CBI® GROUP

Product portfolio

Who we are

CBI Group, headquartered in Monza, boasts a storied legacy within the industry. Established in 1963, Industrie CBI S.p.A. initially focused on producing electromechanical components. Over time, the company diversified its capabilities, specializing in the creation, production, and distribution of top-tier industrial ventilation solutions.

Presently, the CBI Group stands out as a frontrunner in the industrial ventilation sector, thanks to its extensive history, technical acumen, and unwavering commitment to customer satisfaction. Through ongoing investments in cutting-edge research and technology, the company consistently delivers innovative solutions tailored to meet the evolving demands of its clientele.

Our values

Our work is built upon four crucial pillars that ensure we are prepared to tackle any challenge that comes our way:

Flexibility and reliability

Ethics in business

Continuous innovation

People first

Highlights

- **5** Productions Plant
- **6** Branches worldwide
- **60** Years of Operation
- **200** Number of heavy-duty fans manufactured annually
- **23k** Number of fans manufactured annually

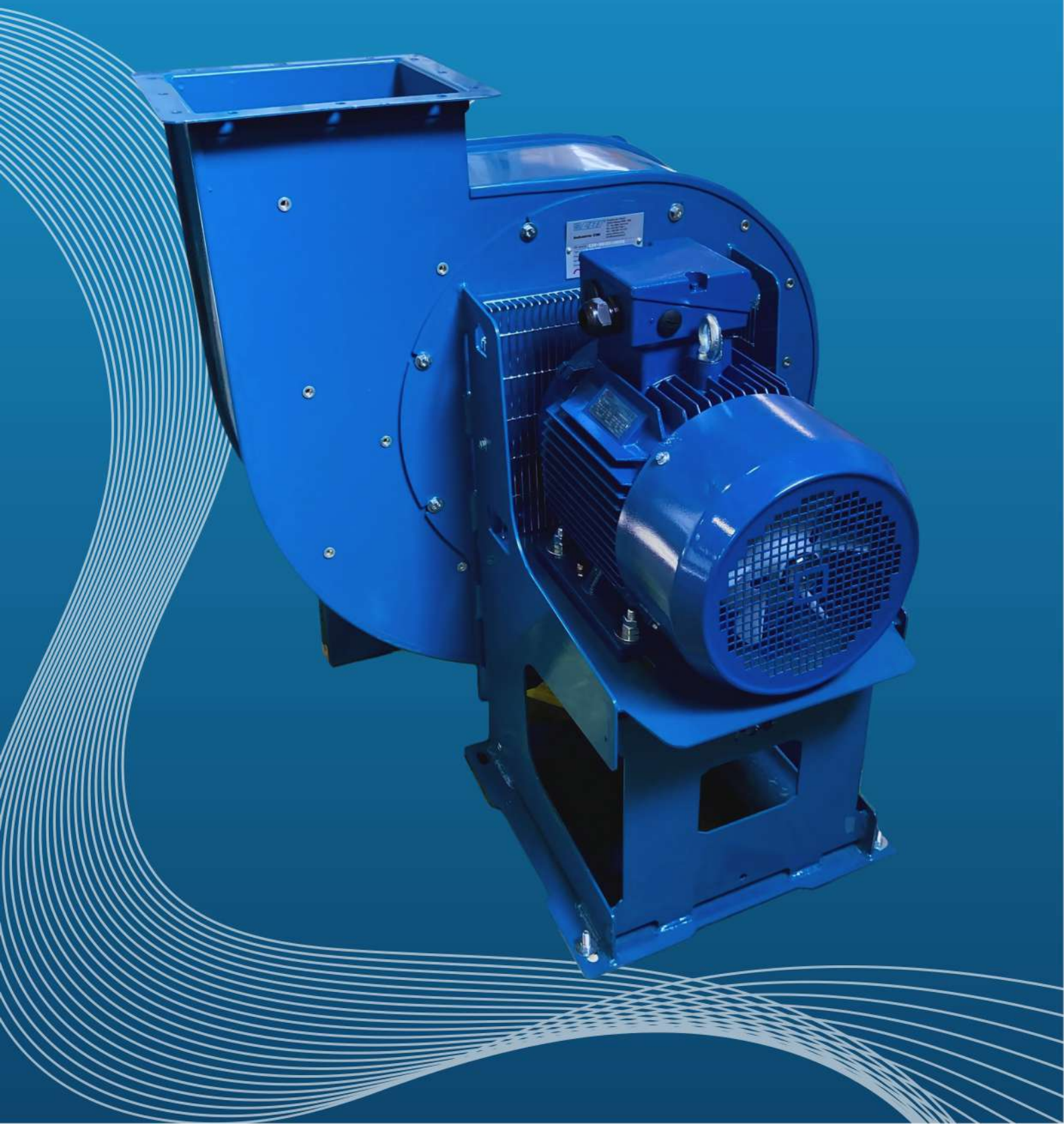
Certification

