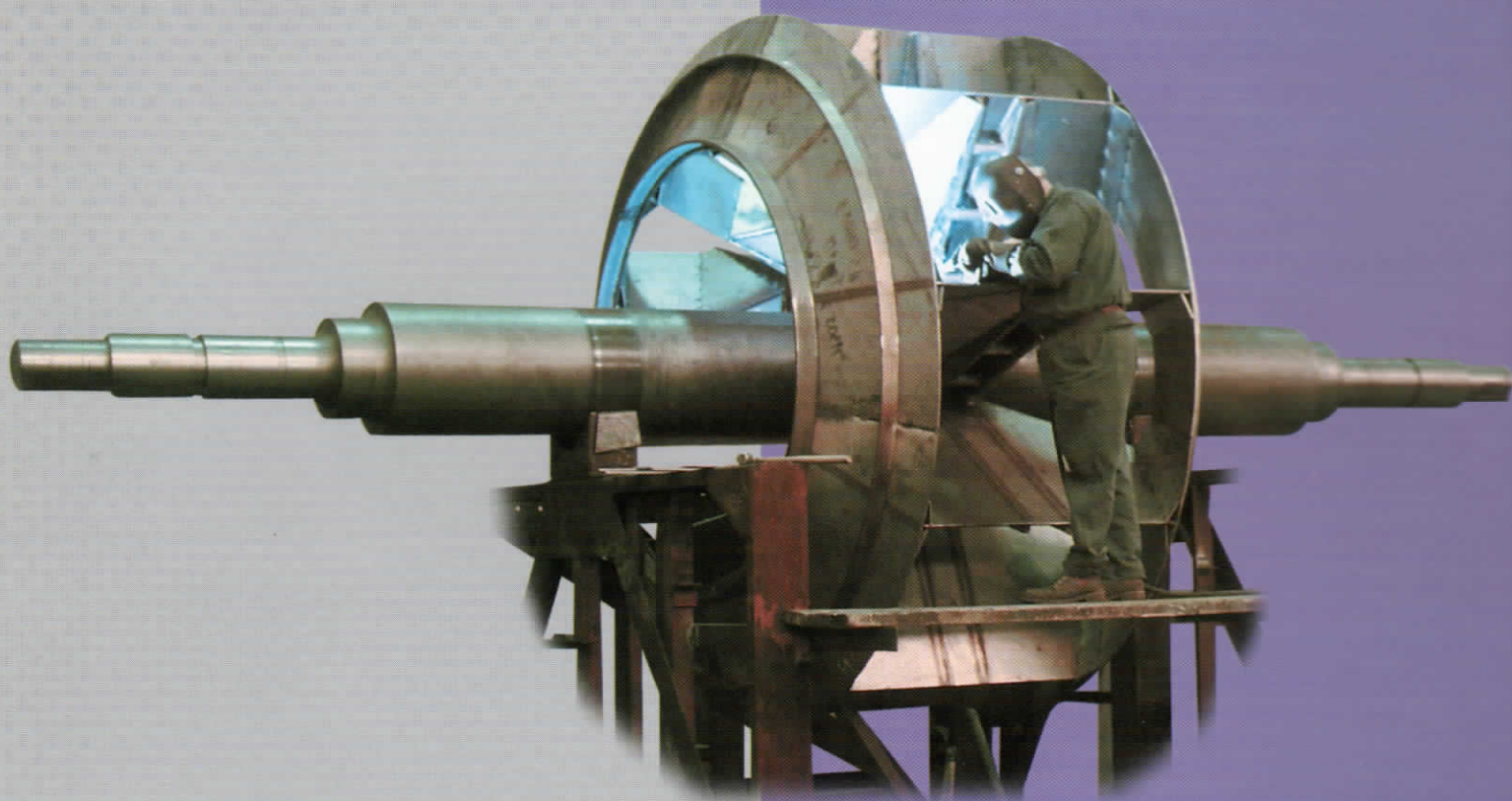




SHELDONS

ENGINEERING



Leaders in fan technology

Air Moving Equipment

**Complete range
of Standard
and Custom Fans**

**Testing and
stress
analysis**

**State of
the art
manufacture**

**Computerized
selection and
Designs**

**From light duty
commercial to
heavy duty industrial**

WHEEL DESIGNS:

