



## Vacumobil 350

Dust extractor

11 kW (IE3)

GS/H3 certified

15 kW Powerpack Option

**HÖCKER<sup>®</sup>**  
**POLYTECHNIK**

*Always one idea ahead*

# Vacumobil 350.

## Flexible dedusting with maximum performance.

The Vacumobil 350 is the most powerful model of the popular Vacumobil series. This powerful dust extractor is perfectly suited for dust extraction from CNC processing machines or several production machines. With the Powerpack option (15 kW motor and frequency converter) this dust extractor delivers up to 3700 Pa vacuum.

It features impressive performance and compact design, an easily configurable modular system, performance and many flexible applications. The two cleaning processes (jet or vibration) in combination with the discharge systems collecting container, briquetting press or rotary valve allow the realisation of tailor-made solutions.

The drive of the Vacumobil 350 is fitted as standard with efficiency control system (IE3), thus guarantees an extremely environmentally friendly and energy-saving operation. It goes without saying that all models are tested according to GS-HO-07 and work exclusively with certified filter material. In the field of process safety, the innovative dust extractors feature a fire suppression system and an integrated explosion-proof non-return flap.<sup>(1)</sup>

<sup>(1)</sup> approved for organic dusts of dust explosion class St1 with a minimum ignition energy >10 mJ and a lower explosion limit of at least 30 g/m<sup>3</sup>



Vacumobil JZ350 with jet cleaning and rotary valve

Two Vacumobiles, VZ350 and VZ300, combined to a powerful dust extraction solution. A transport fan takes the dust to the silo.



Two Vacumobil JZ 350 dedusters in outdoor installation. The filtered air is returned to production hall to avoid head loss





Vacumobil JP350  
with jet cleaning and briquetting press



Vacumobil VT350  
with vibration cleaning and bins

## Well combined

**They are compact, powerful and flexible -  
Vacumobils are forming the optimal basis  
for many projects.**

If there is a mix of material to be extracted or space constraint - the Höcker Polytechnik project consultants develop functional and cost sensitive solutions for special tasks with the Vacumobil dedusters. Talk to us!

## Vacumobil Dedusters. Powerful. Safe. Flexible.

- Installation in the work area allowed (depending on type of dust)
- Low residual dust content  $<0.1 \text{ mg/m}^3$  (H3) acc. to TRGS 553
- 100% utilization of heat energy through air return
- Large filling capacity of 4 tons
- Online-cleaning available (supplementary charge)
- Height  $<2.6 \text{ m}$
- PLC-control system with automatic switch on
- Drive Efficiency Class IE3
- Automatic filter cleaning
- Integrated automatic fire suppression system
- Tested blowback protection integrated
- Pressure relief not required for St1 dusts
- BG-approved filter material (filtration efficiency 99.95%)
- Low energy consumption and high suction performance

## The safe deduster

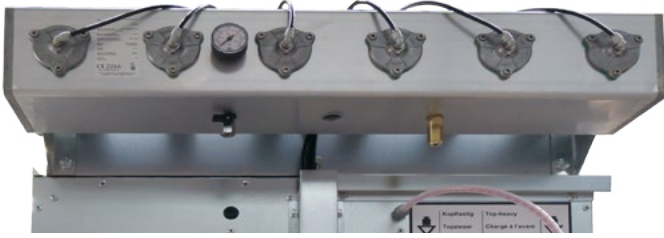
The Vacumobil is supplied ready for connection with phase change plug and can be installed in the work area without further fire protection measures thanks to the integrated fire suppression system. An FSA-tested blowback protection is integrated in the dust laden inlet, which prevents dust from escaping and ensures explosion separation.

The rotary valves of the Vacumobil JZ and VZ are pressure shock resistant and flameproof (Dekra-EXAM tested).

PLC control with text display, robust membrane keyboard and integrated automatic fire suppression system (here in the Powerpack version with frequency converter)



# Cleaning by compressed air or vibration



## Vacumobil Jx 350

For jet or compressed air pulse cleaning, a nozzle is positioned above each filter hose. A short burst of compressed air briefly inflates the filter hoses so the filter cake is loosened. The filter material is regenerated periodically or depending on the differential pressure (according to the degree of contamination of the filters).

