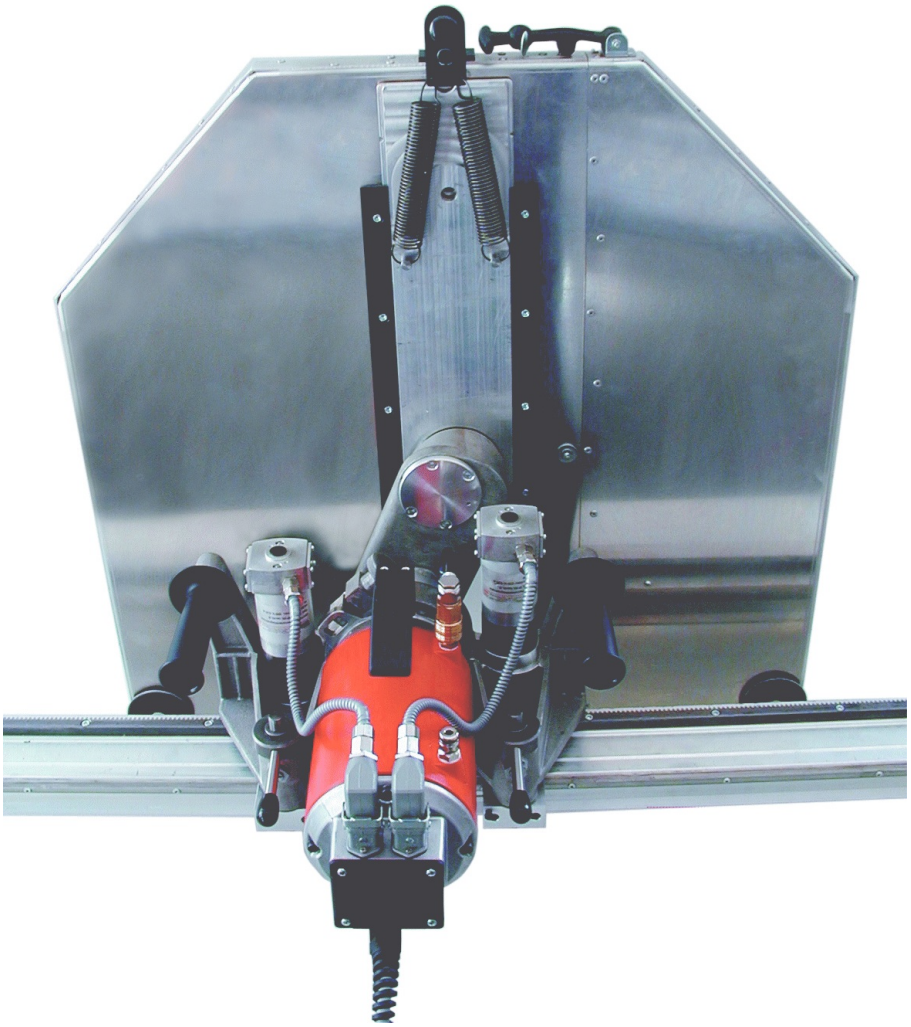
Electric Rotation Arm Wall Saw WS 75 FRIDA

