



+ 10,000
machines supplied



30
Countries





More than
70 years
of tradition





POWER ENGINEERING

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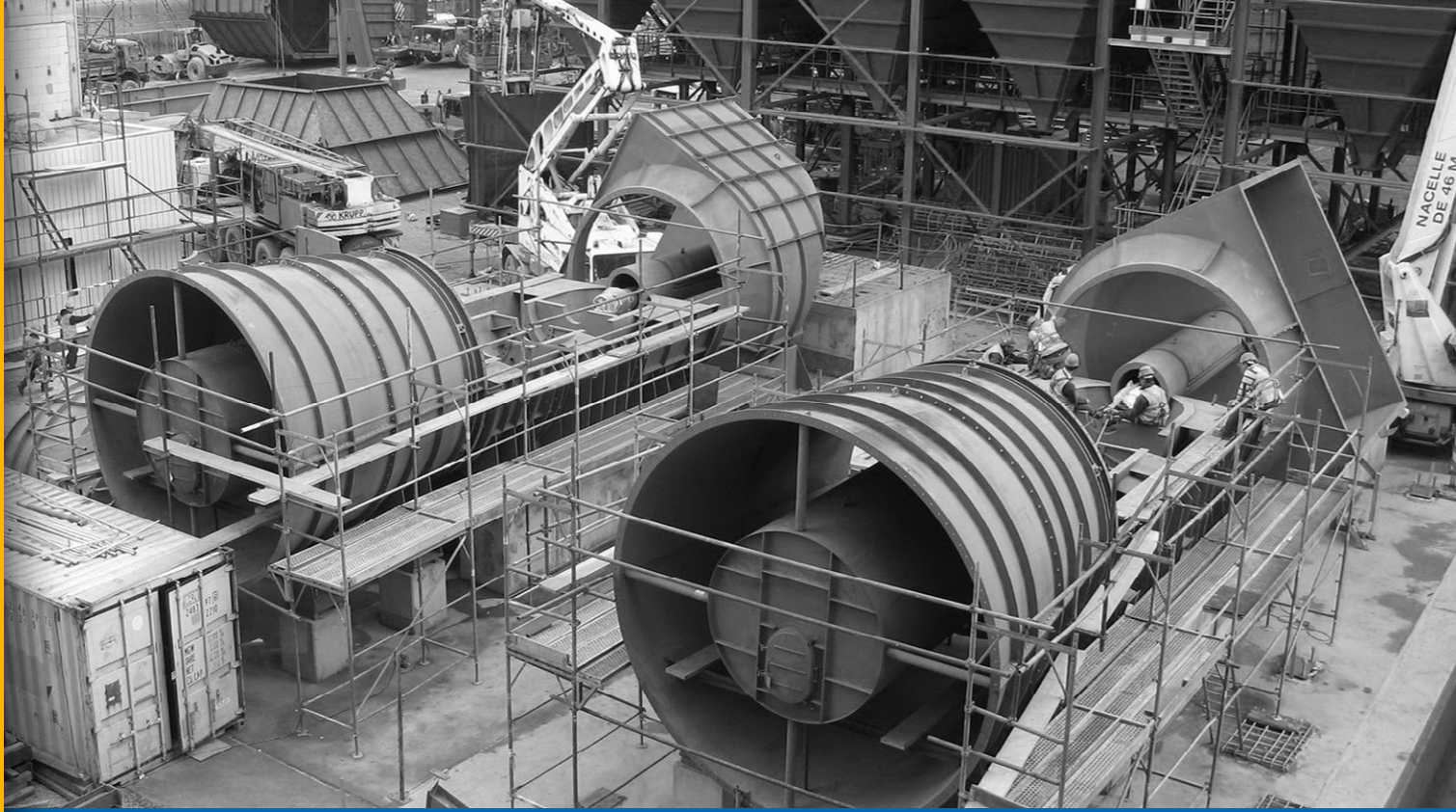
 www.zvvz.cz



ZVVZ MACHINERY
Member of ZVVZ GROUP



ZVVZ MACHINERY
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In the case of a conventional project design of a power plant, long-time proven, cost-effective, low-maintenance and reliable Axial mixed flow fans, whose production and development has the longest tradition in ZVVZ, can be advantageously used.



