



**The story
of our
Axial
Impeller
1974 - today**

ELTA



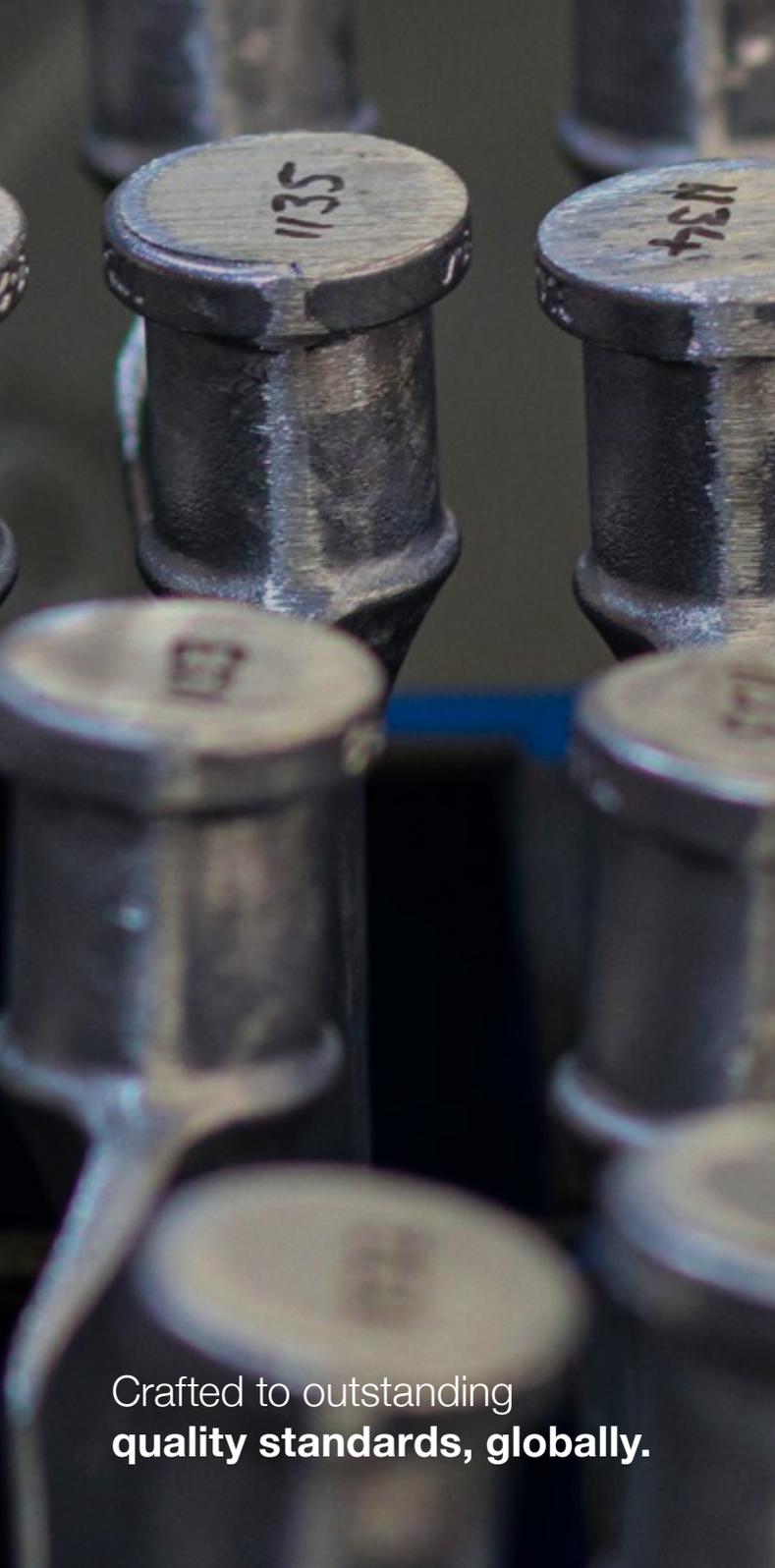
**THE
AXIAL IMPELLER.**



Perfection gained
from generations of
fan engineering.



