

Industrialfans

Clean-air fans
Dust fans
Transport fans
Cutting and chopper fans

HÖCKER®
POLYTECHNIK

Always one idea ahead

Fans - 360° performance

The fans supplied by HÖCKER POLYTECHNIK GmbH are the smooth-running, reliable and energy-efficient core element of your air-conditioning system. Every fan is specifically designed for its area of operation or application, thus achieving the best possible efficiency. The power consumption of your system is also lowered through the use of energy-efficient motors and frequency converters.



Energy-efficient operation

High efficiencies save energy and reduce costs. The HÖCKER POLYTECHNIK engineers develop fans at peak efficiency tailored to your application. Energy-efficient motors and frequency converters additionally increase the efficiency.



Reliable endurance runner

Over the past 50 years the HÖCKER POLYTECHNIK fans were continuously developed and are “proving their mettle” in daily continuous operation. They are the solid and low-maintenance core element of your ventilation or extraction.



Retrofit option

Replacing your old fans with modern, energy-efficient fans lowers energy costs significantly and also minimises sound and noise emissions. With the constantly rising energy prices such replacements can quickly pay for themselves.

Highest efficiency for your application

Only the specialists perform the best. Whether you want to supply clean air, extract used air and dust or need to transport material waste or long edge trims to be shredded, HÖCKER POLYTECHNIK designs and manufactures the fans best suited for the requirements of your application. Experienced HÖCKER installation teams install and convert your new ventilation systems on request and as required.

Powerful extraction

High-performance extraction fans work behind the filter and provide up to 84% efficiency for optimum extraction at minimum energy consumption.

Power consumption (max): up to 90 kW and more



Conveying material

Transport fans for the pneumatic transport of wood chips, dust, paper, tissue paper, cardboard, corrugated cardboard and film.

Power consumption (max): up to 37 kW



Waste material shredding

Edge trim, cutting and chopper fans simplify material handling. They are perfectly suited for use in the paper, corrugated board and printing industry and wherever long strips or bulky materials need to be shredded.

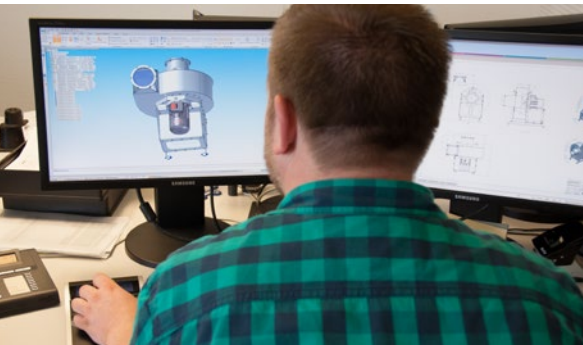
Power consumption (max): up to 22 kW and more



Develop, build, inspect and install

Using CAD-supported software the fans are designed in the HÖCKER development centre, thus creating the perfect database for CNC manufacturing. The fans are then subjected to follow extensive tests after manufacture and assembly before the fan is ready for its many years of service.

On request, the fan is installed and commissioned by one of the experienced HÖCKER installation teams.



Development with Solid Edge



Production with modern machinery



Quality and performance testing



Transport fan in use

The right power for your application

The perfect fan reliably does its job while consuming as little energy as possible. The experienced fan experts from HÖCKER POLYTECHNIK are familiar with your industry and know how advanced fan technology can be integrated in your operations.

Your new fan is specifically designed for individual application. This specialisation naturally allows it to work far more efficient than any off-the-shelf product.

Talk to us – we will find the right solution for you!



And by the way...

The correct fans, properly combined, often perform better than energy-hungry central solutions.

We would like to assist you in developing your individual extraction and transport concept.



Every kilowatt less is a gain for you

Fans are workhorses in continuous use; sometimes, they operate around the clock all year round. While your fan does its job, the technical evolution in motor and fan technology continues on its path to the next generation. Modern fans bring the required performance, but consume much less power. The incorporation of a frequency controller reinforces the savings effect even more.

Example calculation:

A fan working on the raw-air side with 30 kW power consumption has been supporting production for 24 hours a day, 5 days a week. It will be replaced with a highly efficient 22kW HÖCKER clean air fan with optimum efficiency.

$8 \text{ kW} * 24 \text{ hours} * 5 \text{ days} * 50 \text{ weeks} * 0.17 \text{ EUR electricity costs} = \mathbf{8,160 \text{ EUR saving per year}}$

You can recoup your investment in new ventilation technology within one year. When using a frequency controller, the power consumption in normal operation with a fluctuating workload is reduced additionally. If the fan starts up several times a day, a frequency converter minimises the consumption peaks, bringing about a considerable reduction in the costs of the motor starting up.