ZVVZ FANS ARE PART OF MANY TECHNOLOGIES OF COMBUSTION PROCESSES OF POWER PLANTS, HEATING PLANTS AND CITY BOILER ROOMS

ALL OUR STANDARD AXIAL AND RADIAL-FLOW FANS CAN BE USED IN THE POWER INDUSTRY. MOST OF THE SUPPLIED FANS ARE PROJECTED AND THEIR DESIGN IS ADAPTED DIRECTLY TO THE REQUIREMENTS OF A PARTICULAR PROJECT.

Modern project design of the power plant assumes the use of **axial overpressure fans** whose air power is **regulated aerodynamically** by changing the angle of rotor blades setting while the fan is running. This ensures the operation of fans in low energy consumption areas. This type of regulation is particularly suitable in plants with a large variation in the slope of the resistance characteristic of the HVAC system. ZVVZ developed this type of fans with the onset of new trends in the energy sector during the 1980s. Thanks to years of experience in the operation of these fans and the development of new blade stages, our fans are fitted with a reliable swivel mechanism and a blade stage optimally meeting the air conditioning requirements of each project.



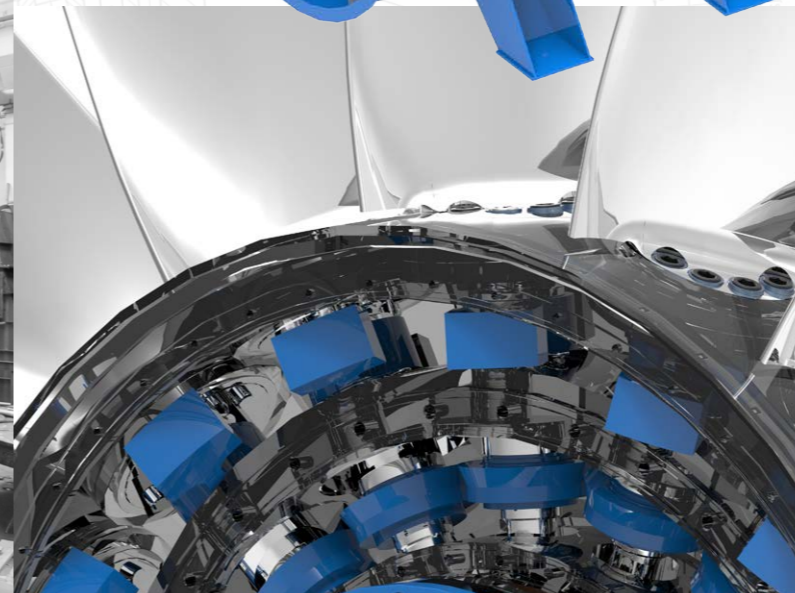
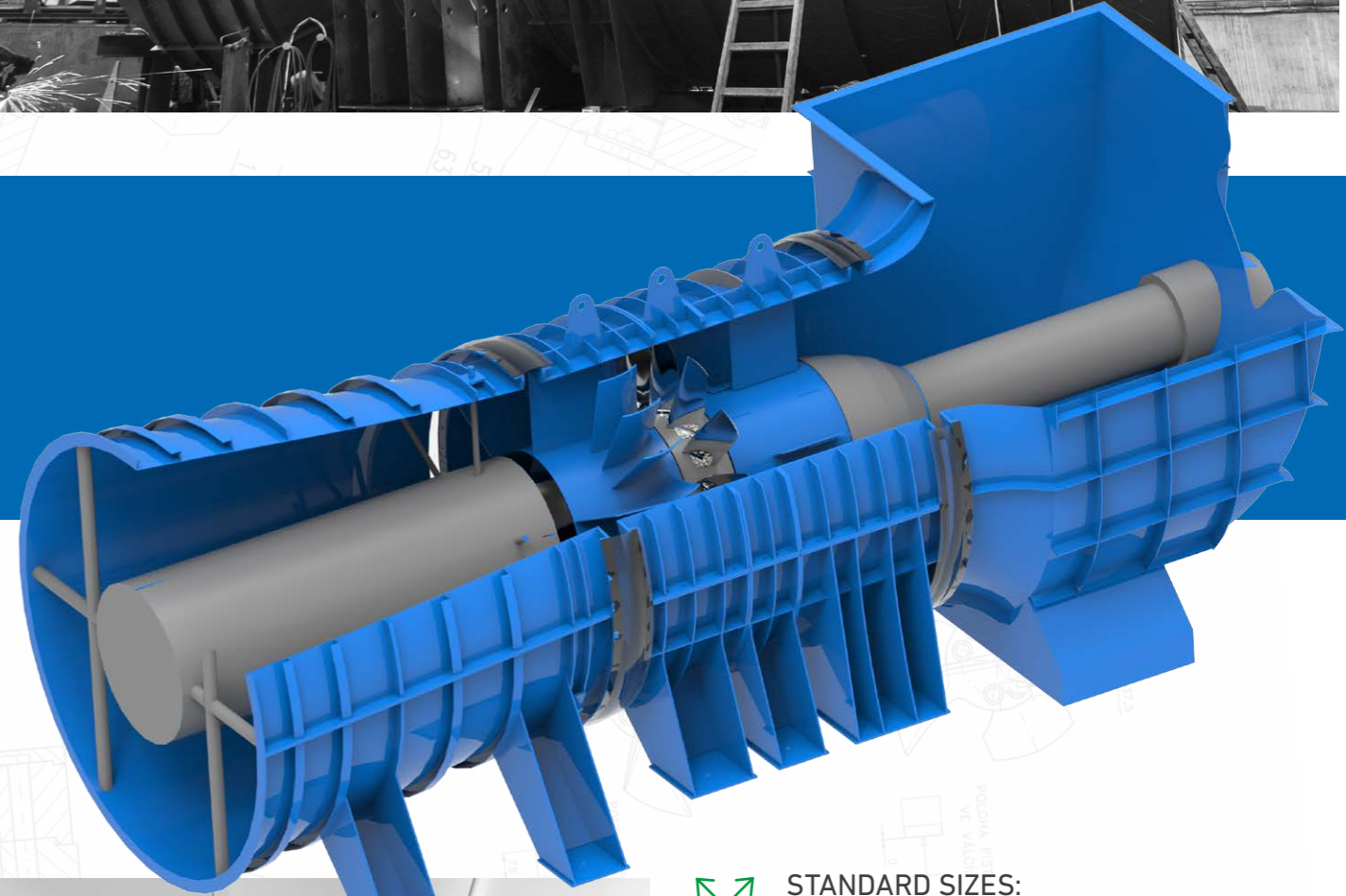
As the purchase price of the frequency converters decreases, the number of implementations and deliveries of **speed-controlled fans**, with the regulation of the performance parameters by changing the speed of the electric motor and the impeller, increases. This regulation is applicable to all types of fans offered. This type of regulation is particularly suitable in plants with a small variation in the slope of the resistance characteristic of the HVAC system.





AXIAL OVERPRESSURE FANS

THE OPERATING CHARACTERISTICS OF THE ZVVZ OVERPRESSURE FANS REPRESENT A HUGE RANGE OF AIR POWER AND ARE THUS ABLE, WITH HIGH EFFICIENCY, TO MEET THE FLEXIBLE DEMANDS OF MODERN POWER PLANT TECHNOLOGY.

