

## **Erster Spatenstich bei MTU Maintenance Zhuhai für neuen Standort Jinwan**

Bei der MTU Maintenance Zhuhai vollzogen die Joint Venture-Partner MTU Aero Engines und China Southern Airline Company Ltd. heute den ersten Spatenstich für den Bau eines neuen Standorts in Jinwan zur Demontage, Montage und Prüfung von Triebwerken. Das neue Werk wird eine Kapazität von zunächst 260 Instandhaltungen haben, sich auf Pratt & Whitney PW1100G-JM- und V2500-Triebwerke konzentrieren und 2024 in Betrieb gehen. Der Standort wird unter dem Dach der MTU Maintenance Zhuhai sowie deren Lizenzen und Genehmigungen laufen.

„Es ist uns eine Ehre, diesen Meilenstein heute, am ersten Tag der Zhuhai Airshow, mit hochrangigen Gästen zu feiern“, erklärt Li Tongbin, Chairman der MTU Maintenance Zhuhai. „Dieser Spatenstich symbolisiert den Beginn der nächsten Phase unserer Zusammenarbeit und Partnerschaft mit der MTU und stellt die Weichen für weiteres Wachstum und Erfolg.“

Der Bau auf dem 150.000 Quadratmeter großen Grundstück beginnt mit einer 65.000 lbf-Testzelle. „Wir freuen uns, dass der erste Spatenstich heute pünktlich erfolgt“, sagt Michael Schreyögg, Chief Program Officer der MTU Aero Engines. „Wir bei der MTU glauben an die Zukunft der Luftfahrtindustrie und an das Wachstum und die Stärke des Marktes für Triebwerke für Kurz- und Mittelstreckenflugzeuge in Asien. Deshalb halten wir an unserem Netzwerkausbau fest und treiben dieses Projekt mit viel Elan voran.“

Die MTU Maintenance Zhuhai plant außerdem den Bau eines Ausbildungszentrums an ihrem ursprünglichen Standort in Zhuhai, in dem ab 2023 jedes Jahr bis zu 150 Fachkräfte und Studenten ausgebildet werden können. „Mit diesem Zentrum investieren wir in unser wichtigstes Kapital, unsere Mitarbeiterinnen und Mitarbeiter“, hierzu Jaap Beijer, President und CEO der MTU Maintenance Zhuhai. „Wir werden in der Lage sein, unsere ehrgeizigen Pläne zum Personalbedarf umzusetzen und die von uns geforderte qualitativ hochwertige Ausbildung zu gewährleisten.“ Nach der Fertigstellung wird der Standort Jinwan auf rund 600 qualifizierte Mitarbeiterinnen und Mitarbeiter anwachsen. Bei der MTU Maintenance Zhuhai arbeiten derzeit rund 1.100 qualifizierte Triebwerksexpert:innen.

Die MTU Maintenance Zhuhai und der Standort Jinwan werden von der Nähe zu Hongkong, Guangzhou, Shenzhen und Macao profitieren. Serviceteams können in kürzester Zeit zu den Kunden in der Region entsandt werden. Die MTU Maintenance Zhuhai verfügt über hochmoderne Anlagen und führt 80 Prozent der Teilereparaturen selbst durch. Neben China Southern betreut die MTU Maintenance Zhuhai über 90 Kunden aus China, Asien und der ganzen Welt, darunter International Aero Engines, Saudia Airlines und All Nippon Airways sowie die chinesischen Fluggesellschaften Shenzhen Airlines, Xiamen Airlines und Hainan Airlines. Das neue Geschäft wird auch MRO-Leistungen für Drittkunden anbieten.

Quelle:

MTU Press Release 28 September 2021

### **Airbus delivers first of 60 A220s to Air France**

Air France has received its first A220-300 from an order for 60 aircraft of the type, the largest A220 order from a European carrier. The aircraft was delivered from Airbus' final assembly line in Mirabel, Quebec, Canada and officially unveiled to the public during a ceremony held at Paris Charles-De-Gaulle Airport.

The A220 is the most efficient and flexible aircraft in the 100 to 150 seat market segment today. The renewal of the Air France single-aisle fleet with this latest generation aircraft will increase efficiency along with customer comfort and support Air France to meet its environmental goals and sustainability objectives.

The first Air France A220-300 will be operated on its medium-haul network from the 2021 winter season. Currently, Air France operates a fleet of 136 Airbus aircraft. Air France is also renewing its long-haul fleet, and has already taken delivery of 11 A350s out of an order of 38.

