



# Capability Statement

Your trusted team for innovative air moving solutions



**Industrial Fans & Blowers**



## Who We Are

### **AirEng is a market leader in industrial fans and blowers.**

Over the last 30 years, we have gone from strength to strength in designing and manufacturing the best quality, Australian made, industrial air-movement products, for distribution around the world.

Joining forces with New York Blower Company (NYB) in 2014, AirEng continues to invest heavily in expert personnel and state-of-the-art equipment to maintain one of Australia's largest integrated fan and blower production facilities.

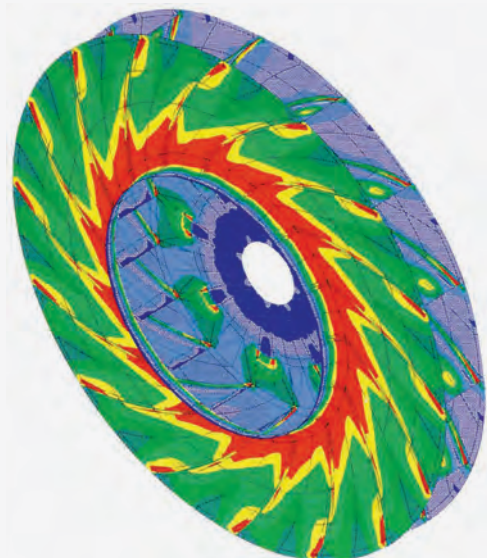
- » We specialise in the design, manufacture and testing of new fans and blowers, as well as overhaul, refurbishment, and redesign of existing units.
- » Our team works closely with customers from concept right through Life of Asset.
- » NYB/AirEng supplies over 20,000 industrial fans and blowers annually, with installations in over 100 countries worldwide.
- » With every project, we prioritise mitigating risk for our customers across Health, Safety, and Environmental (HSE) standards, as well as compliance and operational efficiency.

**We are an end-to-end manufacturer encompassing sales and application engineering, product design and engineering, fabrication and production, painting and testing. And it's all done right here, in Australia.**



## Typical Performance

Volume Performance	To over 1,000m <sup>3</sup> /s
Temperature Performance	From -40° to +1,000°C
Pressure Performance	Up to 40 kPa and greater for blowers
Shaft Power	Up to 15,000 kilowatts (kW)
Sound Attenuation	To 30dB(A)





AirEng are a part of NYB Group, who are one of the world's largest industrial fan and blower manufacturers and have been designing and manufacturing since 1899.

## Engineering & Innovation

AirEng's team of talented Engineers and Designers incorporate leading edge technology, practical design, robust construction and cost effectiveness to create air-movement solutions you can be proud of.

**Our Engineering and Design capabilities include (but not limited to):**

- » Computational Fluid Dynamics (CFD) based modelling
- » Finite Element Analysis (FEA)
- » Sound level testing
- » Vibration analysis
- » Parametric 3D-modelling
- » 3D drawing systems
- » 3D print / test model fans
- » Designs for corrosive environments
- » Wear-resistant applications
- » Re-engineering, and supply of, spare parts for all makes of fans
- » Low noise designs
- » Custom designs for special process applications

## Production

Our full-circle production facility has been configured to allow the fabrication of industrial fans and blowers of any size. By keeping key production processes in-house, we maintain the exceptional quality that AirEng is renowned for, both locally and internationally. We welcome tours of our facilities to showcase the engineering and craftsmanship that go into every fan or blower we produce.

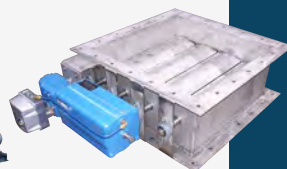
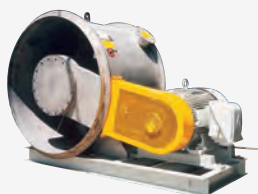
**Our Production capabilities include:**

- » Large in-house abrasive blasting facility over 1200m<sup>3</sup>
- » Spray painters experienced in applying specialist protective coatings
- » Leading-edge balancing machine with a capacity range of 15-360mm drive, to accommodate rotational assemblies of up to 5,000mm (200") diameter / a weight range of 50 grams to over 20,000kg
- » Experienced in-house and on-site fitting personnel
- » Large fibre laser
- » NC machining equipment

## Testing

AirEng's extensive on-site testing capabilities allow us to maintain our stringent quality control measures.

- » All equipment required to carry out tasks such as vibration analysis, laser alignment, specialist measurements, bearing heating and mechanical test runs
- » Proven fan performance backed by an in-house test rig built to ISO standard
- » In-house mechanical performance testing with a standard set-up of up to 500 Kilowatt
- » Mechanical testing has capacity of up to 1,000 volts. Medium voltage/ high voltage or larger power testing available on request.



## AirEng Range of Fans & Blowers

- » Centrifugal Fans
- » Axial Fans
- » Mixed Flow Fans
- » Flow Control Devices
- » Silencers and Sound Attenuation Products
- » Side Channel Blowers
- » Turbo Blowers
- » Positive Displacement and Screw Blowers
- » Fan Accessories



Your Contact



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