



Excellence in Filtration and Fluid Management Systems



AEROSPACE

# INTRODUCTION

## Excellence is our first concern

Novintec is an independently-owned company, which offers a wide range of products and services in various cutting edge industries including Aerospace, Nuclear and Formula 1.

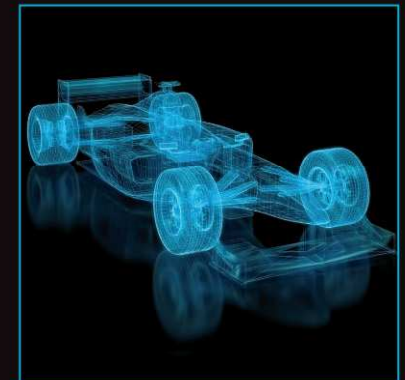
Since its foundation in 1972, Novintec has steadily grown from a manufacturer of filters to a substantial manufacturer of components modules and sub-systems.

All of its activities from design, development, manufacturing to after-sales are centralized in Sully-Sur-Loire in France.

As a first-tier or second-tier supplier Novintec responds to individual customer needs for all major and critical hydraulic functions, for civilian and military aircraft and helicopters.

All Novintec employees are invested in a continuous improvement philosophy with the priority of Customer Satisfaction.

Novintec makes continuous investments in its production and also in Research and Development, in order to anticipate the future needs of its Customers and to optimize its offering.



# APPLICATIONS AND PLATFORMS

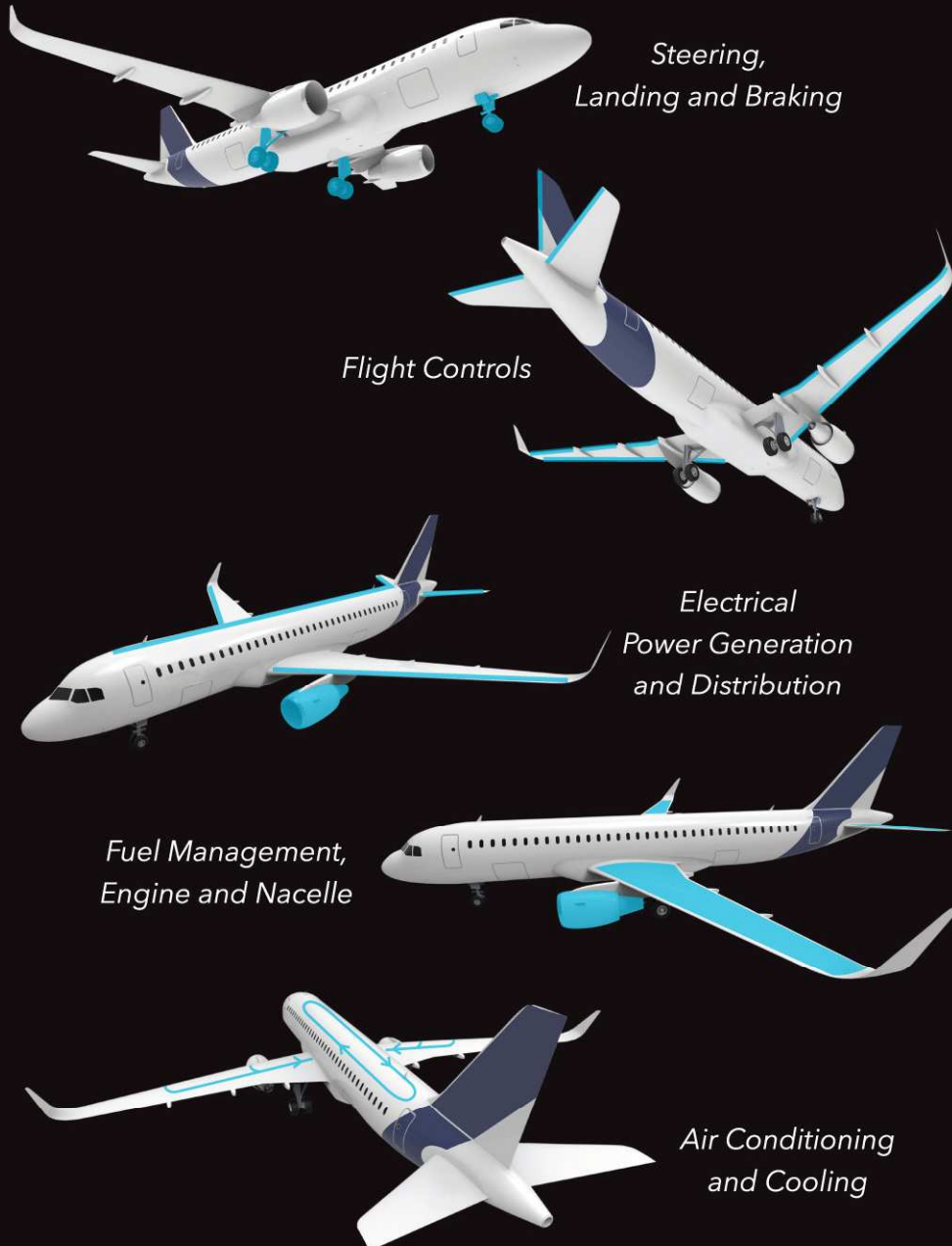
## Years of experience in leading edge technologies

