The air you breathe...

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Cabin Pressurization Systems
Ventilation Systems
Flight Systems
Commercial and Military Customer Support
Located in the heart of Europe, NORD-MICRO in Frankfurt / Germany is a well established player in the global aerospace business. Near the Frankfurt International Airport we quickly and reliably serve hundreds of customers around the globe.

**Who we are**

NORD-MICRO teams work with full dedication on our role as a first or second tier supplier to the total satisfaction of our clients. We are committed to continuously enhance our performance supporting our customers. We will meet the needs of the market place today, tomorrow and in the future.

NORD-MICRO, a European business unit of United Technologies’ Hamilton Sundstrand Corporation, represented by its teams in Engineering, Manufacturing and Customer Support, is serving the world’s major commercial aircraft programmes.

**What we do**

NORD-MICRO’s plant is characterized by most advanced technological processes. The high standards our company sets in its design, manufacturing and quality assurance activities guarantee a long, trouble-free service life of its components, utmost system safety and the economic benefits arising from this. This is why the world’s leading aircraft manufacturers trust us.

**Our Mission**

NORD-MICRO products support the following platforms:

- **Airbus** A320 Family, A330/340, A350 XWB, A380
- **Boeing** 737 Family, 777, 787 Dreamliner
- **Embraer** E-Jet Family
- **Mitsubishi** Regional Jet Family
- **Eurofighter** Typhoon
- **Eurocopter** Tiger

**Platforms**
Over the last decade NORD-MICRO has developed into a well recognized “Low Pressure” System Supplier for the ATA21 Chapter “Air Conditioning and Pressurization”. Increased Passenger & Crew Comfort, Aircraft System Protection as well as Cabin & Cargo Compartment Ventilation are key functions of the “Low Pressure” System with components installed virtually “from nose to tail” in the aircraft.

NORD-MICRO increases comfort with systems consequently aimed to improve Cabin Air quality in various sections of the aircraft.

Additional local systems like the Humidification System offer the possibility to increase separately the humidity in sections like Flight Deck, Crew Rest Compartments and the Cabin.

NORD-MICRO provides Passenger Comfort with leading Cabin Pressurization Systems, Ventilation Systems including Humidification and Dry Air Generation.

High sensitive aircraft systems like the Avionics equipment and the Inflight Entertainment equipment are protected by NORD-MICRO’s advanced specific Ventilation Subsystems. By optimization of the overall architecture and using synergies among the various subsystems, NORD-MICRO can offer maximum value to the business of our customers.
Having first started in the 1980ies, NORD-MICRO has developed into the global market leader in cabin pressure control systems for large commercial transport aircraft. The company develops advanced cabin pressure control systems in its own laboratories, using aerodynamically optimized components, highly integrated electronic modules, and intelligent software solutions. The company’s more than 45 years of experience in designing, manufacturing, and servicing civilian and military aircraft systems have turned into an impressive wealth of engineering know-how.

**Cabin Pressure Control System**

NORD-MICRO’s cabin pressure control systems ensure highest level of operational and aircraft dispatch reliability and feature powerful microcontrollers, highly integrated circuits and programmable logic devices. Hardware and software have been developed in accordance with international standards and tested to most recent methods. System design and integration are preceded by extensive simulations of the system functions and their interaction with aircraft interfaces. The system’s fully automatic operation and straightforward, logical structure reduce the work load for the crew in the cockpit. The user-friendly system design ensures maximum ease of operation. NORD-MICRO’s cabin pressure control systems provide safety, high reliability, low operating costs, low crew work load and high passenger comfort. First-class references for first-class products.

**Trust**

Passengers and crews place confidence in your airplanes. Our systems justify this trust by using intelligent software that provides optimum cabin pressure control based on numerous aircraft parameters. Individually controlled outflow valves can even optimize the ventilation of cabin air based on cabin layout and passenger load. In this way, passengers experience increased comfort in each phase of the flight, short-haul or long-haul. And you will achieve increased customer satisfaction.

**Experience**

More than 10,000 Cabin Pressurization Systems have been delivered and installed since then and accumulate today 40 million annual operational flight hours. 60 Percent of today’s commercial wide body fleet fly with NORD-MICRO systems.