The Air France A220-300 cabin is configured in a single-class layout to comfortably welcome 148 passengers. Offering superior single-aisle comfort, with the widest leather seats, largest windows and up to 20% more overhead stowage space per passenger, the Air France A220 also features full WiFi connectivity throughout the cabin and two USB sockets at each passenger seat.

The A220 is the only aircraft purpose-built for the 100-150 seat market and brings together state-of-the-art aerodynamics, advanced materials and Pratt & Whitney's latest-generation geared turbofan engines. With a range of up to 3,450 nm (6,390 km), the A220 gives airlines added operational flexibility. The A220 delivers up to 25% lower fuel burn and CO2 emissions per seat compared to previous generation aircraft, and 50% lower NOx emissions than industry standards. In addition, the aircraft noise footprint is reduced by 50% compared to previous generation aircraft - making the A220 a good neighbour around airports.

As of the end of August, over 170 A220s have been delivered to 11 operators worldwide.

Quelle:

Airbus Press Release 29 September 2021

### **Boeing Awarded Contract for Five P-8A Aircraft for Germany**

The U.S. Navy today awarded Boeing [NYSE: BA] a production contract for five P-8A Poseidon aircraft for Germany. First deliveries are slated to begin in 2024 when the P-8A Poseidon will eventually replace Germany's fleet of P-3C Orion aircraft.

"We're pleased to have finalized this sale to Germany and to expand our footprint in-country by bringing the P-8A and its unique multi-mission capabilities to the German Navy," said Michael Hostetter, vice president, Boeing Defense, Space & Security, Germany. "The P-8 will ensure the German Navy's ability to perform long-range maritime surveillance missions and will play a pivotal role in the region by leveraging existing infrastructure in Europe and full interoperability with NATO's most advanced assets."

German industry is a critical partner with the P-8A Poseidon program. By working with local partners, Boeing will provide support, training and maintenance solutions that will bring the highest operational availability to fulfill the German Navy's missions. On June 17, Boeing signed agreements with ESG Elektroniksystem-und Logistik-GmbH and Lufthansa Technik AG to collaborate in systems integration, training, and sustainment work. German companies

that currently supply parts for the P-8A include Aircraft Philipp Group GmbH, Aljo Aluminium-Bau Jonuscheit GmbH and Nord-Micro GmbH.

“With strategic agreements and industry partnerships already in place, we stand ready to deliver a robust sustainment package for the German Navy’s P-8A fleet,” said Dr. Michael Haidinger, president, Boeing Germany, Central & Eastern Europe, Benelux and Nordics.

“Together with the German Navy, the Federal Ministry of Defense and local industry, we will ensure maximum operational availability that will allow the German Navy to meet the full range of its maritime challenges.”

Deployed around the world with more than 135 aircraft in service, and over 350,000 collective mishap free flight hours, the P-8A will significantly advance Germany’s anti-submarine warfare; anti-surface warfare; intelligence, surveillance and reconnaissance; and search-and-rescue mission capabilities.

Germany is the eighth nation to have acquired the P-8A, joining the United States, Australia, India, the United Kingdom, Norway, Korea and New Zealand.

Quelle:

Boeing Press Release 28 September 2021

## **Lufthansa Trachtencrew hebt ab**

- *Hommage an das Münchner Oktoberfest*
- *In die USA und auf 40 Flügen in Deutschland und Europa*

Lufthansa hält an der Tradition der Trachtenflüge fest – auch wenn das Münchner Oktoberfest in diesem Jahr nicht stattfinden kann. Als Hommage an das weltberühmte Volksfest starten am 22. September neun Flugbegleiter:innen mit dem Airbus A350 von München nach Charlotte/USA, am 3. Oktober folgt Denver. Damit feiert Lufthansa zugleich ein besonderes Jubiläum: Vor 20 Jahren fand der erste Flug von Frankfurt nach Denver statt, vor fünf Jahren folgte München-Denver.

In diesem Jahr ist die Trachtencrew außerdem häufiger als in den vergangenen Jahren auch in Europa unterwegs: Bereits gestern flog sie von München nach Málaga, am 18. September, dem ursprünglichen Start der Münchner Wiesn, nach Funchal. Die Trachtencrew der Lufthansa CityLine startet zu rund 40 Flügen in Deutschland und Europa. Vom 20. September bis zum 3. Oktober fliegt sie unter anderem nach Kopenhagen, Dublin, Alicante und Sofia, außerdem nach Münster/Osnabrück, Bremen, Paderborn und Dresden.