For more than forty years, Novintec has worked in partnership with the main Aircraft/Helicopter Manufacturers, Engine Manufacturer and Original Equipment Manufacturers, for military and civilian programs.

Novintec delivers key equipment for major critical functions on board.

Novintec's equipment is used on the following major programs :

- Long Range Aircraft : A320 Family, A330 Family, A340 Family, A350 XWB, A380, B787, B777, CSeries,
- Regional Jets : SJ100, MRJ, CRJ 700/900, ATR 42/72,
- Business Jets : Falcon 7X, Falcon 5X, Global 7000/8000,
- Helicopters : AW139, AW189, AS332, H120, H125, H135, H145, H160, H175, H225,
- Engines and APU : Silvercrest, Arrius, Arriel, Ardiden, Makila, MTR390, RTM322,
- Military Aircrafts and Helicopters : Rafale, Eurofighter Typhoon, A400M, KC390, NH90, Tiger,
- UAV.





# FILTRATION

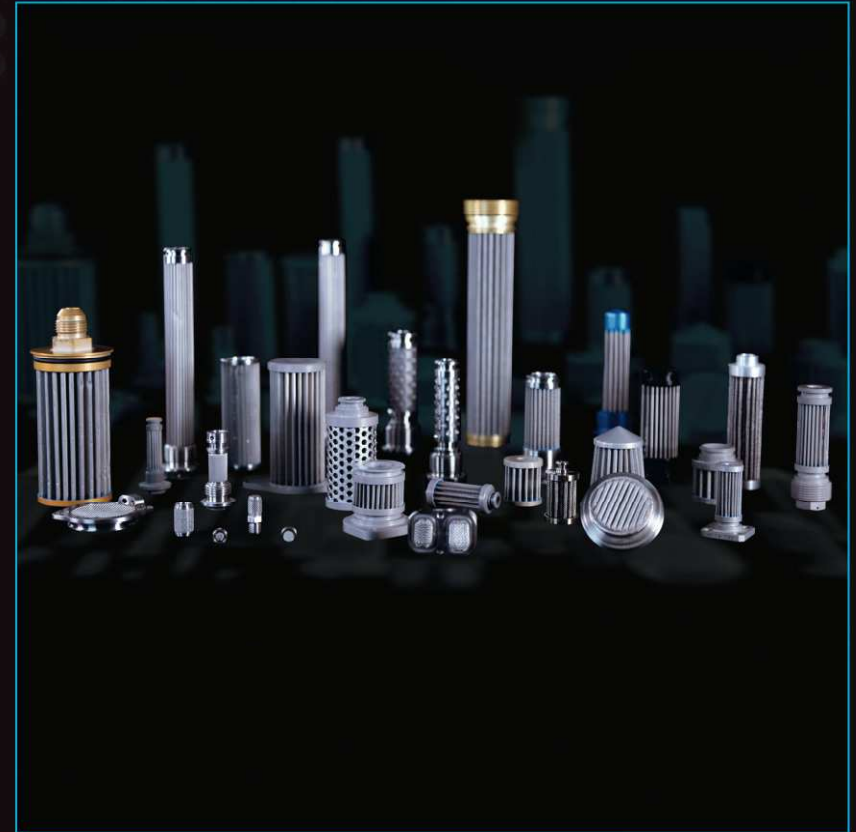
## An expertise recognized in the filtration of fluids and gases