Quality remains a consistent and crucial goal for CBI Group. The executives, staff, and all employees are dedicated to ongoing enhancements and oversight of the company's operations through regular training, specialized and certified personnel, products, and services.

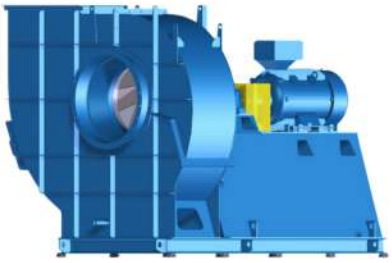
- All production facilities operate under the Certified Quality System: ISO 9001 and ISO 14001.
- For equipment designed for use in explosive environments, we can manufacture products and machinery that adhere to ATEX guidelines.

CBI® GROUP

Centrifugal fan



Ch Series

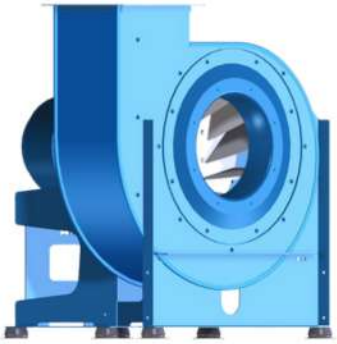


Airfoil or backwardly inclined curved and backwardly inclined flat blade.

Available in 19 sizes with **impeller diameters** up to **2.450 mm.**

Flow rate (max): 450.000 m3/h
Pressure (max): 6.500 Pa
Temperature: up to 300°C

K Series

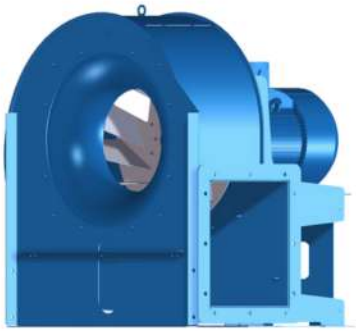


Backwardly inclined flat or radial blade (open or closed).

Available in 18 sizes with **impeller diameters** up to **2.200 mm**.

Flow rate (max): 370.000 m3/h
Pressure (max): 9.000 Pa
Temperature: up to 300°C

Z Series

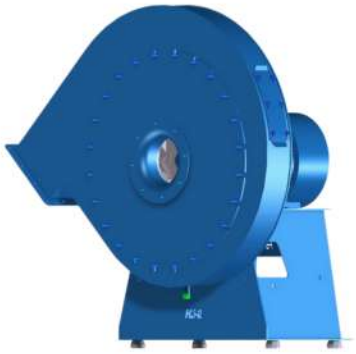


Backwardly inclined flat blade.

Available in 18 sizes with **impeller diameters** up to **2.200 mm.**

Flow rate (max): 400.000 m3/h
Pressure (max): 9.500 Pa
Temperature: up to 300°C

H Series

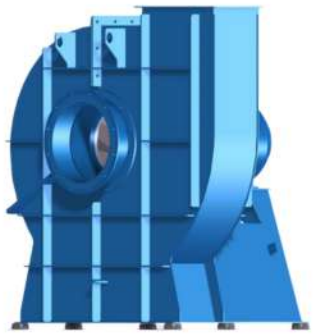


Backwardly inclined curved or radial blade (open or closed).