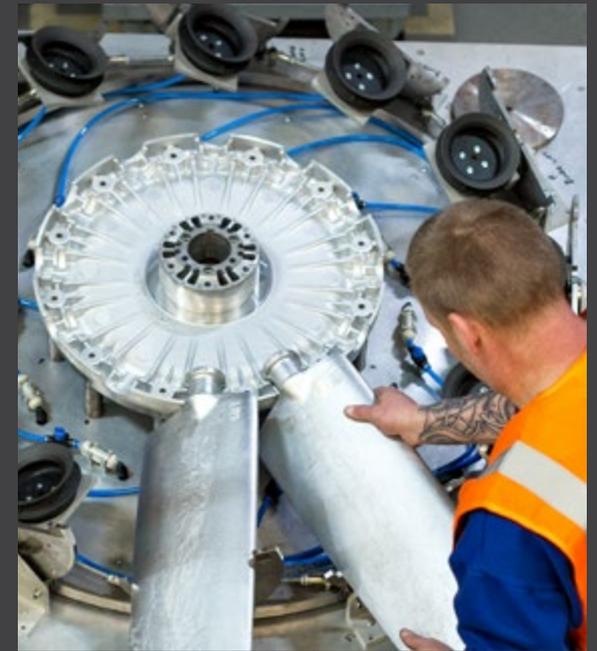
**QUALITY,
OVER & OVER AGAIN**

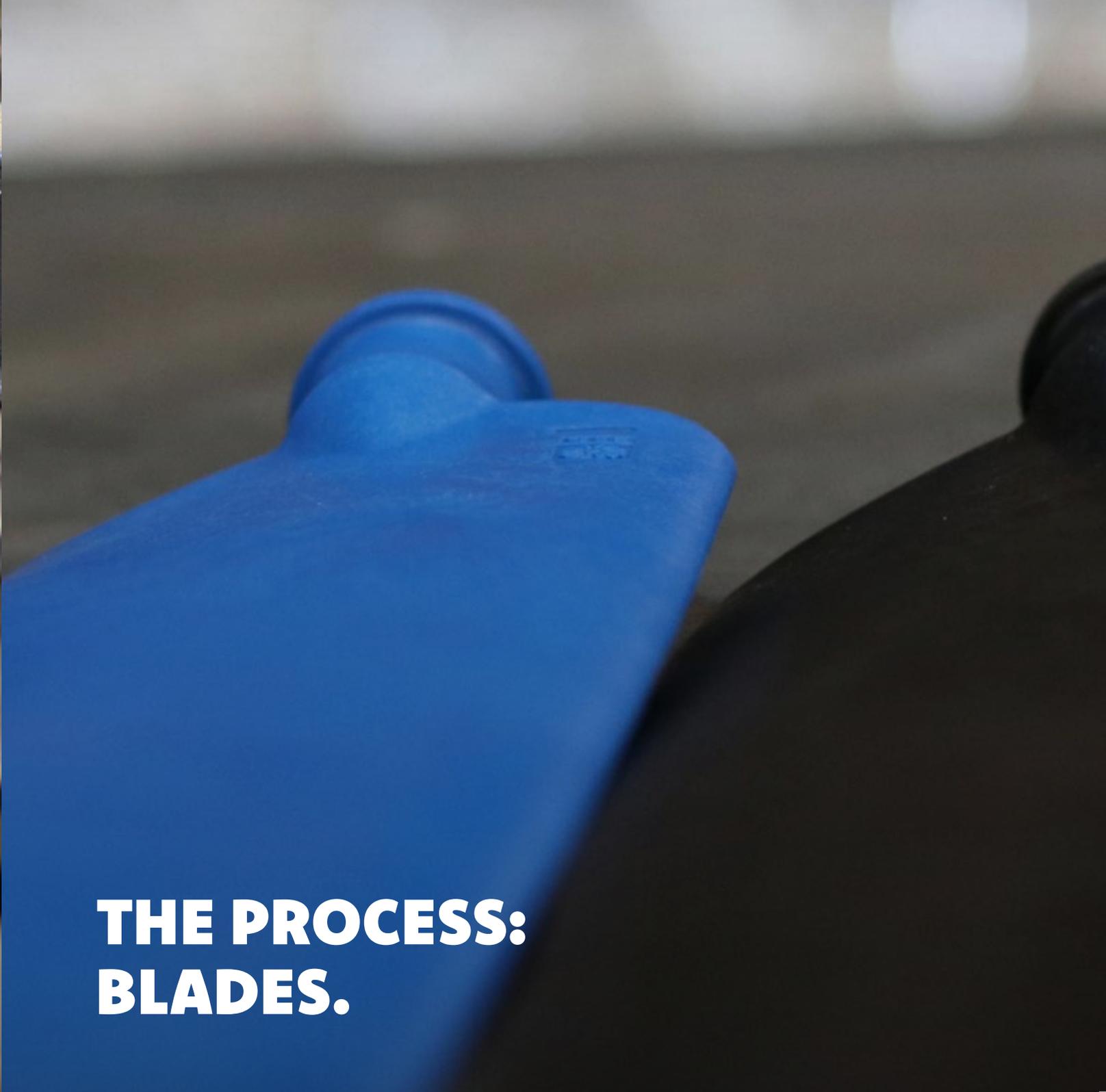


Crafted to outstanding
quality standards, globally.

**Every impeller is
scrutinised to
ensure it performs
to the Elta level
of excellence.**

Our impellers are licensed to carry the AMCA seal ranging from 315 to 2000mm in diameter amounting to over 800 models. We build them with the highest quality materials available on the market. Not only this, but our laboratory is AMCA certified and qualified to conduct tests in accordance with ISO 5801.





