



PLASTICS INDUSTRY

COMPLETELY NEW INSIGHTS
AND PERSPECTIVES:

**GRANULATING,
DRYING, CONVEYING,
COOLING WITH AIR**

Elektor
airsystems gmbh





MUCH MORE THAN JUST VENTILATION TECHNOLOGY



For over 90 years, Elektor has stood for first-class products and innovative ideas when it comes to the efficient use of air as an operating medium for industrial processes. Our goal is to cooperate with the customer to achieve intelligent solutions that are functional, economically efficient and reliable.

To this end, we offer a range of radial fans, side channel blowers and axial fans that are unmatched by any other company.

This enormous portfolio of products and services are the logical consequence of our firm commitment to providing comprehensive solutions from a single source. In the event that specific requirements cannot be met from the Elektor standard range, we can implement special solutions that are tailored to the customer's requirements.



German quality and international solutions.

At our three sites, we manufacture to strict standards, thus creating the basis for products of exceptional quality. We are based in Germany and we understand what "Made in Germany" means – and we operate accordingly worldwide. With companies in China, The Netherlands, Austria and Poland as well as 25 representations worldwide, Elektor is very well positioned internationally.



The Elektor company headquarters in Ostfildern near Stuttgart

Our head office is much more than just the main management and administrative office. The Elektor company headquarters can also be described as a centre of expertise for research and development. The majority of our development and design engineers are based here, where they have access to modern test benches and a large ventilation test lab.

Production centre in Waghäusel

This facility manufactures cast aluminium blowers, stainless steel and steel blowers as well as side channel blowers.

The company's motor construction activities are also based here. More than 50,000 units of exceptional quality leave this production site every year.

The production centre at Chorzów/Poland

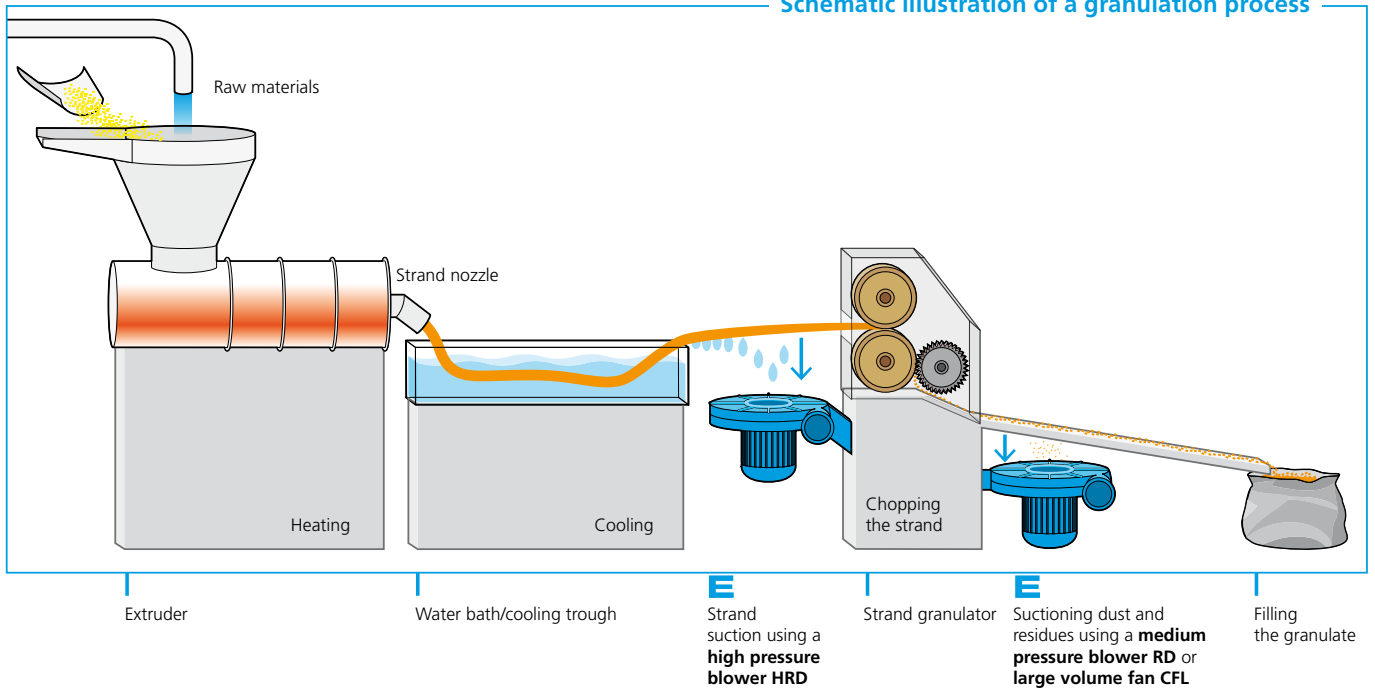
Large-volume steel fans with impeller diameters of up to 2.5 m have been manufactured here in a modern plant since 2008 – naturally in accordance with Elektor quality standards. Considerably in excess of 1000 fans are produced here every year.