Radial

Radial Tip

Airfoil

Modified Airfoil

Backward Inclined

Backward Curved

Forward Curved

FAN TYPES:

Industrial

Centrifugal

Mixed Flow

Vaneaxial

Tubeaxial

Roof Exhaust

Propeller

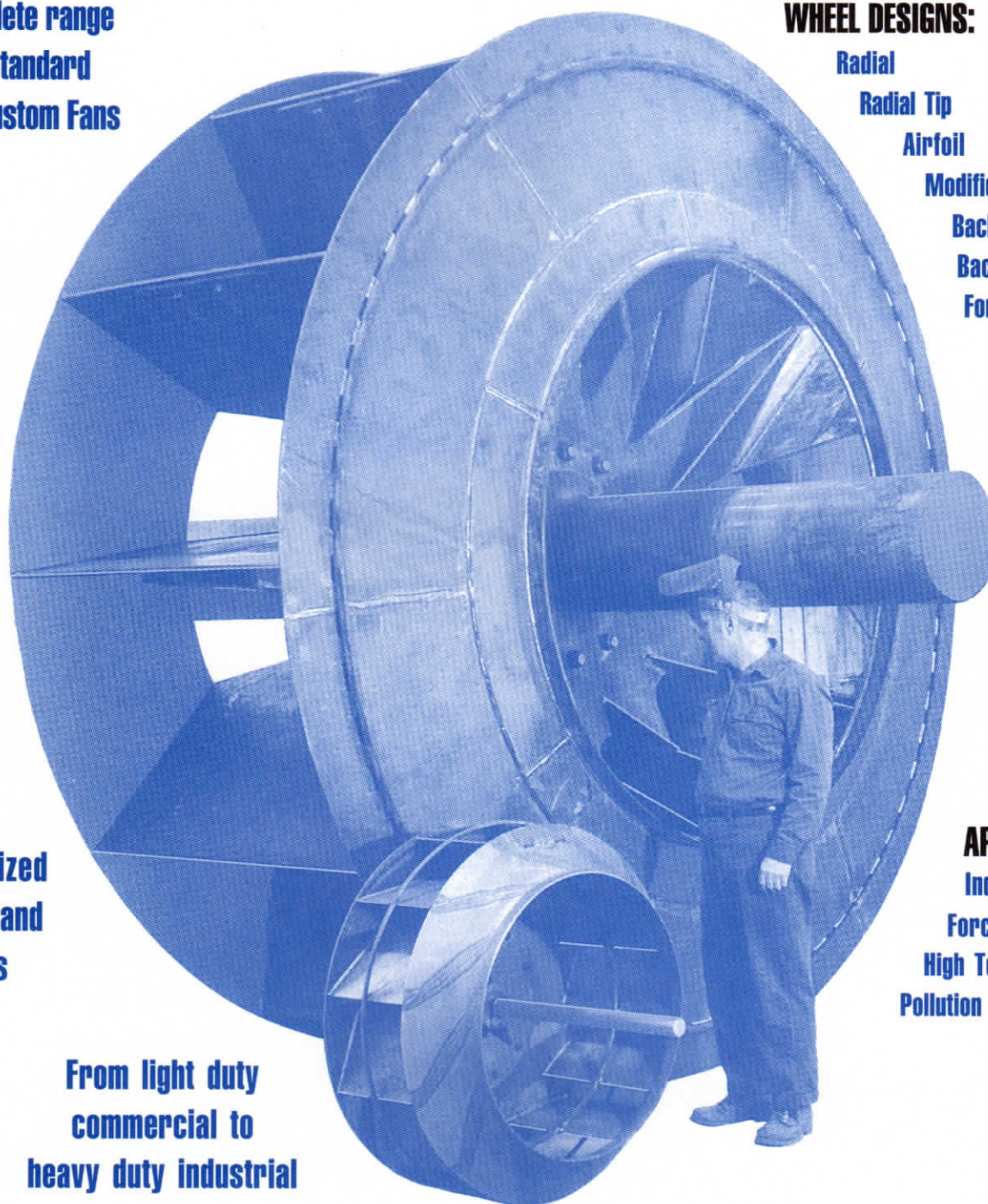
APPLICATIONS:

Induced Draft

Forced Draft

High Temperature

Pollution Control Systems



Major installations throughout the world

OUR COMPANY

Sheldons Engineering was established in 1896 and over the years became well recognized as a designer and manufacturer of a wide variety of highly sophisticated and technical air moving equipment, from light duty commercial air conditioning to heavy duty power plant fans.

From the 1960's through the early 80's, Sheldons became respected and a regular supplier of power plant fans to boiler manufacturers, which resulted in numerous offshore installations and foreign exposure allowing the sale of other industrial fans in these markets. As a result we became proficient in designing fans for mining, ore processing and cement industries; irons and steel industry; chemical and pulp and paper industries; as well as fans for general industrial applications. Today, we are in a position to design and manufacture virtually any fan for custom industrial/mining/process applications.



SHELDONS
ENGINEERING

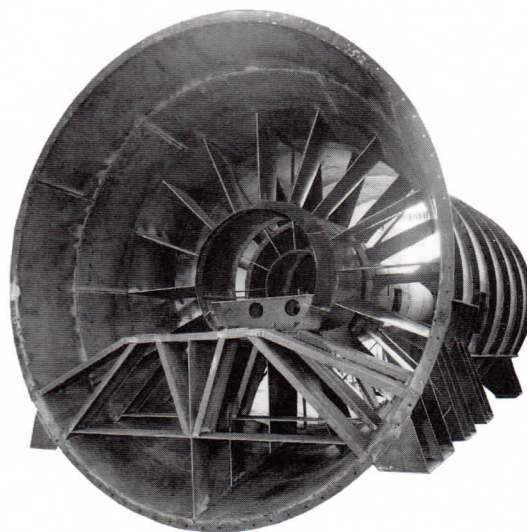
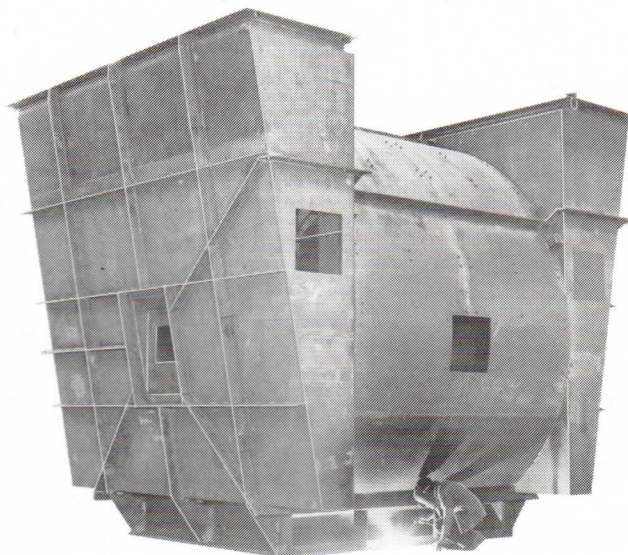
MINING - ORE PROCESSING

Large size axial fans, up to 84" diameter, can be supplied for primary and secondary mine ventilation, fans can be provided with a wide range of custom features, including:

- Cast aluminum adjustable pitch impellers
- Fixed pitch impellers in mild or stainless steel construction
- Mounting skids
- Inlet box
- Integral Silencer
- Motors controls

Fans for severe operating conditions imposed by mining processes and other dirty air applications.