**THE PROCESS:
BLADES.**



Each blade cast using the **highest grade of materials.**

Creating a fan that delivers immense performance requires absolute precision in the components of the impeller.

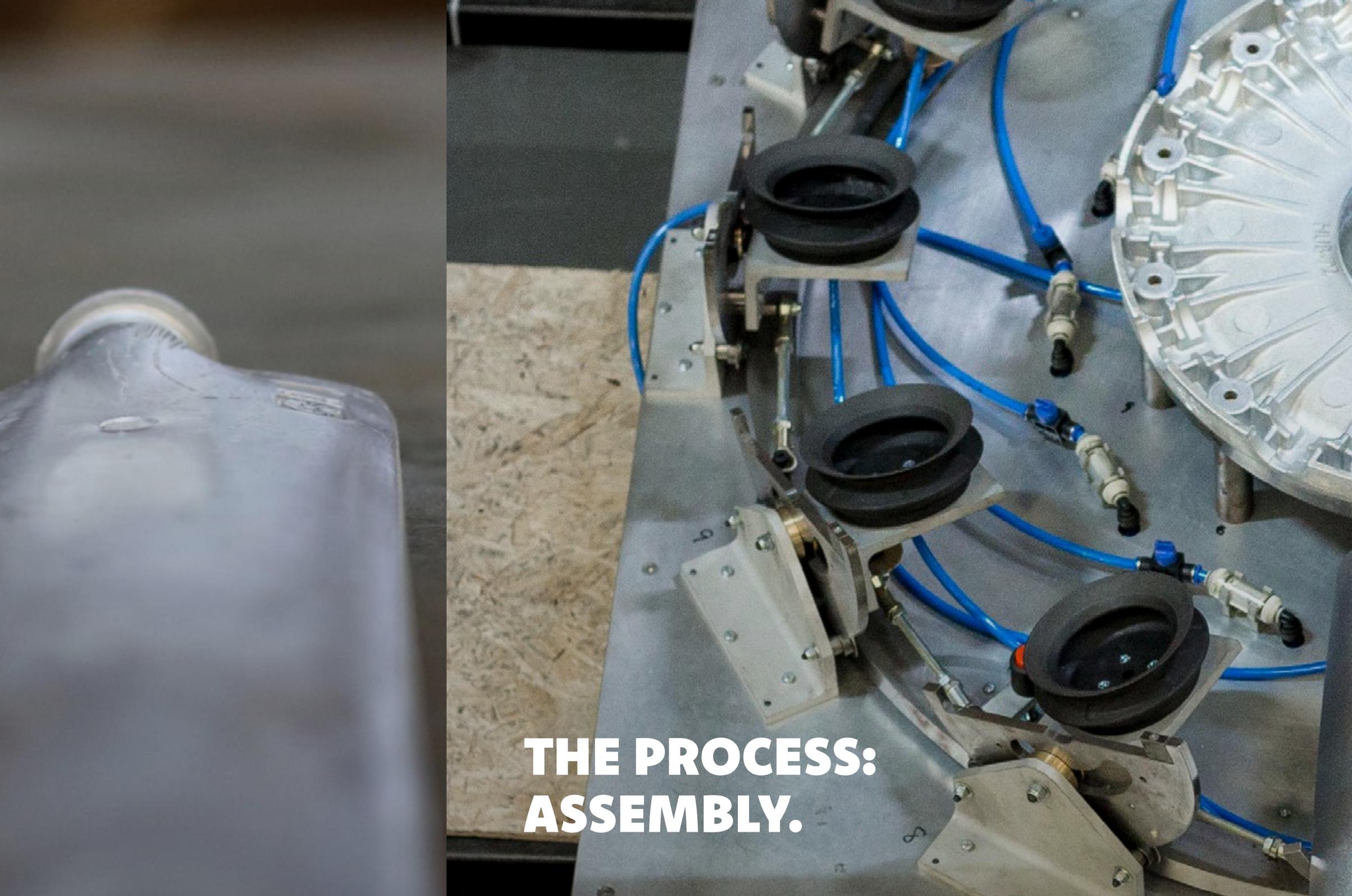
Our impellers are as strong as they are because we source quality materials and have perfected our methods of casting; that's why they can withstand high pressure and temperatures. We combine this with a stringent quality process which includes X-Ray inspection to avoid porosity.