Die Tracht der Lufthansa Crews wurde wie in den Vorjahren vom Münchner Trachtenspezialisten Angermaier entworfen. Das Wiesn-Dirndl der Flugbegleiterinnen ist dunkelblau mit silbergrauer Schürze, die Herren tragen eine kurze Lederhose mit dunkelblauer Weste im Stoff des Dirndls.

Für die Lufthansa Mitarbeitenden der Fluggastbetreuung im Terminal 2 ist es ebenfalls seit Jahren Tradition, während der Wiesnzeit die Fluggäste in Dirndl und Trachtenanzug zu begrüßen.

## **Bayerische Genüsse an Bord und in den Lufthansa Lounges**

An Bord der Business Class werden seit dem 15. September auf Europaverbindungen im Rahmen von Tasting Heimat besondere Münchner Schmankerln serviert: Je nach Flugdauer ein Snack mit einer Obatzter Creme und gegrillter Paprika bis zur warmen Speise, einem leicht geräucherten Schweinefilet oder gebratene Semmelknödel mit einem Pilz-Ragout. Immer mit dabei: Ein besonderes Brot, das zu dem jeweiligen Gericht passt.

Auch die Münchner Lufthansa Lounges knüpfen an die Tradition der Vorjahre an. In den Senator und Business Lounges können Passagiere zwischen typischen bayerischen Gerichten wie Hendlhaxn mit Sauerkraut oder Bayerischen Kartoffelsalat wählen. In der festlich dekorierten First Class Lounge wird sogar ein kleines Wiesn Menü kreiert.

## **Lange Tradition**

Die Tradition der Trachtenflüge ist bei Lufthansa ebenso lang wie erfolgreich. Bereits 1957 gab es erste Flüge in Tracht und schon damals begeisterten sie Lufthansa Passagiere weltweit. 2006 wurde die Idee wieder aufgegriffen, damals ging der Erstflug nach New York. Seitdem wurden 25 internationale Destinationen von den Lufthansa Trachtencrews angefliegen, von China über Japan und Indien bis in die USA. Hinzu kamen Ziele in ganz Europa.

Quelle:

Lufthansa Press Release 16 September 2021

## **Diehl liefert Penetrator-Gefechtsköpfe**

***Am 29.07.2021 erhielt Diehl Defence vom Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr (BAAINBw) den Auftrag zur Lieferung von Mk-83-Trojan-Improved-Penetrator(TIP)-Gefechtsköpfen.***

Die Mk 83 TIP werden als Alternativgefechtsköpfe für die bereits in der Luftwaffe eingeführte und am Eurofighter-Kampfflugzeug integrierte Präzisionsbewaffnung GBU-48 beschafft. Sie besteht aus dem Mk-83-Effektor, ausgestattet mit einem Enhanced-Paveway-II-Lenk-Bausatz zur präzisen Steuerung mittels halbaktivem Laser. Gegenüber dem Originalgefechtskopf Mk 83 zeichnet sich die TIP-Version durch die deutlich geringere Sprengwirkung bei gleichzeitig erheblich gesteigerter Penetrationsfähigkeit aus. Der allwetter- und abstandsfähige Luft-Boden-Effektor GBU-48 TIP ist sowohl für die Bekämpfung gehärteter Punkt- und Flächenzielen als auch für Operationen in urbanen Gelände oder für die Luftnahunterstützung eigener Truppen optimiert. Für die Luftwaffe reduziert die Kombination aus Präzision und geringer Sprengkraft das Risiko von Begleitschäden bei Einsätzen dieser Art.

Diehl Defence entwickelte TIP in Zusammenarbeit mit der technisch-mathematischen Studiengesellschaft in Bonn. Weiterhin zum Einsatz kommt der Multifunktionszünder FBM 21 von Junghans Defence.

Die Wirksamkeit von GBU-48 TIP konnte u. a. bei der Einsatzprüfung auf dem schwedischen Testgelände in Vidsel nachgewiesen werden. 2023 soll mit der Auslieferung der ersten Serieneinheiten begonnen werden. Zum Leistungsumfang gehören neben der Lieferung der Gefechtsköpfe auch die nötigen Ausbildungsmittel, die Durchführung von Sprengkampagnen und die Unterstützung der Zulassungsverfahren.