The cleanliness of fluids is a major concern of our Customers to ensure equipment reliability, safety and durability. This is reflected in all of Novintec's manufacturing phases.

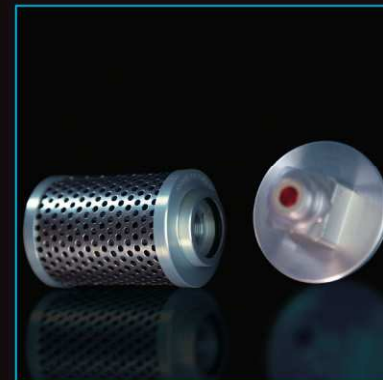
Novintec develops, qualifies and produces a comprehensive line of filtration systems for aircraft and helicopters to purify all types of fluids and gases that can operate in extreme conditions.

The solutions proposed range from disc filters and pleated cartridges to complete filtration manifolds equipped with a filter and clogging indicator.

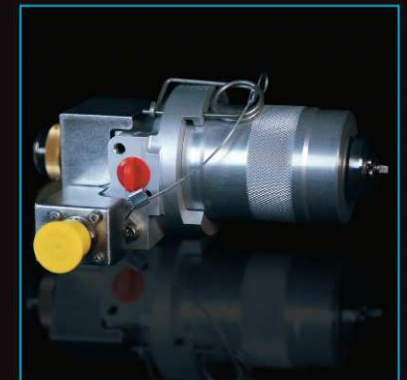
Because of its strong experience in fluid analyses and particle counting Novintec is able to characterize and qualify its filter elements and to perform special tests on request.



*Wide variety of filters*



*Filter cartridge with its visual clogging indicator*



*Filtration Manifold for Auxiliary Power Unit*

# COMPONENTS

## Wide variety of functions



*Wide scope of Precision Hydraulic Components*



*Low Pressure Ground  
Connector for air conditioning*



*Solenoid Valve*

Principally based on the Customer's specification Novintec supplies bespoke solutions for all type of fluids. Novintec components address two key functions :

- Control and Monitoring,
- Fluid Commutation and Regulation.

In each area, Novintec offers a wide range of safe, reliable, robust and innovative equipment including but not limited to :

- Visual, electrical and digital pressure indicators,
- Low level mechanical and electrical indicators,
- Mechanical and electrical fluid gauges,
- Bleed valves,
- Check valves,
- Pressure switches,
- Fuse valves,
- Pressure regulators,
- Solenoid valves.

Novintec also develops and manufactures new products directly linked to its field of expertise : fluid management in demanding conditions.