Porosity weakens the internal strength of axial fan blades, their root and the hub. An impeller can look strong on the surface, but the devil really is in the detail.

GRP
70°C

Carbon
70°C

Aluminium
400°C



**THE PROCESS:
ASSEMBLY.**



Attention to detail
for a precise combination.

Every step intentional in creating high-performance fans.

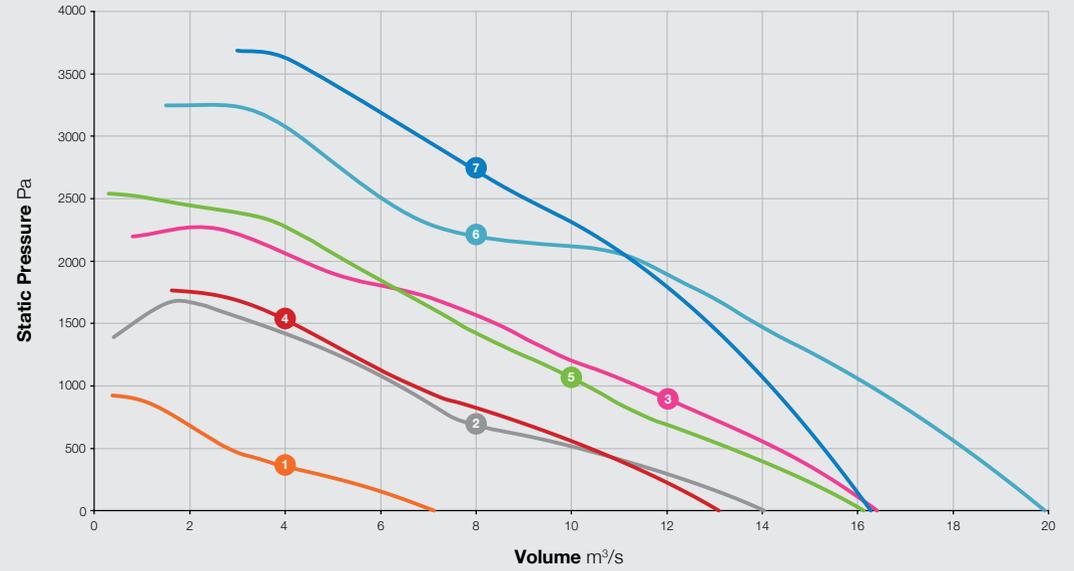
From start to finish, every axial impeller is manufactured in one of our dedicated facilities across the globe. Each and every one is balanced and tested before it leaves our facility. Post assembly, impeller blades are cropped to the required finished diameter. This ensures that, when installed, the impeller blade tip clearance tolerances in the fan casing are maintained.