Available in 11 sizes with **impeller diameters** up to **1.100 mm.**

Flow rate (max): 10.000 m3/h
Pressure (max): 15.000 Pa
Temperature: up to 300°C

S Series

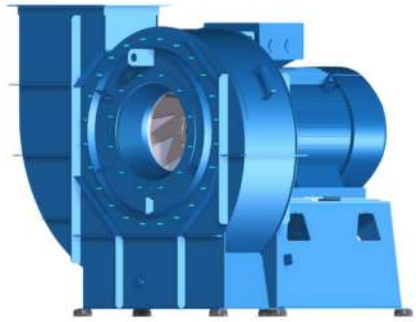


Backwardly inclined flat blade.

Available in 14 sizes with **impeller diameters** up to **2.240 mm**.

Flow rate (max): 200.000m3/h
Pressure (max): 25.000 Pa
Temperature: up to 300°C

M Series

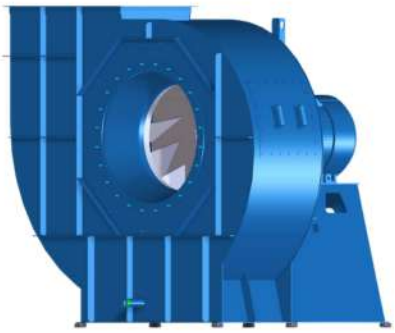


Backwardly inclined flat blade.

Available in 14 sizes with **impeller diameters** up to **2.240 mm**.

Flow rate (max.): 340.000 m3/h
Pressure (max): 18.000 Pa
Temperature: up to 300°C

X Series

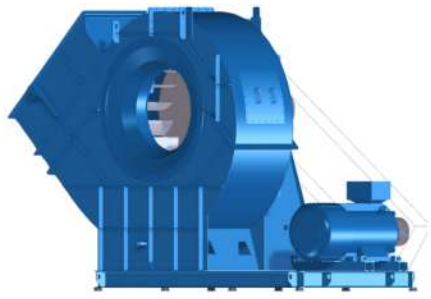


Backwardly inclined flat blade.

Available in 14 sizes with **impeller diameters** up to **2.240 mm**.

Flow rate (max): 500.000 m3/h
Pressure (max): 10.000 Pa
Temperature: up to 300°C

RT Series



Forwardly inclined radial tip blade.

Direct or transmission arrangement

Flow rate (max): 700.000 m3/h
Pressure (max): 12.000 Pa
Temperature: up to 650°C

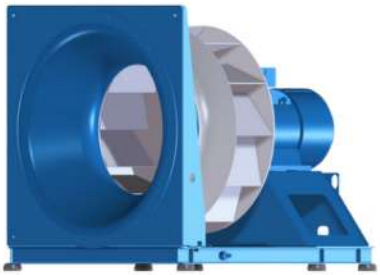
CB Series

Forwardly inclined curved or backwardly inclined blade

Available in 8 sizes with **impeller** up to **500 mm in diameter**.

Flow rate (max): 20.000 m3/h
Pressure (max): 2.000 Pa

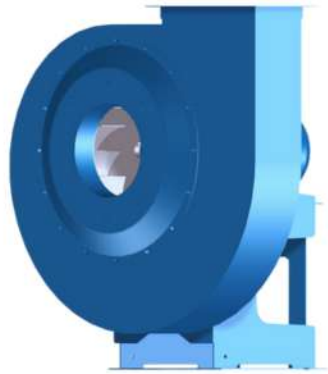
EVO Series



Backwardly inclined flat blade.
Direct arrangement.

Flow rate (max.): 320.000 m3/h
Pressure (max): 11.000 Pa
Temperature: up to 400°C

N Series

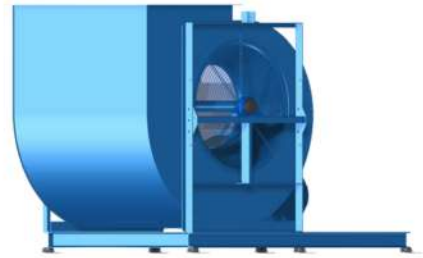


Backwardly inclined curved or radial blade (open or closed).

Available in 5 sizes with **impeller** up to **630 mm in diameter**.