Custom fan designs for the mining industry encompass a wide range of technology from CO gas blowers to anti-abrasion wearplates. CO gas blowers, for example, require exacting designs involving sparkproof impellers, zero leakage shaft seals, etc. High efficiency shrouded straight bladed fan wheels prevent material build up and provide ease of attachment of wearplates. Wearplates are available in a variety of abrasion resistant materials incorporating various attachment methods.

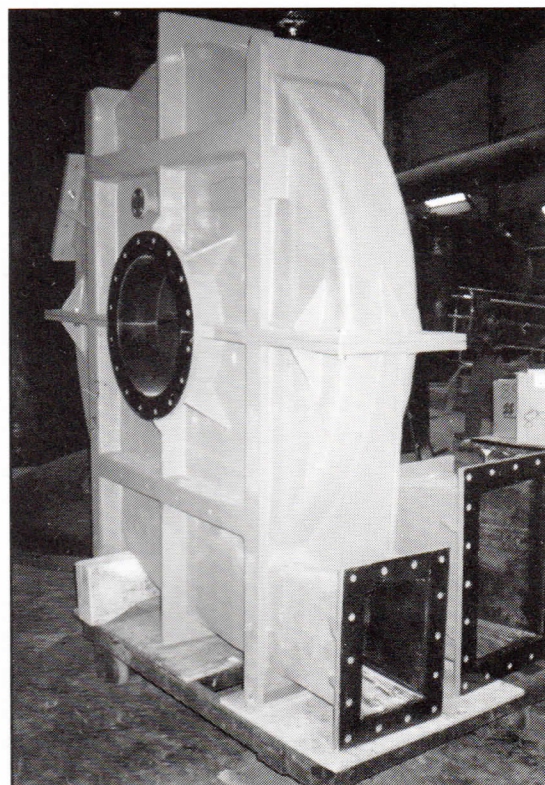
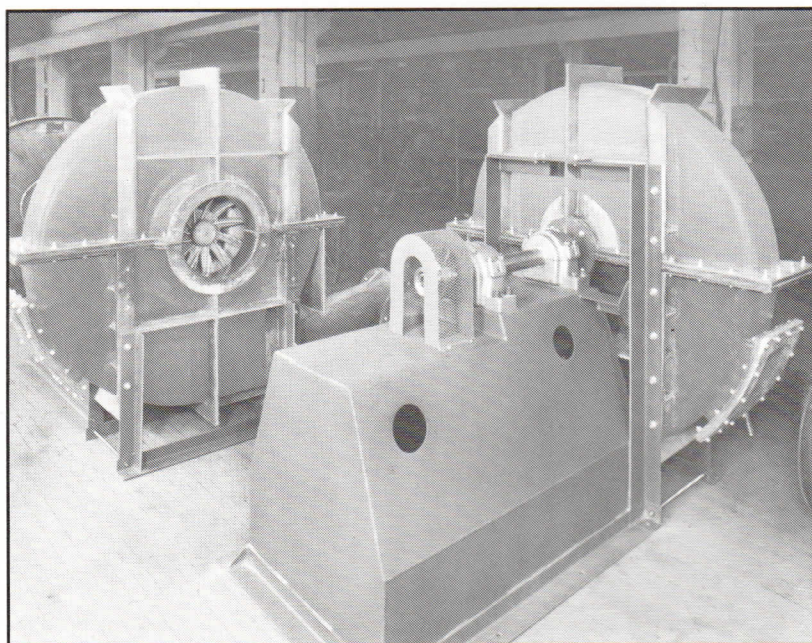


CHEMICAL - PULP and PAPER INDUSTRIES

Fans designed for use in corrosive environments utilizing a wide range of special corrosion-resistant materials in their construction.