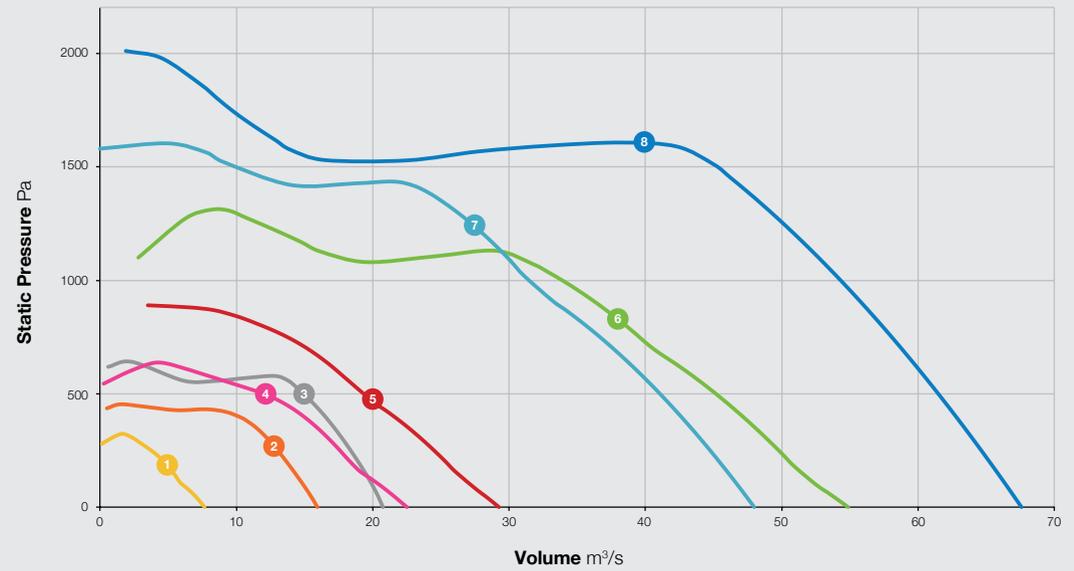
2 Pole

- 1 131-2P
- 2 181-2P
- 3 251-2P
- 4 182-2P
- 5 252-2P
- 6 352-2P
- 7 400-2P



4 Pole

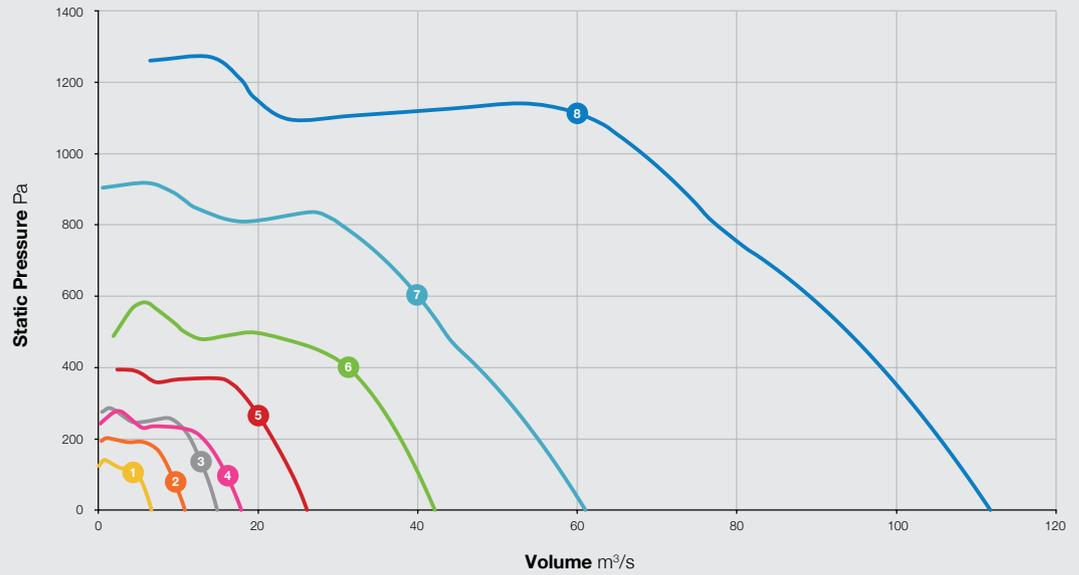
- 1 131-4P
- 2 181-4P
- 3 251-4P
- 4 182-4P
- 5 252-4P
- 6 352-4P
- 7 400-4P
- 8 550-4P