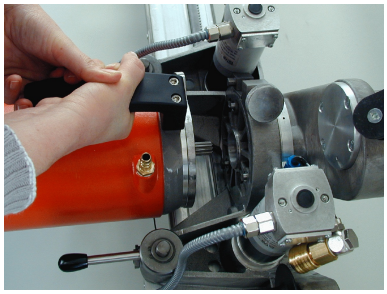


Technical Data

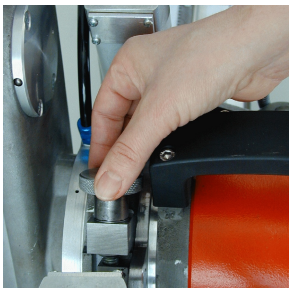
Type		**WS 75**	**WS 75H**
Rated power of the saw motor:	W	6000	11000
Output power of the saw motor:	W	4800	9000
Rated speed of the sawing spindle:	1/min	1400	1000-2000
max. saw blade diameter:	mm	750	750
max. cutting depth (saw blade Ø 75cm):	mm	320	320
feed power - longitudinal and dip feed:	N	2000	2000
Speed - longitudinal feed:	m/min	0-3	0-3
Speed - dip feed:	1/min	0-1	0-1
Weight - saw motor:	kg	17	13,5
Weight - basis without saw motor:	kg	19	19
Blade fixture		1" (25,4)	1" (25,4)
Saw flange for flush cut		TK90, 6xM8	TK90, 6xM8

My name is Frida and I am as an electric wall saw the youngest member of the WEKA family.
I am available in two versions:

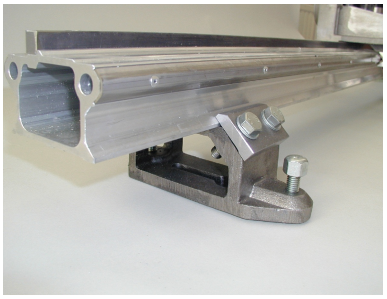
WS 75 - with a water-cooled, robust 6 kW three phase motor.
WS 75 H - with a water-cooled 11 kW high frequency motor.

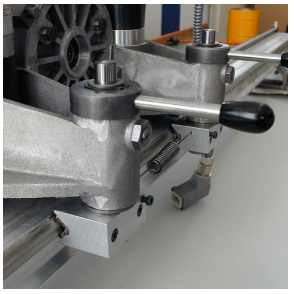


With my saw blade of 750 mm diameter I cut concrete walls and masonry up to 320 mm deep without taking care of reinforcement.



For not being too heavy for you, my motor can be disconnected from the machine basis without any tools within only a few seconds.
Now I am so light, that even weak men can take me on their arms.
My track is composed of a torsion rigid aluminum profile with taper gibs of stainless steel. I'm guiding on this track with vibration dumping sideways, composed of a special but proofed wear-resistant material compound.

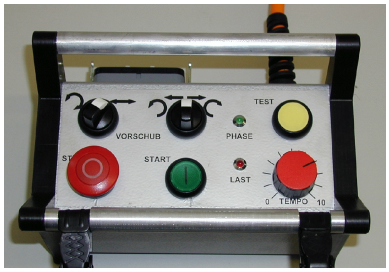




The power transmission is done by an oil lubricated gear with an integrated overload clutch in my rotation arm. An integrated safety clutch prevents in case of emergency gear and tool damages.
The output spindle is arranged very solid and nearly free from clearance between two taper roller bearings.

My feed drive are 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.



Control WS 75

A red LED is indicating an overload. Is this light disregarded, the electronic switches the saw completely off.
If the saw blade is jammed the overload clutch absorbs the appearing top load before the motor electronic shuts down the saw.
An integrated phase detector permits the start of the saw motor only if the phase direction is correct. The correct direction is indicated by a green LED.
The control box of the WS 75 can be carried by a belly belt. The control unit of the WS 75 H is put into a hand control box and can easily be operated with one hand.



Control WS 75 H

Driving Motor
My 6 kW three-phase motor as well as my 11 kW high-cycle motor are water-cooled and correspond to the degree of water protection IP 55. The cooling principle, patented by my boss, 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.
Both motors are electrically, mechanically and thermally protected against overload. This method can be seen as a total overload protection.

WS 75 H - frequency controlled driving motor
In this design I am most powerful and therefore for professionals even more attractive.
I'm supplied 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 that also corresponds to the degree of water protection IP 55.
Of course I am radio interference suppressed as advised in EN 55011-limiting value class B and can therefore work on public mains.
This is very important in order that no interferences on computers, radios or televisions arise.
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.



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