Fans used in corrosive applications can utilize materials as listed below:

- Fibreglass reinforced plastic (FRP) with special epoxy and polyester resins
- Inconel Alloys
- Carpenter 20
- Hastelloy C 276
- All Grades of Stainless Steel
- Aluminium Alloys
- Special application shaft seals



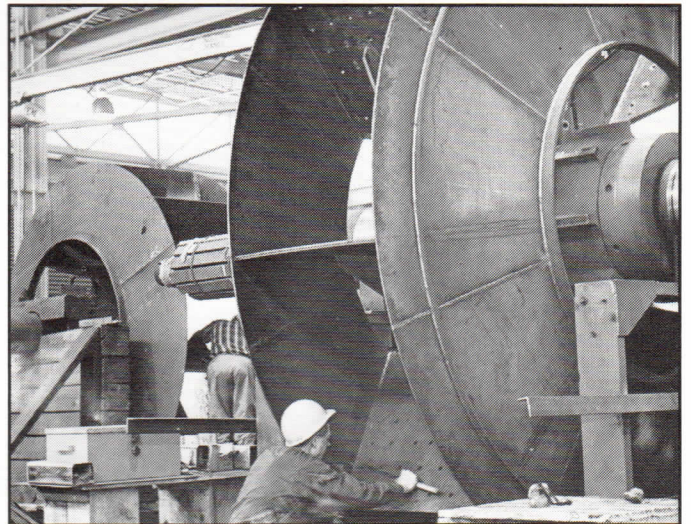
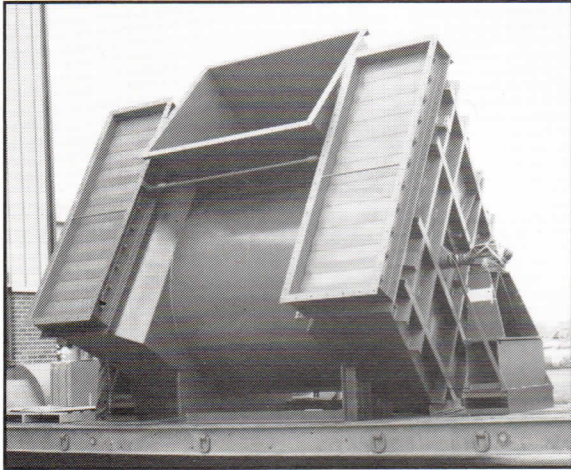
IRON/STEEL - CEMENT INDUSTRY

Fans designed for high temperatures, abrasive gas conditions and high pressures incorporating specialized designs and material technologies.

Fans can be designed for operation up to 40,000 fpm tip speed. Scrubber fans can be designed and built to withstand the most severe service.

These fans and accessories can include custom features as listed below:

- Shrouded radial bladed designs to provide maximum strength with maximum efficiency.
- Open wheel with Self-cleaning blade design to reduce dirt build-up.
- Wheels for corrosive conditions in alloys such as Stainless Steel, Inconel, Hastelloy, etc.
- Sprays to clean blades and shrouds.
- Special high strength alloy steels for high tip speed wheels.
- Vibration and temperature sensors on each bearing.
- Integral shaft and hub design.
- Coated casings and wheels.
- Anti-friction or sleeve bearings with complete oil circulating systems.
- Parallel and opposed blade dampers
- Discharge evase



CUSTOM INDUSTRIAL FANS

Sheldons Engineering can design and produce fans incorporating numerous wheel types and configurations for many different industries and markets.

INDUSTRIES

- Steel
- Cement
- Chemical
- Mining
- Pulp and Paper
- Petro Chemical
- Recycling
- Cogeneration
- Power Generation
- Food and Drug