**PERFORMANCE
THAT OUT PERFORMS.**

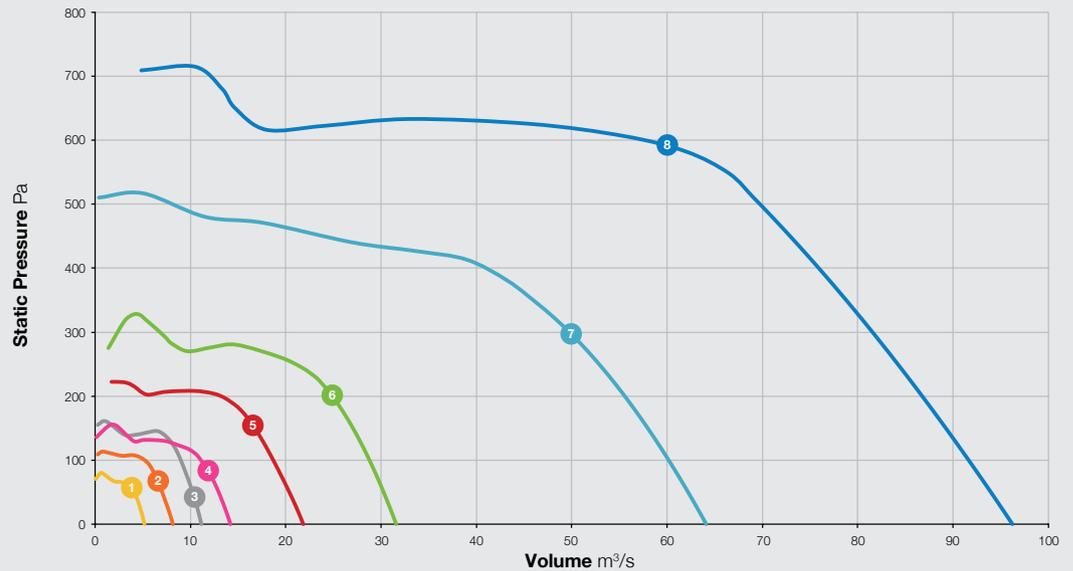
6 Pole

- 1 131-6P
- 2 181-6P
- 3 251-6P
- 4 182-6P
- 5 252-6P
- 6 352-6P
- 7 400-6P
- 8 550-6P

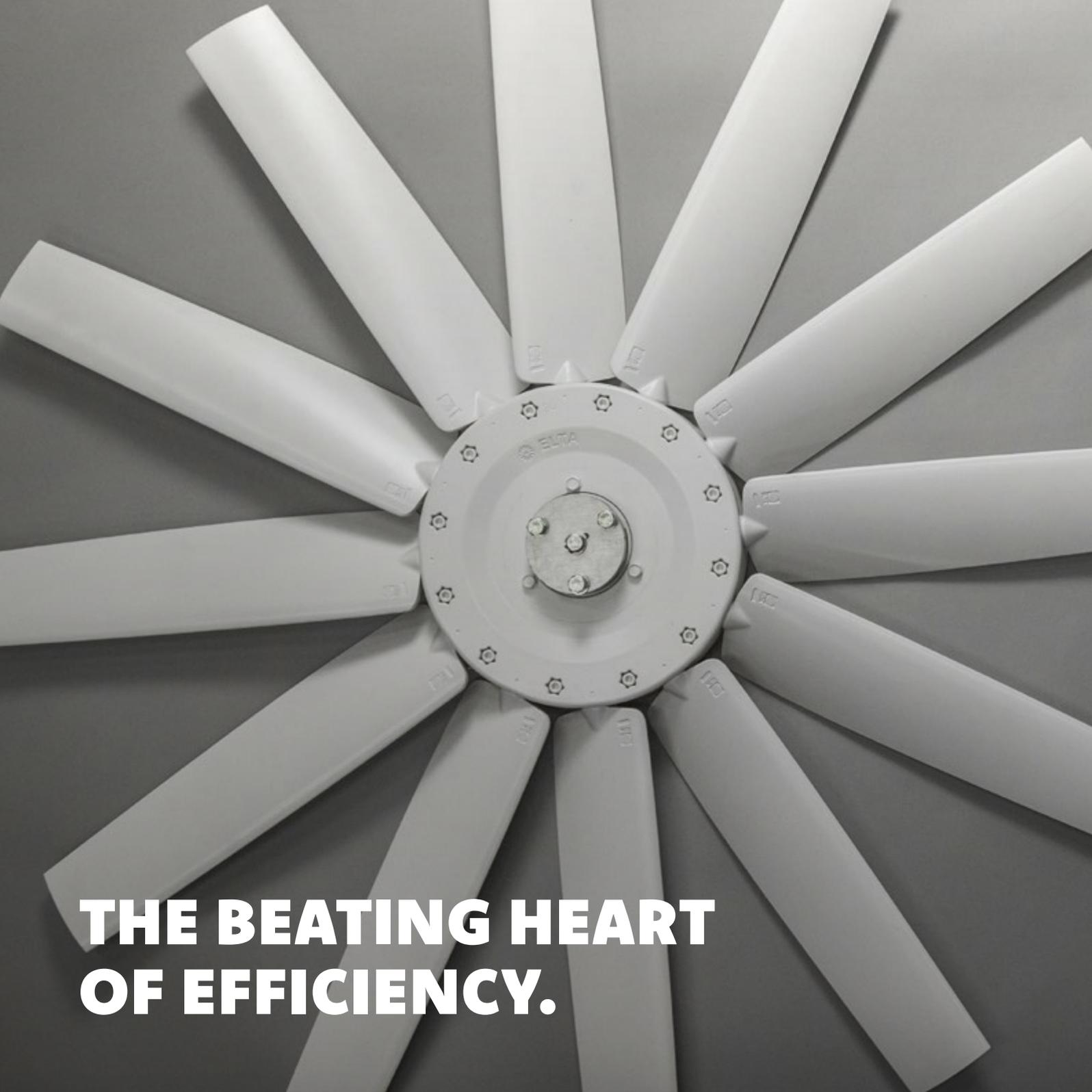


8 Pole

- 1 131-8P
- 2 181-8P
- 3 251-8P
- 4 182-8P
- 5 252-8P
- 6 352-8P
- 7 400-8P
- 8 550-8P



Even the most ambitious projects can be handled by our axial impellers. Optimum efficiencies combined with integrity in build quality gives a product that you can rely on with every single revolution.



**THE BEATING HEART
OF EFFICIENCY.**



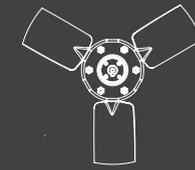
Factory set to meet your
specific requirements.

Available in almost infinite performance variations with increased stress capabilities.

