



## CAPABILITY STATEMENT

Your trusted team for innovative air moving solutions



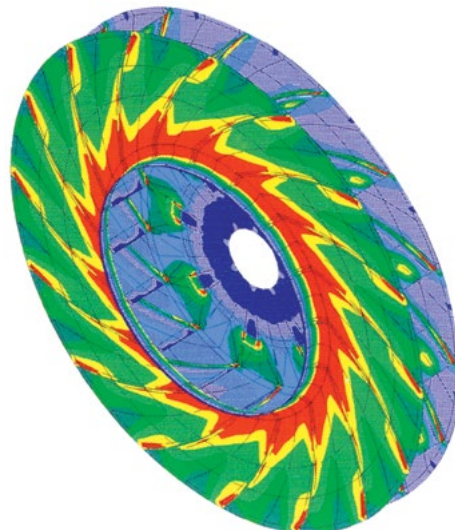
Industrial Fans & Blowers



## Who We Are

AirEng is Australia's leading Designer and Manufacturer of Fans, Blowers and Accessories. Since founding in 1993 and joining with New York Blower (NYB) Company in 2014, we have invested heavily in personnel and equipment to provide Australia's largest integrated Fan / Blower Design and Manufacturing site.

- » We not only design and manufacture new Fans, but also overhaul, rebuild and redesign existing units.
- » The AirEng Team works closely with customers from Concept right through Life of Asset.
- » NYB / AirEng delivers over 20,000 industrial fans per year. Our fans have been installed in over 100 countries globally.
- » Our capability offers full turnkey projects including all mechanical, civil and electrical works.
- » With every project we continually work towards eliminating risks for our customers:
  - Health, Safety & Environmental Risks
  - Compliance Risks
  - Financial Risks
  - Operational Risks
  - Commercial Risks.



## Performance Ranges

Volume Performance	To over 1,000m <sup>3</sup> /s
Temperature Performance	From -40° to +1,000°C
Pressure Performance	Up to 150 kPa and greater for blowers
Shaft Power	Up to 15,000 kilowatts (kW)
Sound	Down to 30 dB(A)

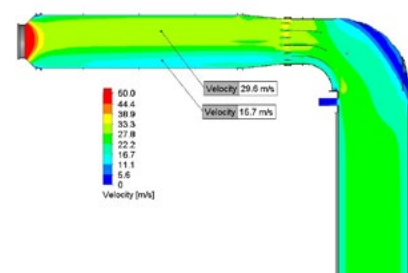
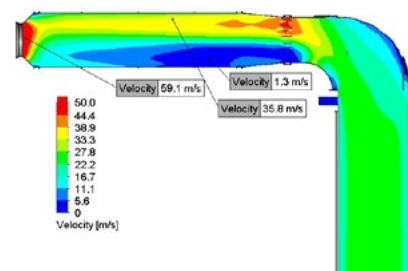
## Testing Capabilities

- » Proven Fan performance backed by the largest set of test rigs in the world.
- » AirEng has the largest ISO 5801 Venturi type Fan performance test rig in the Southern Hemisphere.
- » In-house mechanical performance testing with a standard set-up of 650 Kilowatt.
- » Mechanical testing has capacity of up to 1,000 volt. Medium Voltage / High Voltage or larger power testing on request.



## Engineering & Innovation Capabilities

- » Computational Flow Modeling (CFD)
- » 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 spares for all makes of Fans
- » Low Noise Designs
- » Full custom design for special process applications.



## 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 & Screw Blowers
- » MVR Blowers
- » Fan Accessories.





## Production Capabilities

- » State-of-the Art Production Facilities to ensure timely Deliveries.
- » 3.2 acres site over concrete with over 6,000 sqm of factory and office space.
- » Large, well-maintained factory with modern equipment such as 7 overhead cranes.
- » Large fibre laser.
- » NC machining equipment.
- » New two-storey office facilities to accommodate Engineering and Administration.

### » Manufacturing

- Fabrication of any type of Fan or Blower without size limitations.
- Operation of a welding robot for the application of special welds.



### » Blasting / Painting / Coating

- Large in-house abrasive blasting facility over 1200 m<sup>3</sup>.
- Spray painters experienced in applying specialist protective coatings.

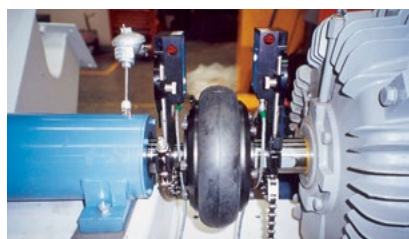
### » Balancing

- Capacity from 30 mm to over 5,000 mm (200").
- Weight range 50 grams to over 20,000 kg.



### » Fitting

- » Experienced in-house and on-site fitting personnel.
- » All equipment required to carry out tasks such as vibration analysis, laser alignment, specialist measurements, bearing heating and mechanical test runs.



### » Installation / Commissioning / Service

- AirEng can oversee this for Fans and Blowers to verify that our products operate according to their design and technical specifications to give a long reliable service life.



### » Overhaul & Refurbishment

- AirEng can overhaul, rebuild and redesign existing Fans and Blowers.

NYB - AirEng is one of the worlds largest industrial fan manufacturers and has been building fans since 1889!

## Turn Key Solutions

- » From feasibility through to commissioning continuing through to life of asset support.
- » All aspects from design through to Civil, Mechanical & Electrical supply and Site Installation with dedicated Project Management & engineering support for all stages of the project.
- » Proud history and projects portfolio that we welcome the opportunity to share with you.







## AirEng Pty Ltd

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