Flow rate (max): 11.000 m3/h
Pressure (max): 8.000 Pa

ChT Series



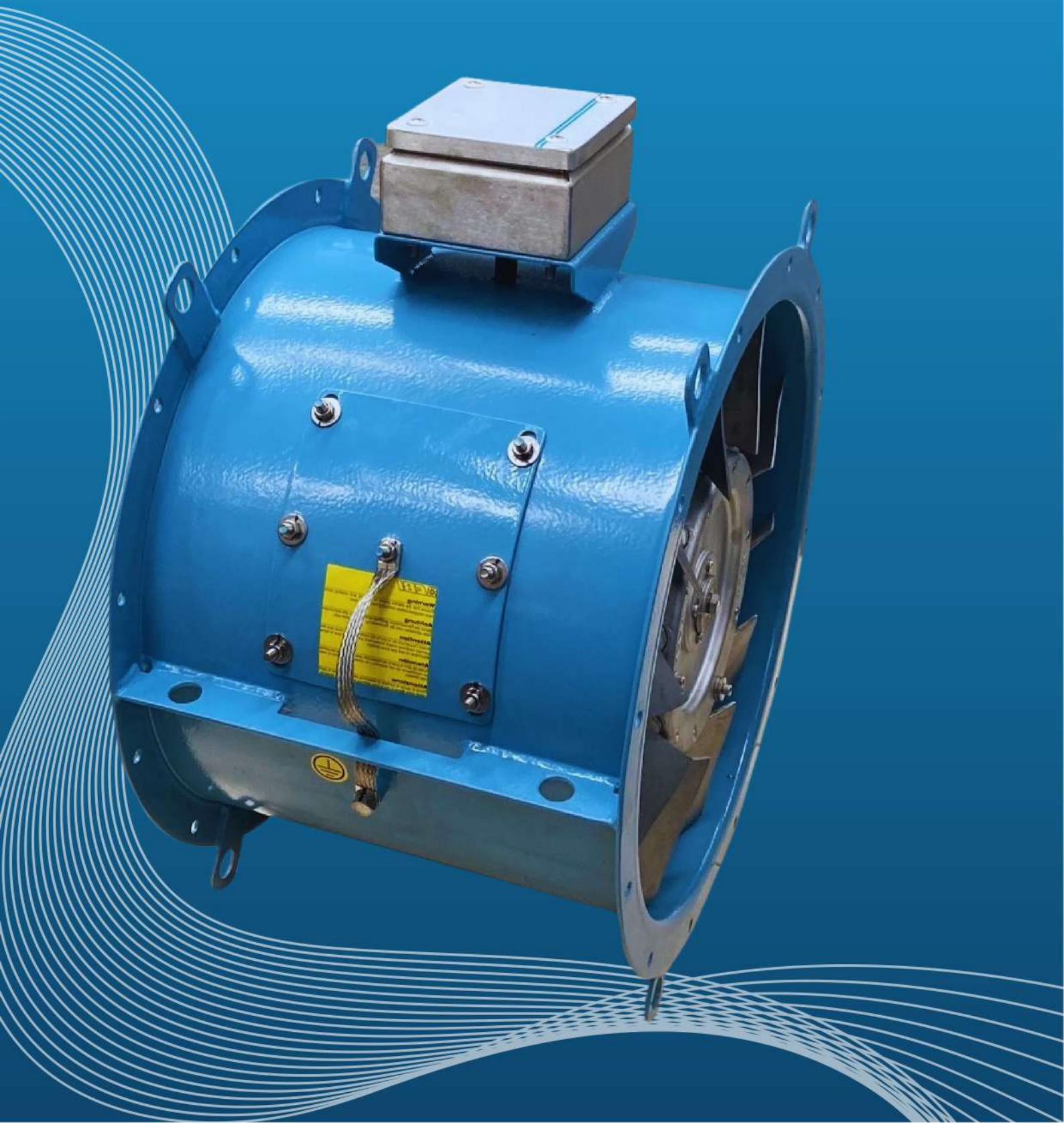
Airfoil or backwardly inclined flat blade.

Available in 19 sizes with **impeller diameters** up to **2.450 mm**.