Above: Elektor company headquarters, Bottom left: Production in Waghäusel; bottom right: The production centre in Chorzów

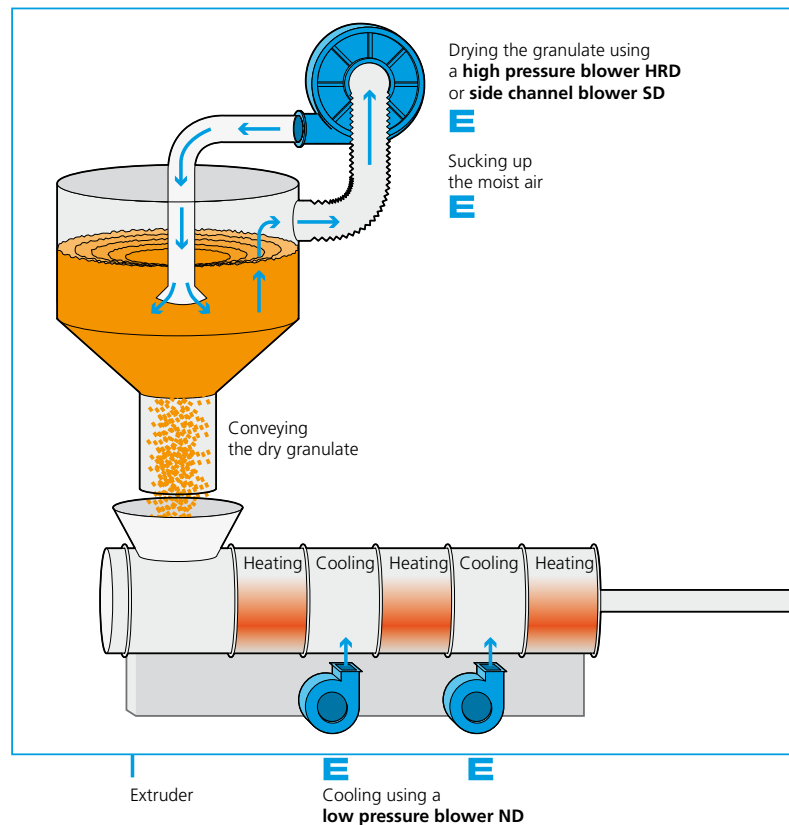


AN INNOVATIVE PARTNER TO THE PLASTICS INDUSTRY

Schematic illustration of a granulation process



Granulate dryer



ND
Low pressure blower
Up to 95 m³/min and 2.200 Pa



SD
Side channel blower
Up to 19 m³/min and 410 mbar





From the granulate to the end product

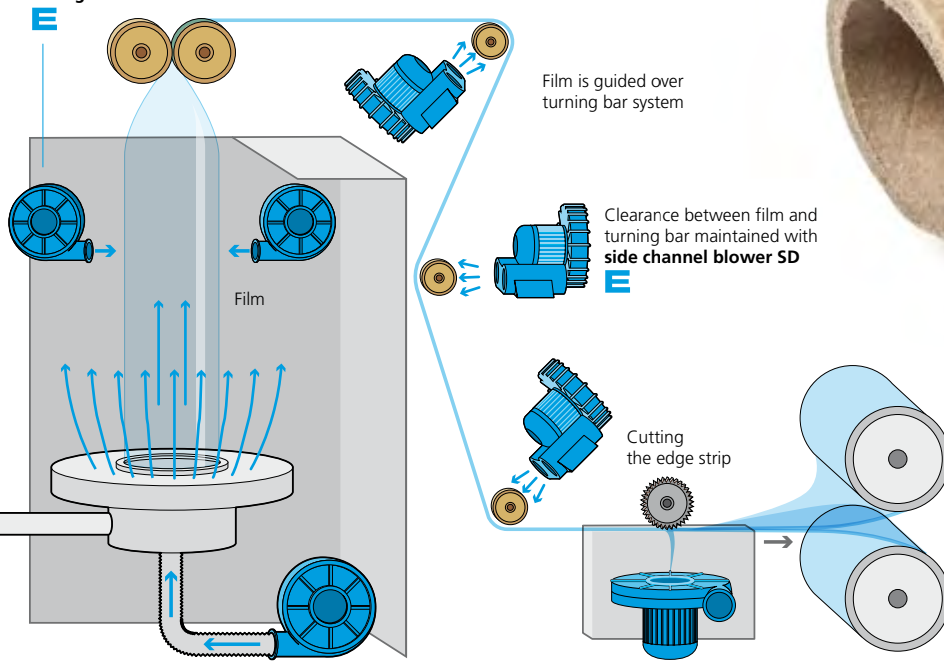
Whether there is raw material to handle or the final product is only for functional purposes or it is important to manufacture elegant plastic components – Elektor supports engineers and designers competently and reliable. Conveying, drying, transporting, mixing, cooling, vacuuming and much more – Air can be used in an incredible variety.

Where air is an option, the conversation is worth with the Elektor experts.



Schematic production process for blown films

Cooling the film using a **medium pressure blower RD** or **large volume fan CFL/CFM**



Blown film machine

Blowing the film using a **medium pressure blower RD** or **large volume fan CFL/CFM**

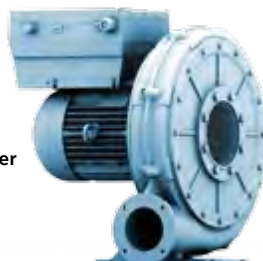
Edge strip suction using a **high pressure blower HRD**

Rolling up the film

RD Medium pressure blower
Up to 142 m³/min and 10.600 Pa



HRD-FU/FUK High pressure blower
Frequency converter
Up to 100 m³/min and 17.300 Pa



CFL Large volume fan
Up to 400.000 m³/h (6.700 m³/min) and 8.000 Pa





SUCCESSFUL TOGETHER – YOUR EXPERIENCED PLANT MANUFACTURING PARTNER

Application example: Koch-Technik relies on Elektor.

Our high level of advisory expertise and many years of experience of all processes in the plastics industry are key factors for highly specialised plant manufacturers. The design principle employed by all Elektor products allows for straightforward and safe integration in plants and processes. Plastic technology is extremely diverse and is subject to short development cycles.