### Properties:

- low energy requirement
- suitable for almost all materials
- constant high suction power due to low filter contamination
- cleaning can be carried out time-dependently or differential pressure-dependently
- very long service life and durability of the filter hoses
- continuous/online cleaning of the filter material without production breaks (optional)

## Vacumobil Vx 350

In the vibration process, the filter cake is shaken off the filter hose by means of a shaker motor. Mechanical cleaning is carried out after interruption of the filtration operation.

### Properties:

- discontinuous cleaning of the filter material during production breaks
- low energy requirement
- very long service life and durability of the filter hoses



# Vacumobil. Tested pressure shock resistance

Test passed. In 2010, the accredited specialist institute for explosion tests „Dekra-EXAM“ certified the pressure shock resistance of our Vacumobil dust collectors.

All relevant laws and standards (ATEX, DIN EN 16770, industrial safety regulations, VDI guidelines, regulations and rules of the employers' liability insurance association) can be easily and safely complied with.



# Technical data and options

	<b>Vacumobil Jx 350</b>		<b>Vacumobil Vx 350</b>
	Jet- or compressed air pulse cleaning of the filter material. Online cleaning optional.		Vibrating cleaning of the filter material. Cleaning during production breaks.
<b>Power</b>			
Motor	11 kW / 400 V / 50 Hz (IE 3)		
Nom. Volume Flow (V Nom)	6.927 m <sup>3</sup> /h at 20 m/s		
Max. Volume Flow (V Max)	8.600 m <sup>3</sup> /h		
Vacuum generated V Nom <sup>(2)</sup>	ca. 3.100 Pa		
Vacuum generated V Nom <sup>(3)</sup>	ca. 2.800 Pa		
Vacuum generated V Vmax <sup>(2)</sup>	ca. 2.000 Pa		
Maximum sound pressure level <sup>(4)</sup>	≤ 73 dB(A)		
Suction connection diameter	350 mm		
<b>Powerpack - the performance boost option</b>	<input type="radio"/>	further information in the last part of this brochure	
More powerful motor	15 kW / 400 V / 50 Hz (IE 2)		
Frequency converters	<input type="radio"/>	stepless power control for energy saving	
Max. Volume Flow with Powerpack	10.000 m <sup>3</sup> /h		
Vacuum generated V Nom <sup>(2)</sup> with Powerpack	3.700 Pa		
<b>Filter</b>			
Cleaning	Compressed air pulse (offline) <sup>(4)</sup>		Vibration (autom. running time addition)
Online cleaning (continuous)	<input type="radio"/>		—
Filter area	ca. 35 m <sup>2</sup>		ca. 35 m <sup>2</sup>
<b>Discharge</b>			
Collecting bins (JT/VT)	4 bins, ca. 495 Litres max.		
Dimensions / weight (JT/VT)	3.930 x 1.030 x 2.560 mm / 1.080 kg		
Rotary valve (JZ/VZ)	0,55 kW, pressure shock tested		
Briquetting press BriKStar CS3 (JP/VP)	25...50 kg/h, 3kW (space-saving integrated)		
Briquetting press BriKStar CS 4	35...75 kg/h, 4kW (integrated, chip container 1.450 x 860 mm)		
<b>Control</b>			
Switch cabinet	<input checked="" type="radio"/>	PLC control	
Automatic switch-on	<input checked="" type="radio"/>	(6 I-coils connectable)	
Runtime clock	<input checked="" type="radio"/>	integrated	
<b>Accessories</b>			
Suction connection left	<input checked="" type="radio"/>	Jx/Vx-350-L	
Suction connection right	<input type="radio"/>	Jx/Vx-350-R	
Return air connection hood	<input type="radio"/>	horizontal/vertical connection for outdoor installation	
Blow back flap	<input checked="" type="radio"/>	type-examined	
Automatic fire suppression system	<input checked="" type="radio"/>	with special extinguishing agent (optional: also for metal fires)	
Antistatic filter hoses	<input type="radio"/>	oil and moisture repellent	
Blast gate control L1, L4	<input type="radio"/>	for 1, alternatively 4 machines for automatic blast gate	
Blast gate control Z8, Z16	<input type="radio"/>	for 8, alternatively 16 machines (progr. bypass / min / max volume flow)	
Induction coil	<input type="radio"/>	suitable for L1, L4, Z8, Z16	
Emergency-Stop	<input type="radio"/>	mounted on the front side of the switch cabinet	
Ignition protection	<input type="radio"/>	up to maximum volume flow 10.000 m <sup>3</sup> /h	