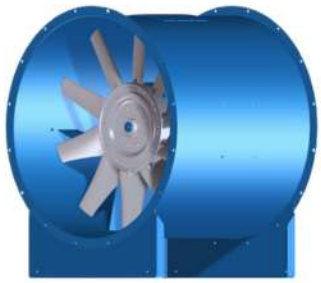
Flow rate (max.): 750.000 m3/h
Temperature: up to 300°C
Pressure (max): 5.000 Pa

CBI® GROUP

Axial fan



GAV Series



Backwardly inclined flat blade.
Airfoil blade and direct driven.

Available in 13 sizes with **impeller** up to **2.240 mm in diameter**.

Flow rate (max): 300.000 m3/h
Pressure (max): 1.000 Pa

GAX Series

Airfoil blade and direct driven.

Available in 13 sizes with **impeller** up to **2.240 mm in diameter**.

Flow rate (max): 300.000 m3/h
Pressure (max): 1.000 Pa

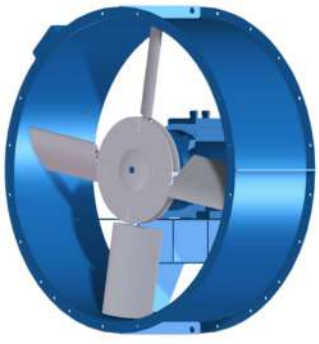
GAT Series

Blade with airfoil profile and transmission coupling.

Available in 12 sizes with **impeller** up to **2.240 mm in diameter**.

Flow rate (max): 50.000 m3/h
Pressure (max): 600 Pa

EFA Series



Airfoil blade and Direct Driven.

Available in 7 sizes with **impeller** up to **2.240 mm in diameter.**

Flow rate (max): 480.000 m3/h
Pressure (max): 1.800 Pa

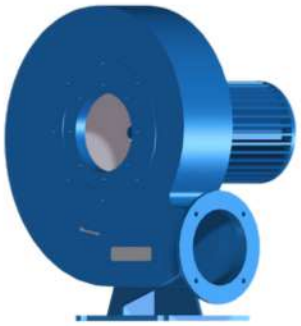
AXL Series

Airfoil blade and direct coupling.

Flow rate (max): 830.000 m3/h
Pressure (max): 5.000 Pa

Small Fan Division

AP Series



Forwardly inclined curved or radial blade.

Available in 5 sizes with **impeller** up to **400 mm in diameter**.

Flow rate (max): 2.300 m3/h
Pressure (max): 3.800 Pa

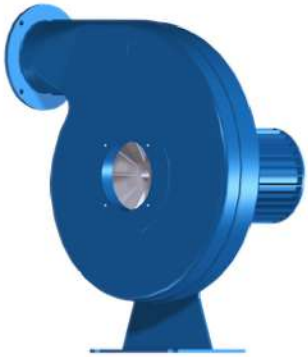
VR Series

Forwardly inclined curved blade.

Available in 5 sizes with **impeller** up to **630 mm in diameter**.

Flow rate (max): 1.500 m3/h
Pressure (max): 1.600 Pa

DT Series

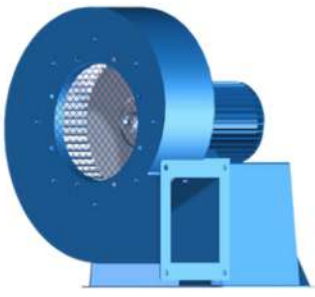


Radial blade.

One size, single or double stage.