- › Extensive work area of high efficiency
- › Reliable operation even at low power
- › Aerodynamic regulation by rotating the rotor blades during operation
- › Possibility to fan power regulation aerodynamically or using FC
- › Alternative materials of rotor blades



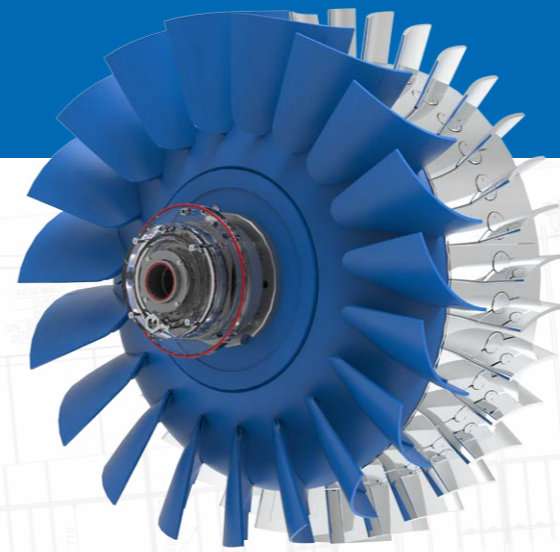
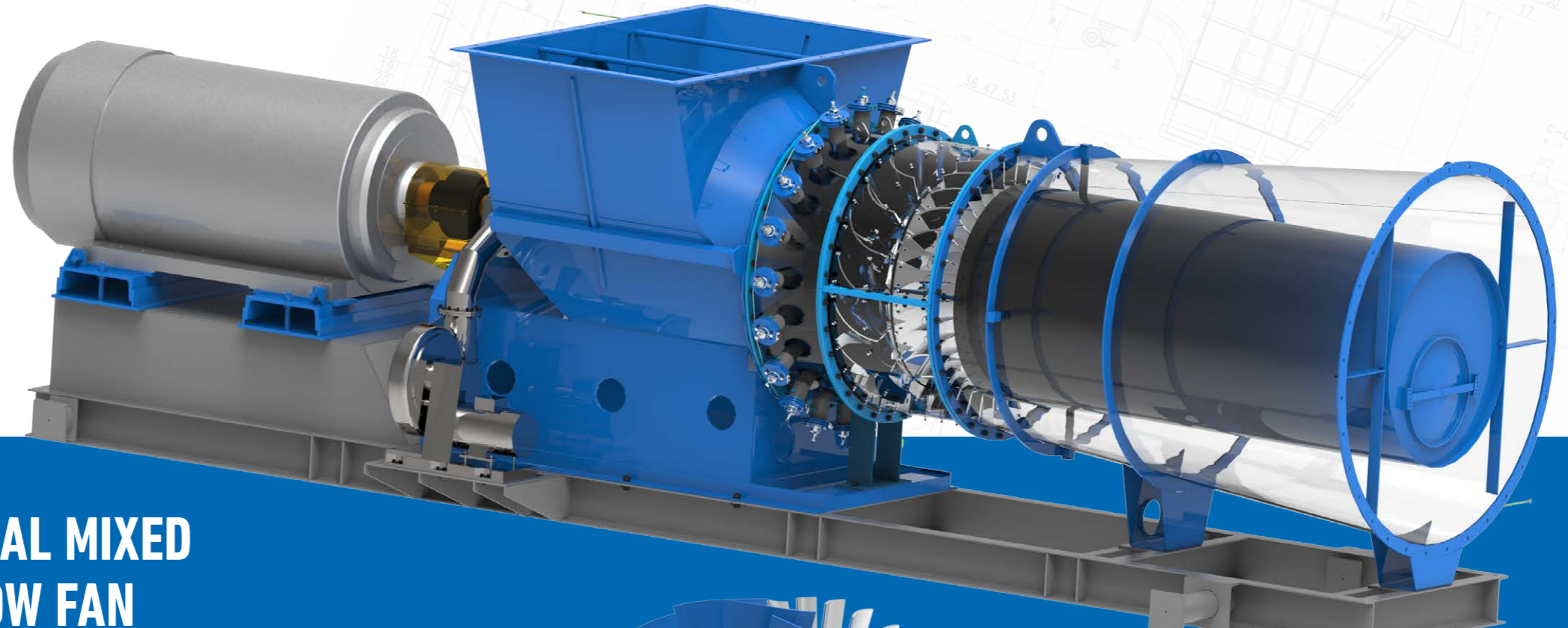
- 
STANDARD SIZES:
 2,000 to 5,000 mm or according to the needs of the project
- 
STANDARD TEMPERATURE OF TRANSPORTED AIR MASS
 up to +200°C
- 
AERODYNAMIC REGULATION DURING THE OPERATION



AXIAL MIXED FLOW FAN

WITH THEIR OPERATING CHARACTERISTICS, THESE FANS ARE PARTICULARLY SUITABLE FOR POWER PLANTS WITH AN EMPHASIS ON OPERATING ECONOMY.