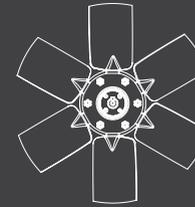
Increased blade root reduces stress levels which makes our range of impellers ideal for arduous fan applications. Vast options are available for ATEX fans, Smoke and Car Park fans to EN12101:3, marine and major Marine classification including Lloyds, DNV and ABS.

The number of blades on an impeller can be varied to suit the needs of the application.

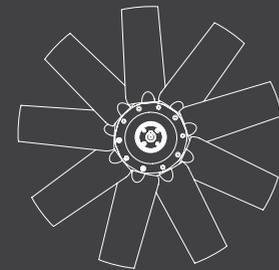
Select from the 2000 range, Intermediate range or 1 Series range of sizes.



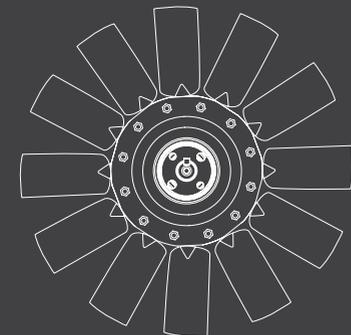
3 Blades



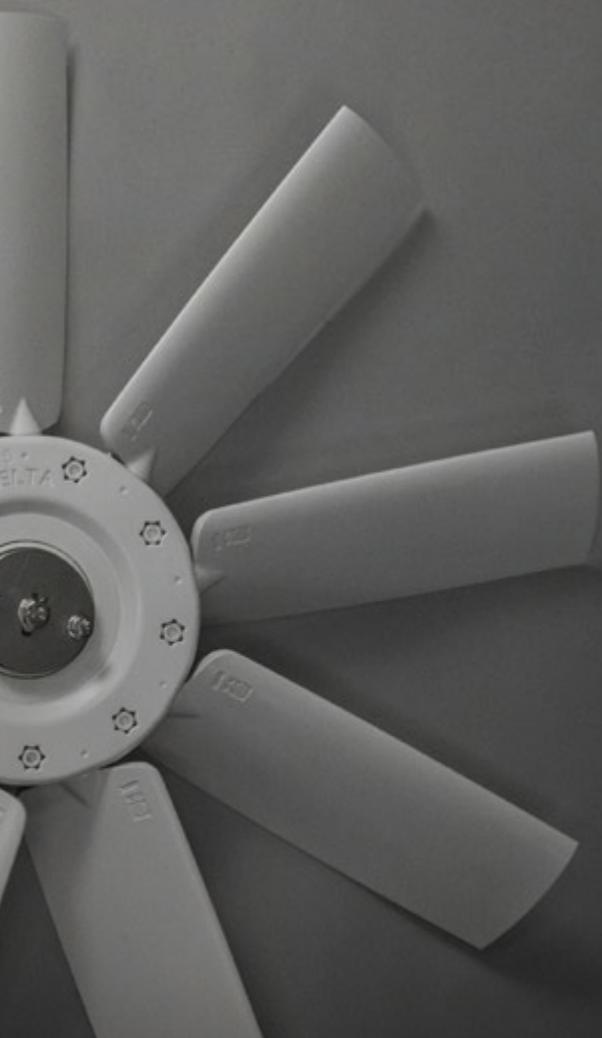
6 Blades



9 Blades



12 Blades



**THE PURSUIT OF
PERFORMANCE.**



Having a positive impact,
restoring the balance.

Corporate social responsibility

We're constantly working to ensure we have a positive impact on our people and planet.

Every facet of our business plays a part in our purpose of enhancing life through air. We strive to provide innovative technology that delivers the cleanest, healthiest air and how we do that and our impact is a constant priority.





**FAN ENGINEERING
REFINED.**



Exceptional durability with
assured sincerity.



**CONFIGURE THE
PERFECT FAN.**



Fan selection at
your fingertips.

Our bespoke Fan Selection Program, built to make meticulous configuration simple.

Making it quicker and easier for you to select fans from our expansive range. Whether you've used the program previously, or if this is your first time, the program will guide you to the perfect solution.

Find out more
eltau.com/fan-selection-program

ELTA

A MEMBER OF  ELTA
GROUP