Flow rate (max): 400 m3/h
Pressure (max): 4.000 Pa
Temperature: up to 300°C

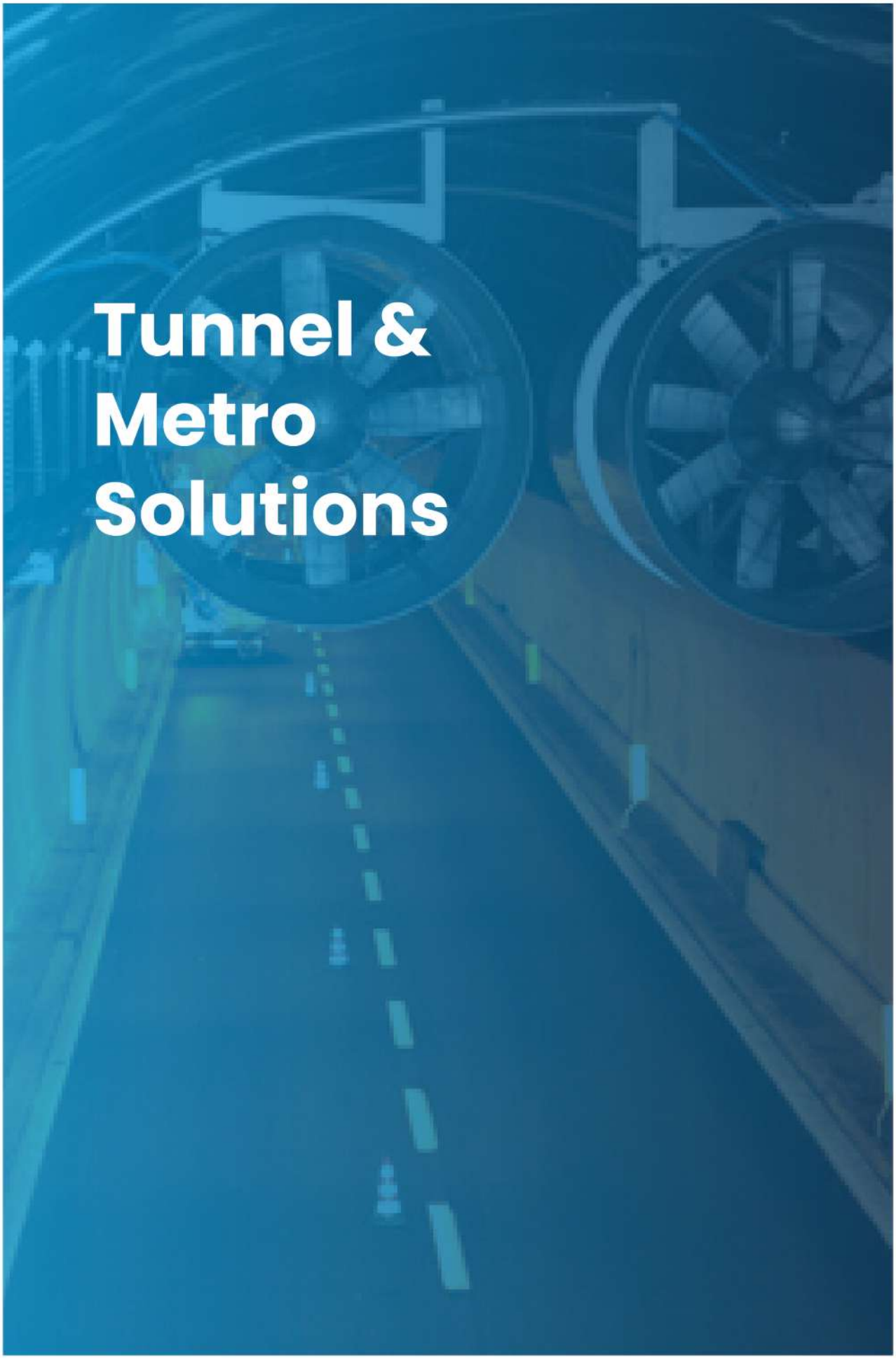
VRP Series



Forwardly inclined curved blade.

Available in 4 sizes with **impeller** up to **300 mm** in **diameter**.

Flow rate (max): 4.500 m3/h
Pressure (max): 4.300 Pa



Tunnel & Metro Solutions

CBJET Series

The CBJET series is specifically designed for installation inside tunnels and galleries.

It is built to the **highest quality standards** to ensure reliable operation over the years and to be suitable for smoke extraction in case of fire.

The fans are **tested** and **certified** to the **strictest international fire safety standards** EN 12101-3 in order to operate up to **400°C/2h**.

The performance of the fans are certified, ensured by aeraulic tests in compliance with International Regulations (AMCA and ISO) in order to meet or exceed all the technical requirements of the project specifications.