WHEEL TYPES

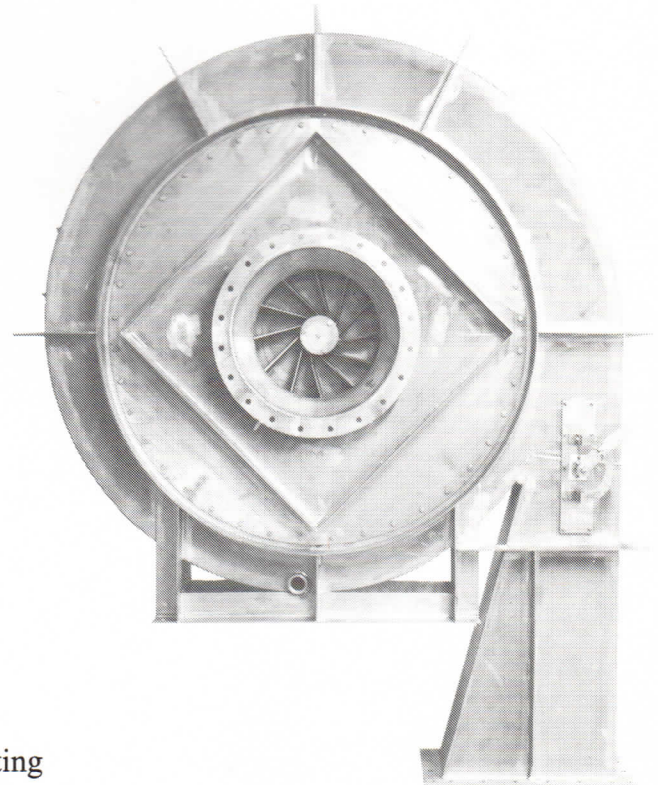
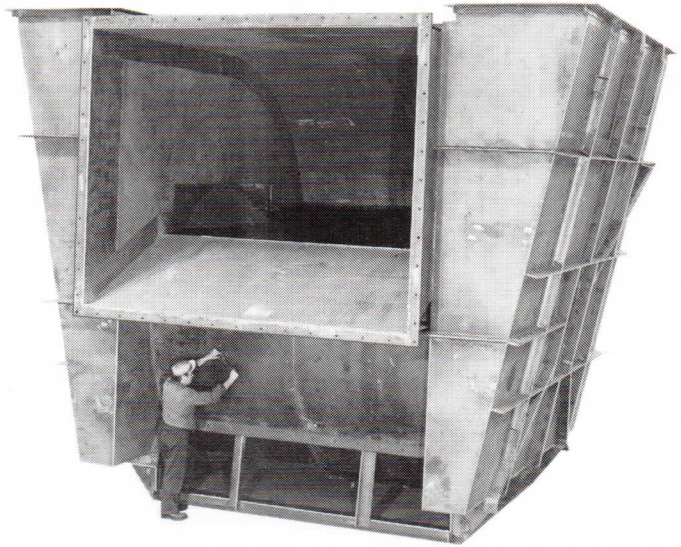
- Radial Bladed
- Single Thickness Airfoil
- Airfoil
- Radial Tip
- Backward Inclined
- Forward Curved
- Axial Flow
- Mixed Flow