- › Huge air power, high efficiency
- › High reliability
- › Low maintenance
- › Low purchase costs
- › Regulation of fan power is possible aerodynamically or using FC



STANDARD SIZES:
710 to 4,500 mm



STANDARD TEMPERATURE
OF TRANSPORTED AIR MASS
up to +250°C



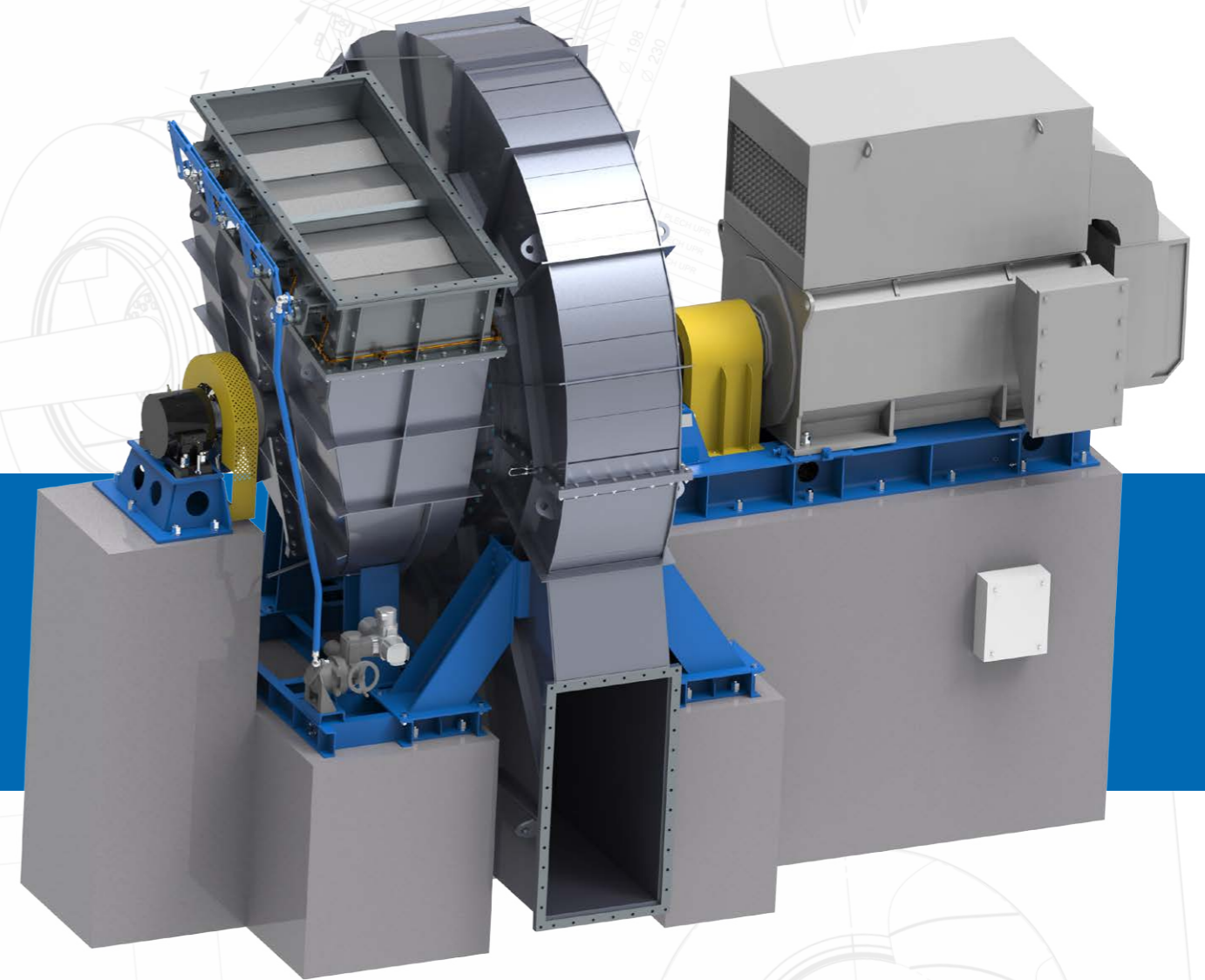
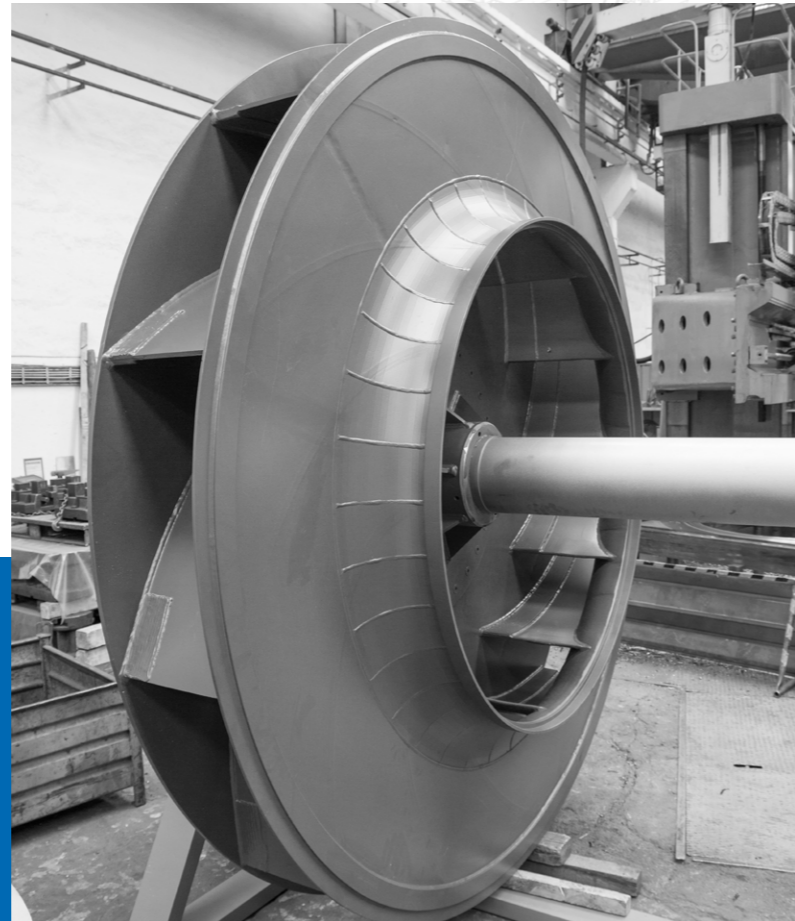
MAINTENANCE-FREE