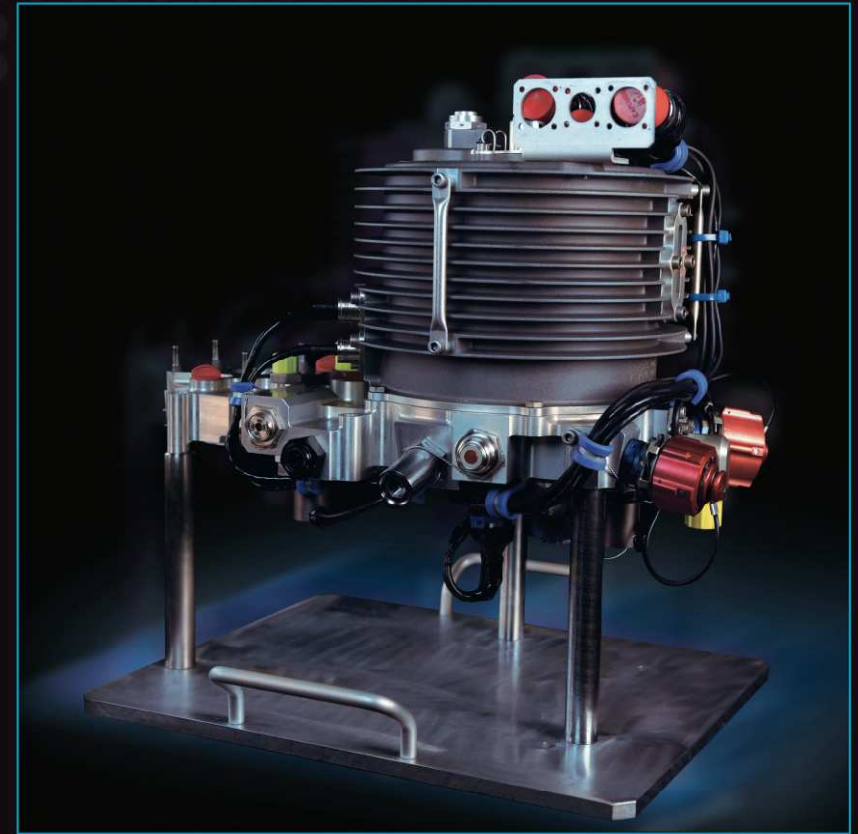
# SUB-SYSTEMS

## Integrated functions by experienced specialists

For many years Novintec has grown its capability to integrate and interface complex and critical functions along with its technical know-how. This evolution makes Novintec a preferred partner for hydraulic equipment on board the aircraft, especially in the most critical applications.

With strong core competencies in filtration and in components design, Novintec is able to support its Customers on an expanded scope from both a technical viewpoint and in terms of bespoke services.

To maintain and develop its position Novintec continuously invests in research and development as well as in its ability to acquire new knowledge and know-how through a strong Design Office.



*Main Hydraulic Supply (MHS) for Helicopters*



*Hydraulic Tank for flight controls*



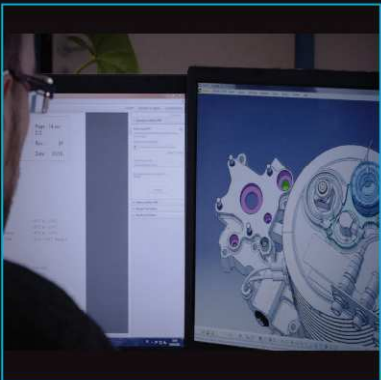
*Exploded view of MHS controls*

# DESIGN AND PRODUCTION

## Agility, Quality, Just in Time



*Modern 5 axis machining center*



*CAD simulation and calculation*



*Hydraulic Test Bench to perform tests before delivery*

In order to optimize Customer satisfaction Novintec maintains strong and close relationships between all its departments from engineering, industrialization, quality, manufacturing and throughout the supply chain. This proximity allows Novintec to remain nimble and responsive.

Novintec engineering department is equipped with all the specific tools required in fluid management including :

- CATIA V5,
- AMESIM,
- Other software applications.

In product development and during series production Novintec uses modern tools which are continuously updated :

- 5 axis machining centre,
- Automatic hydraulic test rigs for all type of fluids (including a skydrol test rig up to 350 bar at 350L/min, ...),
- Clean room,
- Particle counting equipment,
- Other bespoke equipment.

For all its activities Novintec is certified :

- EN 9100,
- PART 21G,
- PART/FAR 145.

In order to continuously improve its performance as well as the service provided to its Customers Novintec is engaged in a continuous lean improvement plan involving all departments and all levels of the Company including senior management.





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