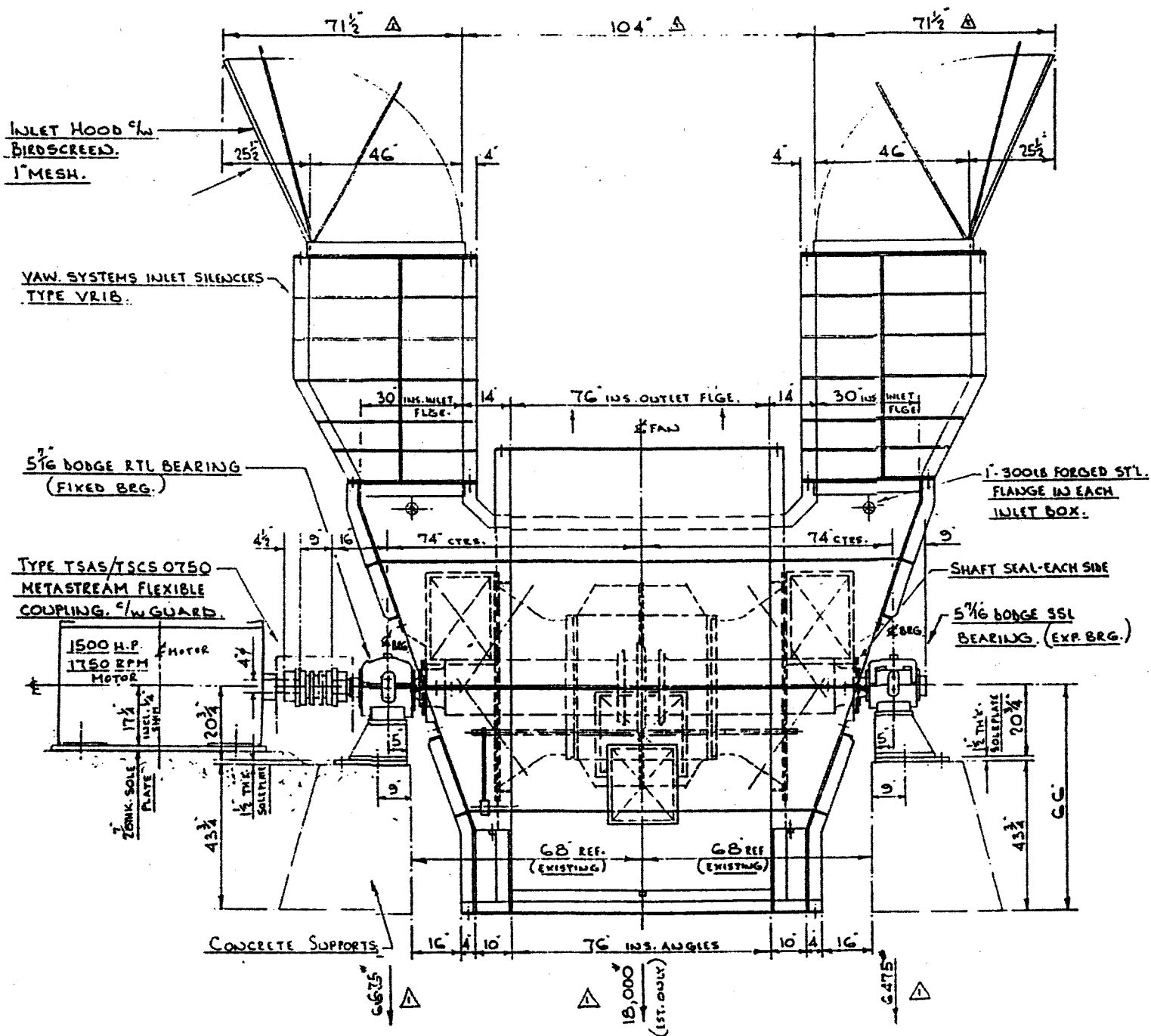
PERFORMANCE/ SIZES

- tip speeds up to 40,000 fpm
- temperatures up to 1500 °F
- up to 60" S.P. with single stage
- over 60" S.P. with multi-stage fans
- wheel diameters over 140"
- airflows over 900,000 cfm

NON DESTRUCTIVE TESTING

- Vibration Stress Relieving
- Thermal Stress Relieving
- Static and Dynamic Balancing
- Liquid/Dye Penetrant Testing
- Magnetic Particle Testing
- Ultrasonic/Radiographic Testing
- Real Time Analysis
- Full range of on-site performance testing





Sheldons Engineering.

Division of Earls Court Metal Industries Ltd.

6660 Ordan Drive,

Mississauga, Ontario, Canada. L5T 1J7

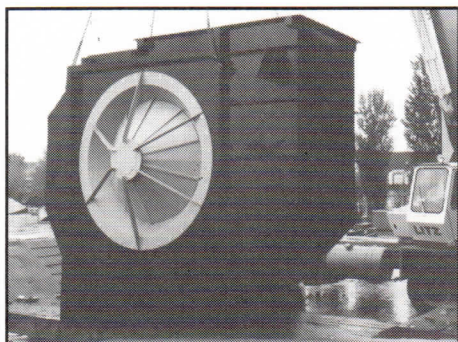
Phone: (905) 564-5072 Toll Free (800) 265-3572

