside of my motor but only outwards.

So in this motor design a dangerous contact between cooling water and motor winding is avoided.

I'm controlled by a high-power frequency converter that delivers me the needed energy. This power generator is placed with the necessary control system in a stable box which has protection class IP 55 as well. The frequency converter FU15D can be used universal and with the second plug connection it can even control every WEKA high-frequency-machine. More features are a display that shows all relevant data, switching between 32A / 16A (400V) and you can update the converter with your Android smartphone.



Of course, I am noise emission suppressed. This is important to prevent any disturbances with computer, radio- and television systems. You can also start and operate me via a fault current protective switch with a rate current of 30mA because my filter is producing a low leakage current.