



Vacumobil MD 160

Medium-pressure
dust extractor

for the dust extraction
of hand grinders
and workplaces

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Vacumobil MD 160. Medium-pressure dust extractor for grinding workplaces and machines

The Vacumobil MD 160 medium-pressure dust extractor is the mobile suction centre for professional extraction of hand sanding machines and workplaces. The very compact and space-saving unit can extract up to six hand sanders in parallel, generating a maximum vacuum of up to 10,000 Pascal. Despite the high resistance of the small connections, efficient suction is thus possible. The Vacumobil MD 160 is also ideal for floor cleaning (optional accessory) and can vacuum a sanding table or another machine as desired.

Maximum 10,000 Pa negative pressure

The decisive factor is the increased suction power. With a vacuum of 6,200 Pa at a volume flow of 1,447 m³/h and up to 10,000 Pa at 500 m³/h, the Vacumobil MD 160 is suitable for fine dust extraction from manual electric and pneumatic tools as well as from processing machines. In contrast to conventional industrial hoovers, the Vacumobil MD 160 can vacuum several hand-held machines at the same time. Automatic blast gates can be controlled with the optional gate valve control.

Energy-efficient and quiet

The Vacumobil MD 160 with its 5.5 kW IE3 motor is started via a frequency inverter in a motor-friendly and energy-saving manner and is continuously controlled depending on the power requirement. This ensures maximum performance with optimised energy use and protects the motor from overload. The operating noise is below 70 dB(A).

Filter medium of dust class M

The Vacumobil MD 160 is a class H3 dust extractor (residual dust content 0.1 mg/m³), i.e. specially designed for wood-based materials. With the filter material of dust class M, it is also suitable for many other dry dusts.*

* not approved for asbestos or other carcinogenic substances.



Optional accessories:

- Automatic blast gate control with machine recognition
- Connection kit for vacuum cleaner connections (picture below)
- Hoover cleaning kit with floor nozzle (picture below)

Areas of application

The Vacumobil MD 160 sucks with up to 10,000 Pa negative pressure. In the workshop or production this medium-pressure dust extractor quickly becomes indispensable companion:

- **Manual processing machines**
Extraction of dust from manual processing machines such as grinders, saws or planers
- **Machine dedusting**
Function of a normal dust extractor for processing machines
- **Flexibility in the workshop**
Perfect as a universal and mobile device for flexible use in the workshop when powerful extraction is needed at short notice.
- **Hoover clean**
With the necessary accessories, the unit can also be for cleaning floors or machines. machines. (Accessories optionally available)



The compact Vacumobil MD 160 dust extractor for manual machines and workplaces

High-quality filter material

10 m² filter surface made of high-quality filter material with test certificate dust class M (permeability <0.1 %)

Filter cleaning

Gentle cleaning of the filter bags using compressed air pulse cleaning (jet).

Frequency control

An upstream frequency converter ensures motor start-up, increases the speed and protects the 5.5 kW IE3 motor from overload.

Selector switch for bin change

Patent-pending maintenance mode for dust-free change of the dust collection bin.

PLC control

Control box with PLC control and text display.

Back pressure flap

Prevents dust from returning during offline filter regeneration.

Dust collection bin

The dust collection bin with a capacity of 115 litres can be removed from its holder with two simple hand movements.



Technical data

	Vacumobil MD 160-5,5
Power	
Motor	5,5 kW / 400 V / 50 Hz (IE 3)
Nom. volume flow (negative pressure)	1,447 m ³ /h (6,200 Pa)
Max. volume flow (negative pressure)	1,900 m ³ /h (2,000 Pa) ¹²
Max. negative pressure	appr. 10,000 Pa at ~500 m ³ /h
Maximum sound pressure level	≤ 68.5 dB(A) ¹¹
Suction connection diameter	160 mm
Filter and discharge	
Cleaning	Compressed air pulse (Jet)
Online cleaning (continuous)	Time-controlled
Compressed air consumption	approx. 40 Normlitre (NI) / pulse
Filter area	approx. 10 m ²
Dimensions and weight	
Dimensions (L x W x H)	1,916 x 915 x 1,950 mm
Weight	approx. 480 kg
Control	
Control box	PLC control
Rotational speed control	Frequency inverter

¹¹ measured according to the EU Machinery Directive subject to free field conditions with 1 m distance of 1.6 m height ¹² Measured at the interface with filter hoses exposed to beech test dust.

At a glance

- Compact design. Footprint approx. 2.0 m²
- Installation in the work area allowed (depending on type of dust)
- Low residual dust content < 0.1 mg/m³ (H3) according to TRGS 553
- 100% utilization of heat energy through air return
- Filling volume approx. 115 litres
- Continuous online filter cleaning
- Height < 2.0 m
- PLC-control system, standard with automatic switch-on and text display
- Drive efficiency class IE3
- Integrated non-return flap
- For St1 dusts no pressure relief required
- Tested filter material of dust class M (separation efficiency 99.9 %)
- Low energy consumption and high extraction capacity



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