**Ease**

NORD-MICRO’s cabin pressure control systems ensure highest level of operational and aircraft dispatch reliability and feature powerful microcontrollers, highly integrated circuits and programmable logic devices. Hardware and software have been developed in accordance with international standards and tested to most recent methods. System design and integration are preceded by extensive simulations of the system functions and their interaction with aircraft interfaces. The system’s fully automatic operation and straightforward, logical structure reduce the work load for the crew in the cockpit. The user-friendly system design ensures maximum ease of operation. NORD-MICRO’s cabin pressure control systems provide safety, high reliability, low operating costs, low crew work load and high passenger comfort. First-class references for first-class products.
Nord-Micro develops, supplies and supports complex Ventilation Systems allowing Air Distribution, Ventilation, Cooling, Heating, Extraction and Humidification and Dry Air Generation in various aircraft sections.

The company develops digital controllers which use intelligent software to control and monitor air quantities and temperatures based on numerous parameters, and they ensure recirculation of the cabin air. Depending on the requirements Nord-Micro has also the skills to provide software for modern standardized avionics systems.

NORD-MICRO runs a unique state-of-the-art Ventilation System test bench. For system integration this impressive facility offers all integration and validation/verification needs for the whole Ventilation System.

The computers feature powerful, state-of-the-art microcontrollers and electronic modules. The software has been developed in accordance with international standards and tested using most recent methods. It comprises substantial BITE and therefore ensures highest level of operational reliability.

All system components such as valves, fans, heaters, actuators, air filters and sensors are directly controlled and monitored. This guarantees highly automatic and trouble-free operation under all flight conditions.

In cooperation with CTT Systems AB

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Today, Nord-Micro deals directly with more than 500 airlines, MRO organisations and brokers around the globe.

All fields of customer service – from A as in AoG services to Z as in zero maintenance – are supported for every device developed and produced by Nord-Micro.

Our primary aim is to exceed our customers’ expectations. We can apply our knowledge and experience as systems supplier and original equipment manufacturer to reply to customer enquiries quickly and in detail. This knowledge, combined with the facilities of a modern repair station, allows us to inspect any device at the required level of detail in order to confirm or exclude a fault.

Modern equipment and highly qualified staff guarantee ideal technical supervision, continually updated handbooks, customer-oriented training programmes and a swift, reliable and global support system.

Nord-Micro can draw from half a century of experience in the field of servicing and repairing components.

Our personnel have specialist know-how in all fields of electrical engineering and electronics, mechanics, pneumatics and hydraulics. We guarantee the highest degree of quality and simple application of our serviced equipment. As an original equipment manufacturer, we apply our deep-rooted and detailed know-how and a modern and effective quality management system to ensure exceptional care in handling all customer enquiries and repair processes.

permanent efforts to improve reliability and reduce maintenance costs also contribute to optimizing our customers’ efficiency. Flexible adapted repair and spare part provision contracts are ideally suited to our customers’ requirements.

Our strengths are fast reaction times, a unique flexibility and the constant search for ideal solutions for our customers.

Technical Publications
Spares
Overhaul and Repair
Technical Support
AoG Service
Management
Effective Management
Worldwide Customer Support
Customer Satisfaction
Qualification
Effective Management
Worldwide Customer Support
Customer Satisfaction
Qualification
After being established as an overhaul & repair company NORD-MICRO started to develop components for military aircraft in the early 1970s.

NORD-MICRO can utilize military overhaul and repair experience gained in more than 45 years. Today, NORD-MICRO is one of the largest servicing and repair companies for military aviation components in Germany working for national and international customers.

Beginning with the development of an air intake control unit NORD-MICRO developed a family of air data computers based on high precision vibrating cylinder pressure sensors and being operated in a number of European fighter aircraft. NORD-MICRO is producing pressure sensor components for civil and military engine control systems. At the high end of air data computation NORD-MICRO developed in a cooperative programme a miniature flush pressure sensing demonstrator for high angle of attack flying.

In a European work share program we are the prime contractor for development and manufacturing of a military helicopter flight control system providing basic stabilization and a variety of autopilot- and mission related modes. Fault tolerance and highest possible availability are essential for reduction of the pilot’s workload.

Highest quality and customer satisfaction is achieved by an experienced and highly skilled team and steadily modernized state-of-the-art test stands and operating resources including high pressure and test fuel supply.