Fax: (905) 564-9004 email: sales@sheldonsengineering.com

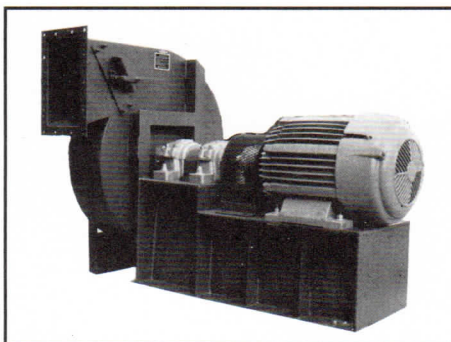
Leaders in fan technology

www.sheldonsengineering.com

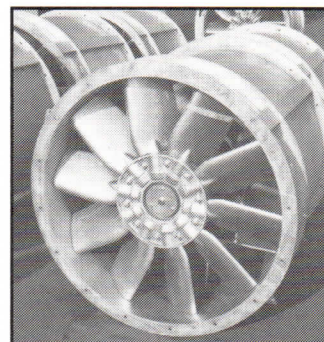
STANDARD PRODUCTS & SERVICES



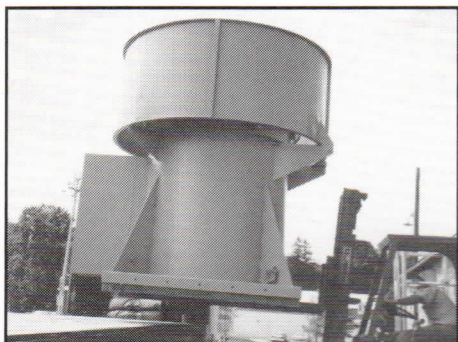
Centrifugal Fans • relatively low pressure air supply or exhaust and fume exhaust fans in industrial applications where there are low levels of particulate matter in the air stream. Can operate at temperatures up to 600 °F.



Industrial Exhausters • centrifugal fans used at high air velocities and high pressures for material handling, high temperature air and fume exhaust, dust and sawdust extraction and oven air recirculation applications. Can operate at temperatures up to 800 °F.



Axial Flow Fans • tubular fans used where large air volumes are required at moderate pressures. Typical applications include primary and secondary mine ventilation, industrial spray booth and paint fume exhaust, and tunnel ventilation.



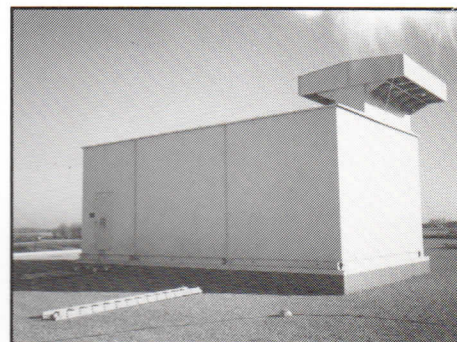
Roof Supply & Exhaust Fans • large supply and exhaust air roof ventilators for industrial and automotive plants.

Engine Radiators • large remote mounted heat exchangers used for engine cooling on electric generator sets installed for emergency power generation in remote communities not serviced by a hydro utility's power grid.

Air Cooled Fluid Coolers • similar to Engine Radiators designed to cool any number of fluids such as fuel, oil, process fluids, etc.



Fume Exhaust Fans • custom built fans incorporating corrosion resistant material for the chemical and pulp and paper industries. Plating tank exhaust fans for acids and alkalis in FRP & PVC construction. Water washed induction venturis for explosive and hazardous gas exhaust. Laboratory hood exhaust fans.



Air Conditioning Units • custom packaged air handling units containing fans, heating and/or cooling coils, humidifiers and filters used for industrial heating and ventilating air supply, clean room air supply, and industrial process air supply requiring cooling and dehumidification.

SERVICES

A full range of on-site services are available by factory qualified factory trained personnel, services include:

- Commissioning
- Performance testing for flow, pressure, power and sound
- System trouble-shooting
- Sound and vibration analysis utilizing real time analyzers
- Dynamic balancing

Repair and Rebuild: Repair and rebuild facilities are available for equipment of Sheldons design and of other fan manufacturers, fast turnaround can be provided in breakdown situations.