Impeller diameter
Up to 1.600 mm

Thrust
from 270 N to 3000 N

Flow rates
250.000 m3/h

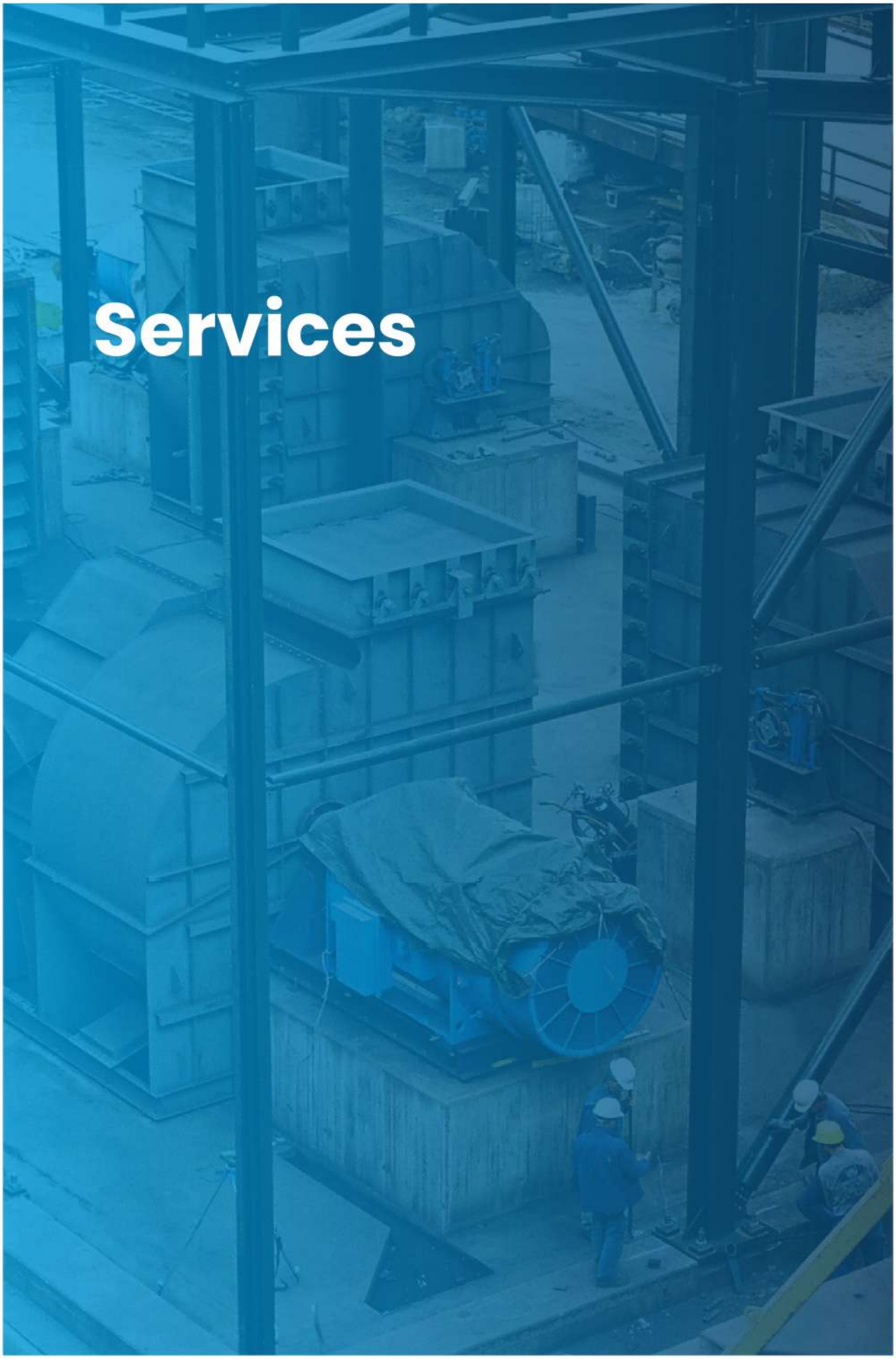
Temperature
Up to 400°C/2h

Driven
Direct driven

AXL Series

The AXL series fan can serve as a viable option for smoke and heat extraction during fire incidents. This feature renders it appropriate for integration into emergency systems designed for metro tunnels and galleries.

