

INDUSTRIAL FANS

AVIME Design & manufacture
fabrication

WE WORK WITH YOU FOR THE DEFINITION OF YOUR PROJECTS

- Analysis of requirements
- Definition of your specifications sheet

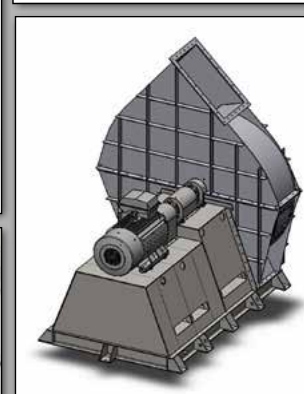
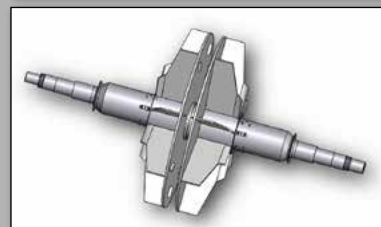
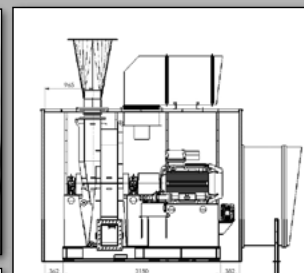
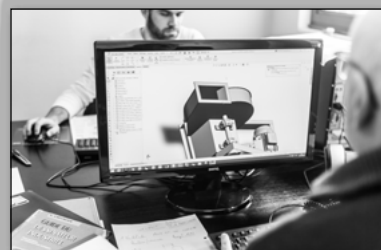
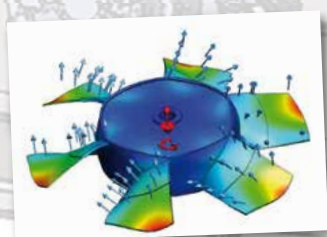
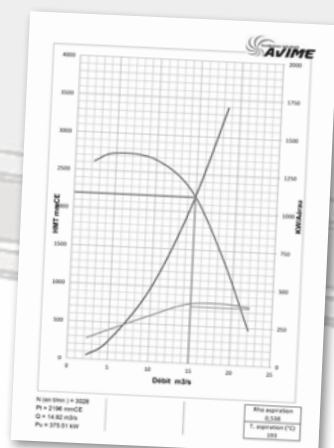
Right from the start of your project, our Project Engineers are at your service to help finalise your specifications sheet.

On completion of our analysis, we produce a commercial tender and a technical dossier containing a draft of the project.

- Our Objective:

To rapidly draw up a proposal that matches with your requirements.

Thanks to our experience in the use of special steels and alloys, we offer solutions that are resistant to corrosion abrasion, erosion and high temperatures (+1000°C): use of tungsten carbide, chromium carbide, hard chromium plating, refractory stainless steel, etc.



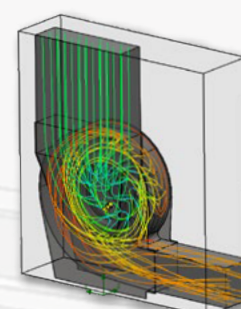
THE ENGINEERING DESIGN OFFICE SOLUTION

- Analysis of the specifications sheet
- Fan dimensions
- Production of drawings
- Validation of the final dossier

Our Engineering Design office uses the latest software. It quickly and precisely defines the main characteristics of the fans, based on the type of gas.

Fan calculations:

- Air flows and acoustics
- Drafting:
 - SOLIDWORKS®
 - AUTOCAD 3D®
- Finite elements calculations
- Specific modes
- Air flow simulations
- API 560, ISO 13705, Shell DEP.





MANUFACTURED IN OUR WORKSHOPS

- Construction of wheels, turbines & stators
- Balancing
- Mechanical assembling
 - shafts
 - rollers
 - bushings
 - couplings
 - seals
 - bearings
- Fitting, aligning
 - rotors
 - stators
 - chasses

WORKSHOP RECEPTION

- Mechanical tests
- Air flow tests (NF ISO 5801)
- Vibration measurements
- Noise measurements



Facilities & Equipment:

- 2000 m2 of workshops
- 4 travelling cranes
- Schenck H40 balancing system (4T, 2.9m, L. 7m)
- Schenck HM3 balancing system (300kg, 1.3m, L. 1.5m)
- Forced air welding (TIG/MIG)
- Press (100T), bending press, turning gear, sheet metal cutter & lathe.



WE PERFORM THE ON-SITE ASSEMBLING & COMMISSIONING

- Assembling
- Commissioning and testing

During the on-site acceptance, AVIME performs the air flow measurements, the mechanical and vibration tests.



The acceptance report triggers the start of the guarantee.

AFTER SALES SERVICE

Original and all supplier parts

- Seals
- Bearings, bushings, rollers, etc
- Dilation joints, sleeves, etc.
- Vibration sensors.
- T° probes, anti-vibratile contact, etc.



ROTATING MACHINE SERVICE



AVIME detects, solves & anticipates

CONDITIONAL MAINTENANCE WITH VIBRATION ANALYSIS

**Preventive management
to maximise machine return
on investment**

Chose frequency and select thresholds
according to the standards:

VDI 2056 - NF E 90 300

ISO 2372 - API. 617

- Spectral analysis
- Defect pinpointing
- Trend curves

MAINTENANCE & PREVENTION

Personalised contract drawn-up
to match your requirements for
your annual conditional maintenance
with vibration analysis and mechanical
service provisions, etc.

MECHANICAL SERVICE PROVISIONS

**On-site and in the workshop
by turbo-machine specialists:**

Maintenance of fans and
centrifugal compressors

- Checks: Packing seals, rotors,
rollers, bushings, couplings, etc.

- Alignment

- Adjusting oil flows, adjusting
safety instruments:

Thermostats, pressostats, sensors, etc.

- Repairing wheels: cracks,
liquid nitrogen assembling (-183°C),
facing, DNC control.

- High hydraulic pressure
dismantling (1000 bars).





AVIME DETECTS, SOLVES & ANTICIPATES

ON-SITE AND WORKSHOP BALANCING

Elimination of residual unbalance leading to an increase in vibration intensity.

LASER ALIGNMENT

Intervention with the guarantee of perfect alignment between the motor and the fan.

EXPERTISE

Services spécifiques to be informed of the slightest anomaly.

EMERGENCY REPAIRS

Analysis of needs & action

Quickly on the scene, our technicians are qualified to perform most repairs on-site.

AIR FLOW REPORT

Performance characterisation (NF ISO 5802)

- Flow measurements
- Pressure / temperature
- Hygrometry, power
- Analysis & processing
- Full report with recommendations