Modern plants must be designed to meet requirements and to offer maximum efficiency in order to strike a balance between quality and economic efficiency.

Werner Koch Maschinenteknik GmbH, based in Ispringen, Germany, has used fans and side channel blowers by Elektor for many years. The company is one of the leading full-service providers of peripheral systems for processing plastics.

In particular, the granulate dryers by Koch-Technik enjoy a first-class reputation worldwide. Reliable and energy-efficient operation as well as high quality set the Koch-Technik systems apart. In keeping with this reputation, only parts and components that can be relied on to meet these requirements are used. For this reason, Elektor has been the blower partner of choice for Koch-Technik for many years.



The heart of a Koch granulate dryer: the drying system

Perfectly designed for the granulate dryers by Koch-Technik.

The dryers manufactured by Koch-Technik operate at very high temperature ranges. This subjects the components fitted to high thermal loads in continuous operation. Consequently, the fans must be suitably robust. For this reason, Koch Technik relies on blowers and side channel blowers by Elektor because all of the units used operate reliably, economically and with low levels of vibration and noise.

To provide for optimum control, the Elektor blowers are equipped with frequency converters. As a result, the units can easily be adapted to different voltage supply standards overseas.

At www.plastic.elektor.com you will find a detailed report on the cooperation between Werner Koch Maschinentechnik and Elektor airsystems for downloading.



Engineers and technicians from Koch-Technik rely on blowers from Elektor



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