Flow rates	Pressure	Blade	Coupling
830.000 m3/h	5.000 Pa	Airfoil blade	Direct coupling



Services

Services

Installation

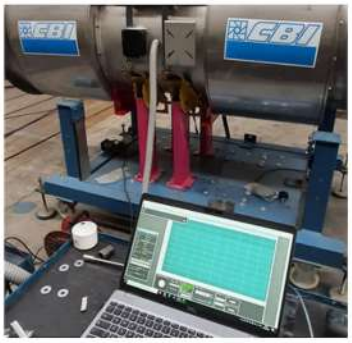
We provide complete assistance for the turnkey installation of every type of fan and related accessories, ensuring the correct execution of the work on-site.

Revamping

The division is specialized in the revamping, even extreme, of any industrial fan, up to its final testing

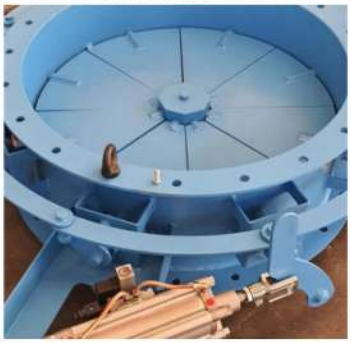
Reverse engineering

Thanks to the help of latests generation 3D scanners, we are able to replicate any component or spare part without the aid of any



Test & diagnosis

Our technicians are able to carry out vibrational, themo-acoustic and aeraulic analysis with the aid of cutting-edge instrumentation, even remotely.



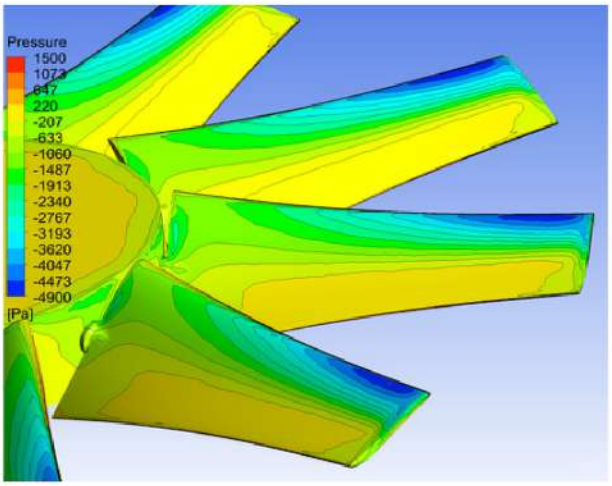
Spare parts

We supply and install any original or perfectly interchangeable spare part, applying the mechanical and technical updates that have occured in the meantime.

Research & Development

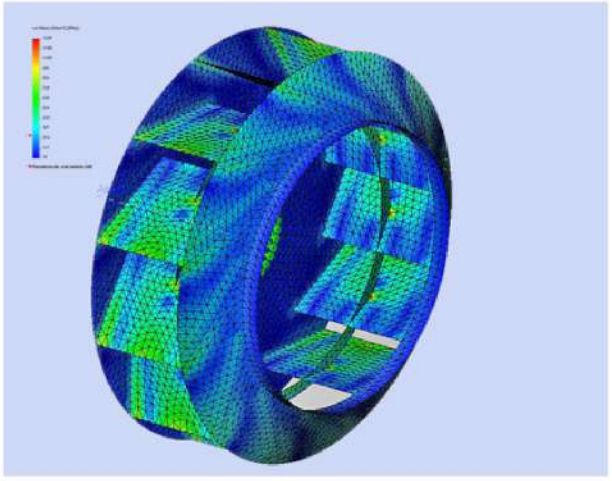
The Research & Development division is dedicated to continually seeking optimized performance, studying **product evolutions**, and industrializing new solutions.

Our team of engineers uses the **most advanced FEM, CFD technologies and modern testing rooms.**



CFD Analysis

CFD software generates aeraulic virtual prototypes which enable to investigate
design solutions, evaluating aero- dynamic performances of single blades, fans and entire systems.



FEM Analysis

FEM analysis is able to predict structural behavior in order to calculate:

- Stress
- Deformations
- Margin of Safety
- Fatigue
- Vibrations spectrum
- Frequency Resonance

Testing Room

R&D division is equipped with a sophisticated full automatic test room projected according to the AMCA standards, where fans up to 710 [mm] of diameter with maximum airflow of 47000 [m3/h] and 5000 [Pa] of pressure can be tested

CBI GROUP

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