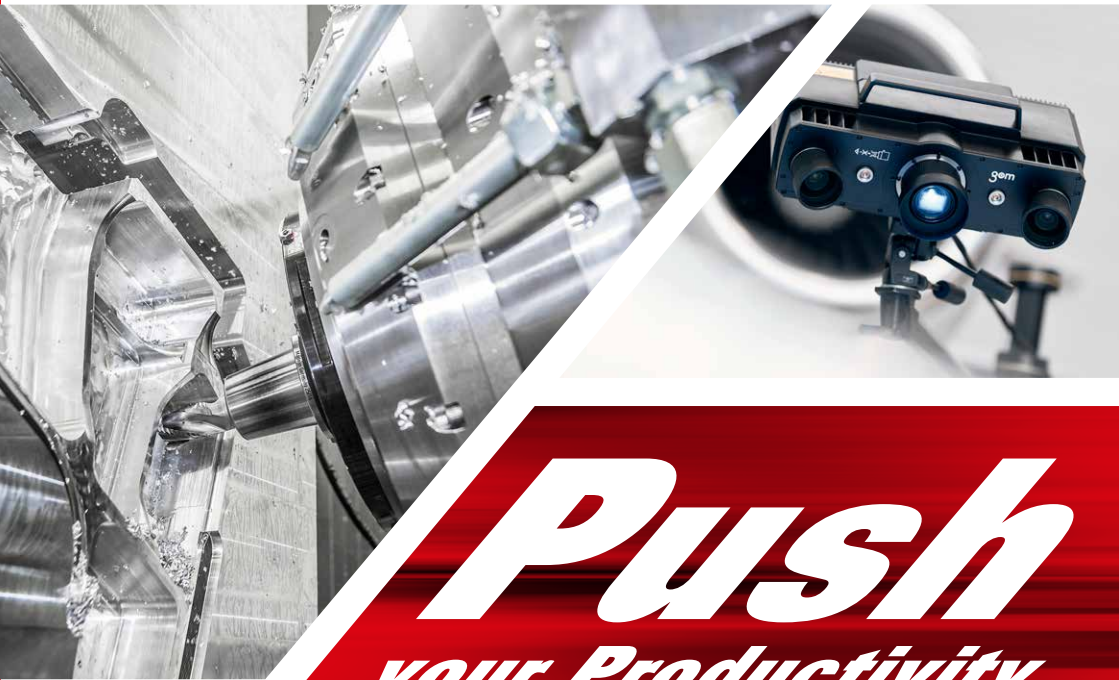


**starrag**

**ZEISS**

Seeing beyond

Invitation  
Aerospace Technology Days  
5<sup>th</sup> – 7<sup>th</sup> July 2022



***Push***  
***your Productivity***

Starrag  
Rorschacherberg  
Switzerland



## Our Event-Highlights:



**Starrag Station 1**

### **Casing / STC**

Starrag offers the broadest range of machines covering the full range of aero engine casings. Demonstrating unique technological solutions enabling complete automated mill-turning of all external and internal features under process stable conditions.



**Starrag Station 2**

### **Highlight Aluminium Aerostructures / Ecospeed F1540**

The Ecospeed name has become a generic trademark within the aerospace industry for «High performance» machining of complex aero-structures, pushing technology and competitiveness to new limits.

Demonstrating the complete process chain from raw material to the measured airframe structure.

3 days of knowledge transfer in the fields of milling, automation, measurement and inspection of aerospace components.

**Starrag Station 3**



**Blade in One Go / LX 021**

Fully automated manless production of compressor blades in multiple set-ups, machining from bar stock or forgings to the finished blade with lowest cost per part.

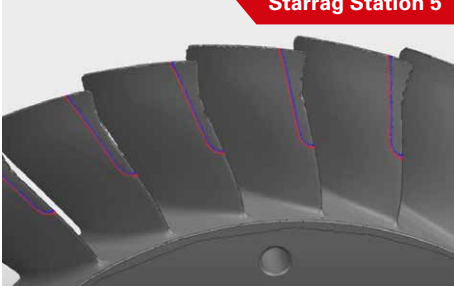
**Starrag Station 4**



**Aerospace alloy structural components / STC 1250**

High performance machining of complex freeform structural components in aerospace alloys, new developments in improving tool life, reducing tooling costs and overall process stability.

