



# Fitzpatrick Engineering Pty Limited

Highly Creative ♦ Results Driven ♦ Excellence



## ABOUT US

Fitzpatrick Industrial Fans (FIF) is an Australian owned company. FIF has been designing and manufacturing a wide range of centrifugal and axial flow fans, damper and silencers for industrial, mining and minerals processing in Australia and overseas since 1984. FIF supplies equipment for new and ongoing projects and continue to refurbish equipment manufactured in the following countries:

Australia, China, India, Fiji, Indonesia, New Zealand, Thailand, Malaysia, Papua New Guinea, Vietnam and New Caledonia

FIF manufactures fans ranging from small units weighing around 100kg with a motor power of a few kW, to fans weighing 20 tonnes with a rotating impeller mass of 4,800 kg. Our company is completely Australian owned and carries out all design, development and manufacturing of its products in Australia. All test and development is carried out at our Sydney factory we have from time to time also performed testing and development for outside companies. All design and manufacture is fully conducted at our Sydney factory everything is completed in-house by our machine and fabrication divisions which enables efficiency and accuracy at all times.

Our primary business is the design and manufacture of fans and related equipment such as silencers, dampers and other flow control devices.

We now have in excess of 40 aerodynamic fan designs and the list continues to expand as we constantly develop new designs and add further options to existing designs to enhance the performance and versatility of our products to keep up with current demands. FIF's continuous research is the cornerstone of future development, with special emphasis on reducing emissions and waste, improving heat recovery, decreasing power consumption, minimising water consumption, increasing plant capacity, availability and operating efficiency.

2496mm Model 6998 radial tipped fan, Port Kembla, NSW



## FAN RANGE

**Straight radial blade materials handling fans with open impellers**

8 Designs covering high and very low flow rates

**Backwardly inclined aerofoil blade fans**

6 designs covering high to very low flow rates

**Backwardly inclined plate blade fans**

3 designs covering high to medium flow rates

**Curved plate, radial tip blade fans**

4 designs covering high to very low flow rates

**H series high pressure low flow rate fans**

6 designs covering low to medium flow rates with single stage pressures to around 20kPa and multistage to 45kPa

2,300mm adjustable pitch axial flow fan, 990RPM, 400kW



## PRODUCT RANGE

### SILENCERS

- Cylindrical/rectangular silencers with or without centre pods/splitters
- High density mineral wool packing
- Acoustic grade perforated sheet facing
- Mild/stainless steel construction
- Low pressure loss pods with nose and tail fairings
- Inlet cones, wire mesh guards
- Mid frequency noise reductions up to 50 dB(A)

### LOUVRE DAMPERS

- Opposed and parallel blade operation parallel blade operation
- Manual lever control
- Manual gear box operation
- Compression gland shaft seals
- Electric and pneumatic actuation
- Mild steel and stainless steel, abrasion resistant construction
- High temperatures to 450°C
- Ball bearing and spherical plain bearings

### BUTTERFLY DAMPERS

- Manual lever, electronic, pneumatic actuation control
- Manual gear box operation
- Compression gland shaft seals
- Mild/stainless steel, abrasion resistant construction up to 450°C
- Ball bearing and spherical plain bearings
- Twin shaft opposed blade operation

### AXIAL FLOW FANS

- Fixed/ adjustable pitch blades pressures to 4.5kPa
- Curved plate blade and aerofoil blade impellers inlet boxes
- Diameters to 3m steel/aluminium impellers
- Downstream stator vanes, discharge diffusers
- Hub ratio from 0.3 to 0.7 direct and vee belt drive

Opposed blade louvre damper with double skin blades



Butterfly damper with pneumatic actuator



49 RMR materials handling fan 355kW, Oberon, NSW



1290mm 63E radial tipped fan 1485RPM 230°C, Bomaderry, NSW





## OUR SERVICE

FIF prides itself in the quality product it designs and manufactures. When designing industrial fans, ventilation, blowers, dampers and silencers every aspect of the product is taken into account to ensure its economic viability, strength, power and reliability. All products are designed to enable fast and efficient refurbishment to avoid any major downtime to your company when the need arises for replacement parts. Our website FIF has been providing ongoing services to high productive, companies such as F.L. Smidth, Bluescope, BHP Billiton, Anglo American, Iloha Resources, QNI, Vale Inco, Cargill, Manildra Group, Pacific Coal and CSR to name a few. Our ongoing commitment to provide quality service and reliability with these companies ensures we continue to provide services for the ongoing upgrades to their equipment and manufacture new equipment as the need arises.