EXPLOSION-PROOF DESIGN



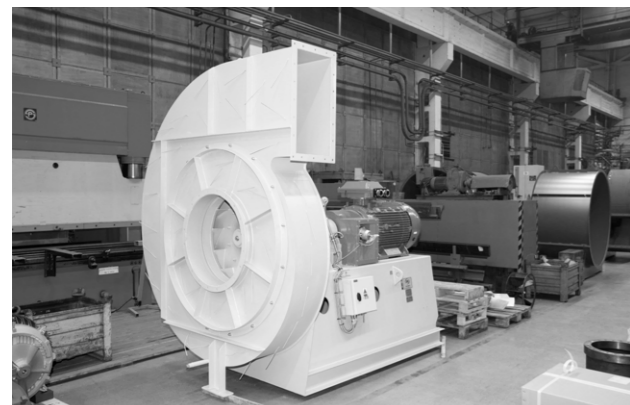
AERODYNAMIC REGULATION



HIGH-PRESSURE RADIAL FANS

IF LESS FLOW IS REQUIRED AT HIGH RESISTANCE IN THE HVAC SYSTEM, RADIAL-FLOW FANS ARE A RELIABLE AND EFFICIENT SOLUTION. THEIR RESISTANCE TO FAILURES AND AGGRESSIVE ABRASIVE AIR MASS OF HIGH TEMPERATURES MAKE THEM AN IDEAL SOLUTION FOR EG. FLUE GAS RECIRCULATION.

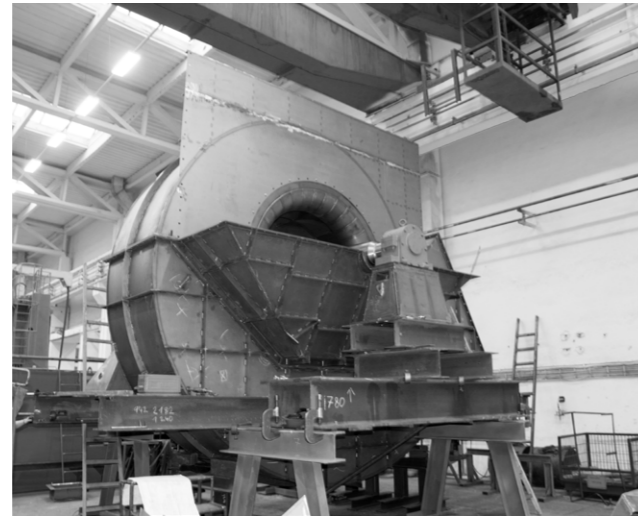
- › High working pressure
- › Resistance to working medium
- › Operating reliability
- › Easy aerodynamic regulation or FC
- › High efficiency



- STANDARD SIZES:
530 to 3,150 mm
- TEMPERATURE OF TRANSPORTED AIR MASS
up to +480 °C
- MAINTENANCE-FREE
- EXPLOSION-PROOF DESIGN
- AERODYNAMIC REGULATION