Fans - made by HÖCKER POLYTECHNIK

SERIES	DER	DVR	DVR2	KR	DTS	
FAN DATA						
Application	extraction	extraction	extraction	extraction	transportation	
Clean air	●	●	●	●	-	
Dust	-	-	-	-	●	
Chips	-	-	-	-	-	
Paper shreds	-	-	-	-	-	
Film waste	-	-	-	-	-	
Corrugated board shreds	-	-	-	-	-	
Edge trims, paper	-	-	-	-	-	
Edge trims, film	-	-	-	-	-	
Edge trims, corrug. board	-	-	-	-	-	
Installation	horiz. in the filter	freely positionable	freely positionable	freely positionable	freely positionable	
Motor mounting	-	on the side	on the side	on the side / top	on the side	
Drive	direct	direct	direct	V-belt	direct	
Impeller design	closed	closed	closed	closed	closed	
Suction nozzles	200 - 500 mm	200 - 500 mm	300 - 900 mm	500 - 800 mm	220 - 700 mm	
Item	concentric	concentric	concentric	concentric	concentric	
with anti-spark lining	●	●	●	●	●	
with flange	●	●	●	●	●	
Pressure port	variable	variabel	variabel	variabel	variabel	
with non-return valve	●	-	-	-	-	
with flange	●	●	●	●	●	
MOTOR DATA						
Power	5,5 - 37 kW	5,5 - 37 kW	2,2 - 75 kW	22 - 90 kW	3 - 37 kW	
Motor speed, 2-pole	3000 min ⁻¹	3000 min ⁻¹	3000 min ⁻¹	3000 min ⁻¹	3000 min ⁻¹	
Motor speed, 4-pole	-	-	1500 min ⁻¹	1500 min ⁻¹	1500 min ⁻¹	
Voltage	400V / 690V*	400V / 690V*	400V / 690V*	400V / 690V*	400V / 690V*	
Frequency	50 Hz*	50 Hz*	50 Hz*	50 Hz*	50 Hz*	
IE2	○	○	○	○	○	
IE3	●	●	●	●	●	
IE4	○	○	○	○	○	
IEC compliant	●	●	●	●	●	
PTC thermistor sensor	●	●	○	○	○	
Ex-protection, zone 22	○	○	○	○	○	
OPTIONAL ACCESSORIES						
Duct silencer	○	○	○	○	○	
Sound insulation	○	○	○	○	○	

The range at a glance

	DTO	KT	TSV	ZK/HZK	MSV	RSV	WRK
	transportation	transportation	transportation	transportation	cutting	tearing	tearing
	-	-	-	-	-	-	-
	●	●	-	-	-	-	-
	●	●	-	-	-	-	-
	-	-	●	●	-	-	-
	-	-	●	●	-	-	-
	-	-	-	●	-	-	●
	-	-	-	-	●	●	-
	-	-	-	-	●	-	-
	-	-	-	-	-	-	●
	freely positionable	freely positionable	freely positionable	freely positionable	freely positionable	freely positionable	freely positionable
	on the side	on the side / top	on the side	on the side / top	on the side	on the side	on the side
	direct	V-belt	direct	V-belt	direct	direct	V-belt
	open	open	open	open	open, with blade	open	open
	140 - 450 mm	200 - 400 mm	120 - 300 mm	200 - 800 mm	120 - 300mm	120 - 300mm	200 - 300 mm
	concentric	concentric	concentric	concentric	eccentric	eccentric	concentric
	-	-	-	-	-	-	-
	●	●	●	●	●	●	●
	variabel	as suction nozzles	as suction nozzles	as suction nozzles	as suction nozzles	as suction nozzles	280 mm
	-	-	-	-	-	-	-
	●	●	●	●	●	●	●
	3 - 30 kW	3 - 30 kW	1,5 - 11 kW	5,5 - 75 kW	1,5 - 11 kW	1,5 - 11 kW	15 - 22 kW
	3000 min ⁻¹	3000 min ⁻¹	3000 min ⁻¹	3000 min ⁻¹	3000 min ⁻¹	3000 min ⁻¹	3000 min ⁻¹
	1500 min ⁻¹	1500 min ⁻¹	-	1500 min ⁻¹	-	-	-
	400V / 690V*	400V / 690V*	400V / 690V*	400V / 690V*	400V / 690V*	400V / 690V*	400V / 690V*
	50 Hz*	50 Hz*	50 Hz*	50 Hz*	50 Hz*	50 Hz*	50 Hz*
	○	○	○	○	○	○	○
	●	●	●	●	●	●	●
	○	○	○	○	○	○	○
	●	●	●	●	●	●	●
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○
	○	○	○	○	○	○	○

* other voltages and frequencies on request

● standard
○ optional
- not available



The retrofit option **reduces your energy costs.**

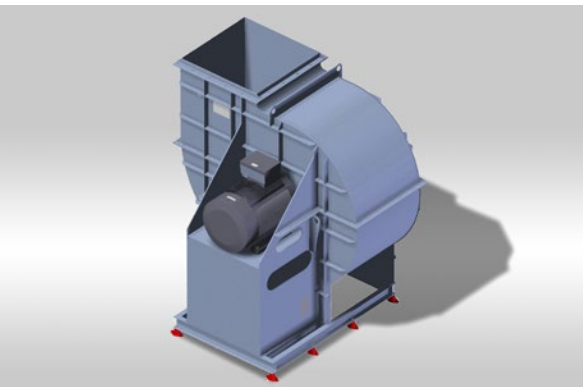
Modern fans require less power than old outdated fans and perform better. Of course, it is possible to quickly calculate how long it will take for a new fan to pay for itself. With each kW less power consumption, you reduce your electricity costs by more than 2,000 EUR per year (24/7 operation, 17ct/kWh).

Your investment in new technology will pay off within a very short time.



Outdated fans

Your old fan has done a good job for many years. Your new fan will do the same job as perfectly and save energy. The range of applications of your fan is analysed, the impeller optimised with paddles and built in the same design as the replacement fan.



Easy replacement

Your new fan is specifically designed for its future application and is easily integrated into your system. Naturally, experienced HÖCKER POLYTECHNIK assembly teams also take care of the conversion.



Benefit daily

Your new fan not only consumes less power, it also reduces the noise emissions and increases the reliability of your operation. Replacing it is worth the investment.