● = series equipment, ○ = option, — = not available

Further configuration options available. Please contact us.

## Model names (cleanings and discharges)

<sup>(1)</sup> measured according to the EU Machinery Directive subject to free field conditions with 1 m distance of 1.6 m height in delivery status - non-impinged filter hoses  
<sup>(2)</sup> exposed to test dust acc. to. GS-HO-07  
<sup>(3)</sup> online cleaning optional (in case of explosive dust - air mixtures only permissible with further protective measures)  
<sup>(4)</sup> online cleaning optional (in case of explosive dust - air mixtures only permissible with further protective measures)

JT = Jet-cleaning / collection bins (tons)  
 VT = Vibration cleaning / collection bins (tons)  
 JP = Jet-cleaning / briquetting press  
 VP = Vibrations cleaning / briquetting press  
 JZ = Jet-cleaning / rotary valve  
 VZ = Vibration cleaning / rotary valve

# Need more power in vacuum?

## Take the 15 kW Powerpack Option!

**We combine stronger motors with frequency converters for an energy-efficient performance boost!**

Some applications or the handling special materials require more vacuum. Our Vacumobils with the Powerpack option are also equipped for this.

The more powerful 15 kW motor combined with the frequency controller generates a vacuum of up to 3,700 Pa (V Nom / 54 Hz) with minimum energy consumption.

### Applications

- for the dedusting of machines with very high inherent resistance
- optimizes energy-efficient operation of the Vacumobil deduster



## The Boost Function

**With increasing filter resistance the performance of your Vacumobil decreases.**

The boost switch below the frequency controller provides more vacuum flow and optimum dust removal results.

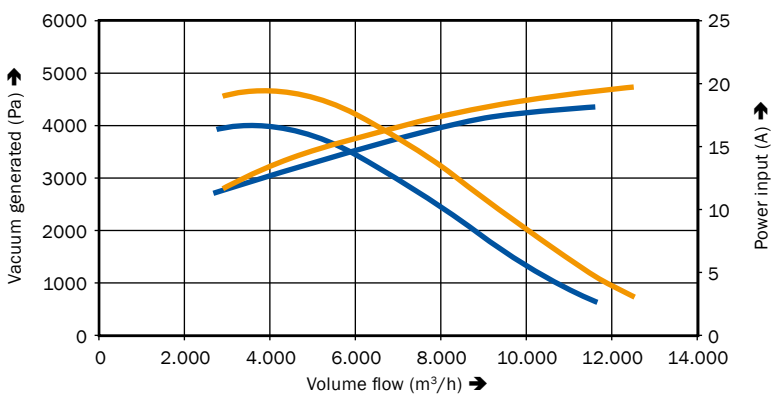
### The automated option!

The filter resistance is continuously monitored by a sensor and the optional pressure transmitter control VSR regulates the volume flow automatically.



Vacumobil JT 350 with Powerpack and 15 kW motor

## 30% more vacuum



## Quite simple...

The frequency converter gently increases the speed of the motor and provides a power boost.

**This is how the Vacumobil offers approx. 30% more vacuum.**

- Vacumobil JT 350 with Powerpack and 15 kW motor
- Vacumobil JT 350 without Powerpack

The measurement was performed in impinged and purified state according to GS-HO-07.



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