3-Speed high-frequency Diamond Core Drill HD16 / HD18



Oil-bath lubrication
Safety Clutch
Levelling device
closed, water cooled high frequency motor
waterproof protection class IP 55

Technical Data

Type		**HD16 / HD18**
Nominal power	W	3700
Output power	W	2800
Load speed	1/min	630/1400/2900
Length	mm	375
Weight	kg	6,2
Drilling Ø in concrete c.		
in drill stand	mm	20 - 150
hand held	mm	20 - 100
Tool fixture		G1/2"
Type HD1603/1803		1 1/4"
Mounting neck Ø	mm	60

My name is HD16. I was especially designed for drilling in tough environments and can be used both handheld as well as stand operated. My design is splash water proof according to protection class IP55, therefore I can be used to drill overhead. My powerful high-frequency motor with 3700W and a weight of only 6,2 kg offers an excellent power/weight ratio.

Especially following features emphasize my outstanding abilities:

High frequency drive
My small motor after all has a power of 3700 W and all this at a mains voltage of 230 V.
It is water cooled with the cooling principle which is patented by WEKA. The cooling system is thereby completely separated from the electrical part of the motor. If on very tough use of the motor my seals should fail, the cooling water will not enter into the interior of the motor, but only to the outside.

Motor control
I am controlled by a very efficient converter, the FU6 U, which is located in a small and stable aluminium box. The water-cooled frequency converter FU6 U can drive and control all devices of the ANNA series 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.


Frequency converter FU6 U

3 - speed gear
Large drilling range (see tech. data) with easy speed adjustment to each hole diameter.

Oil-bath lubrication
Optimal gear lubrication for high efficiency and durability.

Overload clutch
Protection for operator as well as for machine and tools against mechanical overloads.
An indispensable safety element for hand operated core drills.

Leveling aid
Two integrated levels enable exact horizontal and vertical working positioning.

Metal Casing
In relation to plastic cases the aluminum case of WEKA drills is mechanically and thermally more stable and durable.

WEKA and Environment
WEKA electric tools are mainly made of steel and aluminum. Plastics are only used if it is unavoidable. Sandwich material is not used. WEKA electric tools are durable. Scrap-mature machines will be taken to pieces completely and the material is separated. Therefore the machines are 90% recyclable.

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