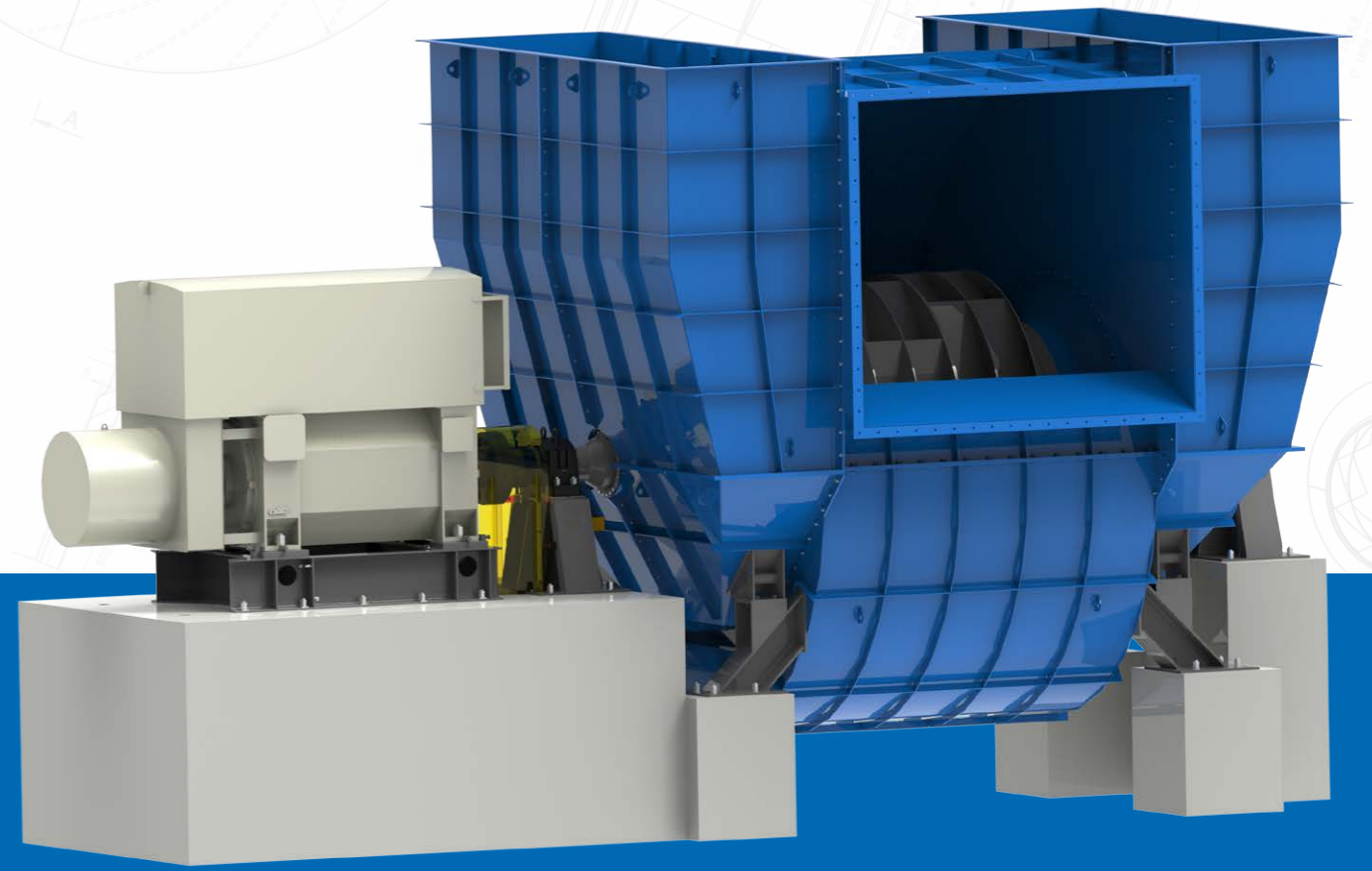
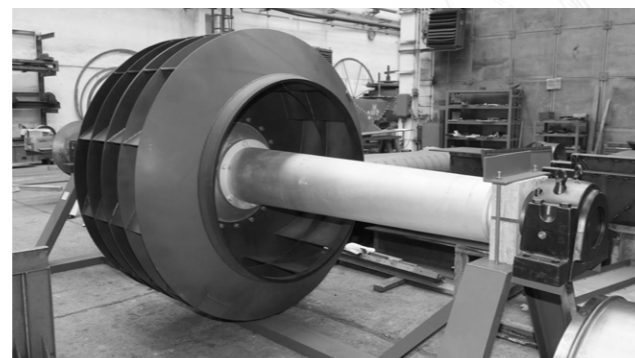
1	BRUUS L1C	180 50	DR N 801	0250,01		1,40 kg	
2	PODLIŠKA MB	1800 1900	DR N 801	0250,02	A-1-000208-A	4,09 kg	
3	ŠATICE KM	244 0530/02	DR N 801	0250,03	F-1-0001555-B	2023,77 kg	
4	TRUBKA DOP	04720/002		0250,04	F-1-0001555-B		1,00 kg



MEDIUM-PRESSURE RADIAL FANS

THESE FANS ARE A CONNECTING LINK BETWEEN RADIAL HIGH-PRESSURE FANS AND AXIAL FANS. MEDIUM-PRESSURE RADIAL FANS ARE ABLE TO PROVIDE RELATIVELY HIGH PRESSURE AT RELATIVELY HIGH FLOW RATES WITH HIGH EFFICIENCY.

- › Resistance to working medium
- › Operating reliability
- › Easy aerodynamic regulation or use FC
- › High efficiency



- STANDARD SIZES:
530 to 3,150 mm
- TEMPERATURE
OF TRANSPORTED AIR MASS
up to +480 °C
- MAINTENANCE-FREE
- EXPLOSION-PROOF DESIGN
- AERODYNAMIC REGULATION