



N3 Engine Overhaul Services

Joint venture between Lufthansa Technik and Rolls-Royce plc

## Press Release

### **N3 Engine Overhaul Services at the ILA 2018 for the first time with its own stand**

- **Joint venture from Lufthansa Technik and Rolls-Royce in operation for the past eleven years in Arnstadt (Thuringia)**
- **European competence center for the overhaul and repair of Rolls-Royce Trent-series engines**
- **Authorized since 2016 for the maintenance of the Rolls-Royce Trent XWB**
- **On a growth course: Increase in capacity as well as personnel, expansion of the component-repair division**
- **Technical vocational training is one of the best in the industry**

**Arnstadt, April 23<sup>th</sup>, 2018.** N3 Engine Overhaul Services (N3), the joint venture of Lufthansa Technik AG and Rolls-Royce plc. for the maintenance and repair of Rolls-Royce Trent-series engines, will present itself for the first time in the BDLI common area at the trade event ILA Berlin Innovation and Leadership in Aerospace (April 25<sup>th</sup> to April 29<sup>th</sup> 2018) in Hall 2 (stand 217).

The German-British company went into operation in 2007 in Arnstadt, Thuringia, and since then has overhauled more than 930 engines from the Rolls-Royce series Trent 500, Trent 700, and Trent 900. New to the product portfolio since the end of 2016 is the Rolls-Royce Trent XWB, the engine of the A350. The first scheduled dispatch of a motor at N3 is planned for April 2018. After a roughly 20-percent increase in capacity in 2017 (121 overhauled engines), this year an additional increase in maintenance by up to a quarter (approx. 150 engines) is expected. Alongside its growing core business in engine overhauling, N3 is continuing to expand its repair division for engine components. As a strategic partner of Rolls-Royce, the company is authorized to carry out several so-called “source-controlled repairs”; additional repair procedures are in the beginning



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stages. N3 is currently investing in the equipment and modernization of its machines and facilities.

There is also a growing trajectory in the development of the number of employees: currently 670 employees as well as apprentices work at N3. In recent months, 70 new workers have been employed. The company continues to search for skilled workers and offers apprenticeships. Through the continuous training of aircraft mechanics in engine technology, since the beginning of operation, N3 has, for the most part, met its own demand for skilled workers. In September 2018, the eleventh year of the technical apprenticeship of aircraft mechanics specializing in engine technology will begin. The graduates of the technical vocational training are among the best in their field. Along with aircraft mechanics, skilled workers for storage logistics have participated in apprenticeships since September 2016. Interested skilled workers and teenagers can learn more about such career opportunities at the N3 trade stand (Hall 2, 217) and in the Career Center (April 27<sup>th</sup> to 29<sup>th</sup>, 2018, Hall 1, stand 309).

Nicole Fehr, Director and General Manager at N3 Engine Overhaul Services since 2018, emphasizes: “N3 convinces through reliable delivery, excellent quality, and an exceptionally trained workforce.” In addition, N3 is one of the most lucrative companies located at the industrial park “Erfurter Kreuz”, one of the most dynamic economic areas in Thuringia. Also, the company is an important component of the state marketing efforts of the Free State of Thuringia ([www.das-ist-thueringen.de](http://www.das-ist-thueringen.de)).

### Press Contact

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## Company profile

### British-German success story in Thuringia, Germany

**Arnstadt, April 2018.** N3 Engine Overhaul Services (N3) is the European technological centre for the servicing and repair of Rolls-Royce Trent 500, Trent 700, Trent 900 and Trent XWB engines and their components. They serve as engines on Airbus models A340, A330 and A380, currently the largest passenger aircrafts in the world, and the A350, the world's latest and most environmentally friendly long-haul aircraft. As one of the first to settle on the outskirts of Arnstadt, N3 has been active in the Erfurter Kreuz industrial area since 2007. The Thuringian company is integrated in the global Rolls-Royce network that consists of operations in Hong Kong, Singapore and Great Britain (Derby). N3 quickly earned a good reputation in the aviation industry; particularly in terms of quality, flexibility and delivery reliability. The company serves more than 40 international airlines from all over the world. It is also one of the most profitable companies in the region. N3's defined objective is to become the leading centre of excellence in the global Rolls-Royce network for the maintenance and repair of Rolls-Royce Trent 500, Trent 700, Trent 900 and Trent XWB engines and their components.