**Starrag Station 5**



**Automated Blisk Repair**

TTL, the Experts in Adaptive Machining and Manufacture & Repair technology for Gas Turbine technology, are thrilled to showcase the latest blisk repair capabilities.

**Starrag Station 6**



**Starrag Services / Service Plus**

Everything you need to know about running your Starrag machine 24/7 @ 95% technical availability at a fixed annual cost. Spindle service and maintenance. Customized training keeping your skilled personnel at the forefront of new technological developments.

**ZEISS Station 7**



**Fast & efficient measurement of aerostructure parts**

Using automated optical 3D metrology to optimize your measurement and inspection of aerostructure parts.

**ZEISS Station 8**



**New fast tactile measurement solution for airfoil components**

Demonstrating new fast tactile technology for the specialized measurement of blades, reducing measurement time significantly.

**ZEISS Station 9**



**Accelerate decision-making in microscopic analyses**

Connected microscopy speeds up your routine tasks and workflows in metallography, particle contamination, and optical inspection.

**ZEISS Station 10**



**Automated Quality Control for maximum productivity**

Unleash hidden efficiencies of your processes by integrating quality assurance into your production.

**ZEISS Station 11**



**Software Solutions for Aero Experts**

Connected and industry dedicated software tools that enable right first-time manufacturing.

**ZEISS Station 12**



**The right fixture for your application**

Dedicated aerospace application fixtures for highest precision and repeatability.

# Program «Push your Productivity»

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## Customer Day 1

**Tuesday 5<sup>th</sup> July**

**Start 10 am**

Welcome and opening speech

Customer day – part 1

Guided program Stations 1 to 12

Evening social program

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## Customer Day 2

**Wednesday 6<sup>th</sup> July**

**Start 10 am**

Customer day – part 2

Guided program Stations 1 to 12

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## ZEISS Quality Day

**Thursday 7<sup>th</sup> July**

**Start 9 am**

Demonstrations and presentations

Firsthand insights from ZEISS experts

#HandsOnMetrology

Guided Aerospace Museum visit

End approx. 3 pm

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Register online now:

[www.starrag.com/ttd](http://www.starrag.com/ttd)

Your contact for  
more information:

**Rainer Hungerbühler**

+41 76 365 64 01

[techday@starrag.com](mailto:techday@starrag.com)



# Keynote speech

## Wednesday 6<sup>th</sup>

### **Domenico D'Agostino**

Industrial Strategies and Product  
Industrialization Manager

### **Andrea Zangarini**

Quality Product Manager

Leonardo Helicopter Division, Italy



### **Leonardo develops multi-domain capabilities in the Aerospace, Defence and Security sector.**

The company plays a prominent role in major international strategic programmes and is a trusted technological partner of governments, defence agencies, institutions and enterprises. Innovation, continuous research, digital manufacturing and sustainability are the cornerstones of Leonardo's business worldwide.



## ZEISS Industrial Quality Solutions

### Your partner for multidimensional industrial metrology

ZEISS Industrial Quality Solutions is a world leader in quality assurance and inspection. The range of solutions includes coordinate measuring machines, optical 3D scanning, testing, computer tomography and microscopy.

ZEISS combines trusted hardware with powerful software to inspect, analyze and evaluate quality data.

All key components, such as controllers, software, measuring systems and sensors are developed and manufactured in-house. To ensure seamless integration into customers quality assurance processes, ZEISS has strong expertise in loading and automation systems, and offers complete turnkey solutions.



High-performance metalworking fluids, CNC process optimization, and support services.



The standard for CNC machine simulation for traditional milling and turning machines.



FM-Briquetting systems an investment which has paid off.



Quality wins along the complete value chain of tool holding technology.



Smart coolant management.



Mass finishing units and process technology.



Boosting productivity in CNC production.



Adaptive manufacturing driven by experts.

[www.starrag.com](http://www.starrag.com)

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