### Engine overhauling using the latest methods

Since 2007, more than 930 engines have been dismantled, inspected, repaired and tested at the company. Currently, 150 to 200 engines can be processed per year. The factory is equipped with the latest facilities e.g. for cleaning components, for thermal coating and for machining and balancing. The engine test station is one of the most advanced and powerful at any overhauling facility in the world. N3 continually expands its capacity for repair. Thus the Thuringian company has Rolls-Royce certification for special repairs known as "source controlled repairs". For these procedures, MRO companies (Maintenance, Repair and Overhaul) require certification from Rolls-Royce to be able to conduct these repairs autonomously.

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### **Unique to N3: vertical stripping and building**

In order to achieve the best results when overhauling engines, N3 uses vertical stripping and building. Engines are disassembled into individual assemblies while standing vertically and then reassembled in the same way. This is very efficient and non-destructive.

### **Attractive employer and one of the best training companies in the region**

N3's settlement in Erfurter Kreuz, currently the largest industrial area in Thuringia, gave the region an enormous boost. After N3 settled on a location, other renowned national and international companies decided to build factories in the dynamic region.

N3 offers modern and attractive working conditions to its highly qualified workers. Occupational safety and health protection are given top priority. The workforce has more than doubled from 270 when operations began to the 680 employees there are now. The Thuringian aviation company has provided itself with well-educated young talent since 2007. In September 2017, the tenth technical training cohort for aircraft mechanics in the field of engine technology began. The apprentices learn about the complete process of maintaining, servicing and repairing engines. Within the scope of the operation of the different specialist departments, the working steps e.g. disassembly, inspection, repair, assembly and test of assemblies and engine parts, are conveyed with due regard to the general aviation-specific conditions. Graduates of the technical apprenticeship are among the best in their field. In 2014, the prize for Germany's best aircraft mechanics was awarded to an N3 graduate for the third time. In addition to aircraft mechanics, warehouse logistics specialists are being trained for the first time since September 2016. Due to the special aviation-specific requirements at N3, training on these logistical planning and organisational processes should be encouraged. The company already supports middle-school students in their professional orientation. Students are able to take part in a week long internship at N3 during the autumn and winter holidays.

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<b>Key corporate figures</b>	
Operational start-up	5 April 2007
Joint venture	Lufthansa Technik AG and Rolls-Royce plc.
Corporate mission	Servicing and repair of aircraft engines and components
Portfolio	Rolls-Royce Trent 500, 700, 900 and XWB engines and their components. They serve as engines on the Airbus A340, A330, A380 and A350 models. Including Trent 800, Trent 1000 and RB211-535 in the field of component repair.
Investment	140 million euros (As of: December 2017)
Location	Arnstadt, Erfurter Kreuz industrial area, Germany
Size of the premises	12 ha
Factory capacity	150 - 200 engines per year
Number of overhauled engines	930 (April 2018)
Number of employees	670 (April 2018)
Job training	Aircraft mechanics/in the field of engine technology Warehouse logistics specialist
Number of apprentices	34 (April 2018)
Number of trained specialists Aircraft mechanics/in the field of engine technology	68
Number of trained specialists Industrial clerks	8

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## N3 Engine Overhaul Services – company history milestones

- 2003 **Foundation** of the company and location search
- 2004 **Location selection**
- 2005 **Planning phase**  
 Start of the qualification programme  
 Building permit issuance
- 2006 **Construction phase**  
 Ground-breaking ceremony in February  
 Topping out ceremony in September
- 2007 Moving in to the factory  
**Trent 500 operational approval**  
**Operational start-up**  
 Start of commercial training
- 2008 **Trent 700 operational approval**  
 DIN EN ISO 14001 certification  
 Joining the Thuringia Sustainability Agreement  
 Start of technical training
- 2009 Overhauling of the 100th engine
- 2010 **Trent 900 operational approval**
- 2011 Overhauling of the 250th engine  
 AEO F certificate
- 2012 **5 years in operation**
- 2013 Roll-out of the 500th overhauled engine
- 2014 For the third time, the best German graduate  
 aircraft mechanic in the field of aviation technology comes from Arnstadt
- 2015 Overhauling of the 100th Trent 900 engine
- 2016 Start of logistical training for warehouse logistics specialists  
**Trent XWB operational approval**
- 2017 10 years in operation (5 April)



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