Quelle:

Diehl Press Release 15 September 2021

## **Rolls-Royce's all-electric 'Spirit of Innovation' takes to the skies for the first time**

We are pleased to announce the completion of the first flight of our all-electric 'Spirit of Innovation' aircraft. At 14:56 (BST) the plane took to the skies propelled by its powerful 400kW (500+hp) electric powertrain with the most power-dense battery pack ever assembled for an aircraft. This is another step towards the plane's world-record attempt and another milestone on the aviation industry's journey towards decarbonisation.

Warren East, CEO, Rolls-Royce, said: “The first flight of the ‘Spirit of Innovation’ is a great achievement for the ACCEL team and Rolls-Royce. We are focused on producing the technology breakthroughs society needs to decarbonise transport across air, land and sea, and capture the economic opportunity of the transition to net zero. This is not only about breaking a world record; the advanced battery and propulsion technology developed for this programme has exciting applications for the Urban Air Mobility market and can help make ‘jet zero’ a reality.”

Business Secretary Kwasi Kwarteng said: “The first flight of Rolls-Royce’s revolutionary Spirit of Innovation aircraft signals a huge step forward in the global transition to cleaner forms of flight. This achievement, and the records we hope will follow, shows the UK remains right at the forefront of aerospace innovation.

“By backing projects like this one, the Government is helping to drive forward the boundary pushing technologies that will leverage investment and unlock the cleaner, greener aircraft required to end our contribution to climate change.”

The aircraft took off from the UK Ministry of Defence’s Boscombe Down site, which is managed by QinetiQ and flew for approximately 15 minutes. The site has a long heritage of experimental flights and the first flight marks the beginning of an intense flight-testing phase in which we will be collecting valuable performance data on the aircraft’s electrical power and propulsion system. The ACCEL programme, short for ‘Accelerating the Electrification of Flight’ includes key partners YASA, the electric motor and controller manufacturer, and aviation start-up Electroflight. The ACCEL team have continued to innovate while adhering to the UK Government’s social distancing and other health guidelines.

Half of the project’s funding is provided by the Aerospace Technology Institute (ATI), in partnership with the Department for Business, Energy & Industrial Strategy and Innovate UK. In the run up to COP26, the ACCEL programme is further evidence of the UK’s position at the forefront of the zero-emission aircraft revolution.

“The first flight of the Spirit of Innovation demonstrates how innovative technology can provide solutions to some of the world’s biggest challenges,” said Gary Elliott, CEO, Aerospace Technology Institute. “The ATI is funding projects like ACCEL to help UK develop new capabilities and secure a lead in the technologies that will decarbonise aviation. We congratulate everyone who has worked on the ACCEL project to make the first flight a reality and look forward to the world speed record attempt which will capture the imagination of the public in the year that the UK hosts COP26.”

Rolls-Royce is offering our customers a complete electric propulsion system for their platform, whether that is an electric vertical takeoff and landing (eVTOL) or commuter aircraft. We will be using the technology from the ACCEL project and applying it to products for these exciting new markets. The characteristics that ‘air-taxis’ require from batteries are very similar to what is being developed for the ‘Spirit of Innovation’ so that it can reach speeds of 300+ MPH (480+ KMH) – which we are targeting in our world record attempt. In addition, Rolls-Royce and airframer Tecnam are currently working with Widerøe, the largest regional airline in Scandinavia, to deliver an all-electric passenger aircraft for the commuter market, which is planned to be ready for revenue service in 2026.

In June, we announced our pathway to net zero carbon emissions – a year on from joining the UN Race to Zero campaign – and the ‘Spirit of Innovation’ is one way in which we are helping decarbonise the critical parts of the global economy in which we operate. We are

committed to ensuring our new products will be compatible with net zero operation by 2030 and all our products will be compatible with net zero by 2050.

Quelle:

Rolls-Royce Press Release 15 September 2021

### **IABG errichtet Testfeld für autonomes Fahren**

Die IABG wird am Hauptsitz Ottobrunn ein Testfeld für intelligente Mobilitätskonzepte errichten. Hierzu haben die IABG, die Technische Universität München und das Bayerische Verkehrsministerium ein „Memorandum of Understanding“ unterzeichnet.

Auf der vom Bayerischen Verkehrsministerium geförderten und von der TUM wissenschaftlich genutzten Versuchsanlage soll das Zusammenwirken zukünftiger autonomer Verkehrssysteme untereinander, aber auch insbesondere mit sensortechnisch schwachen Verkehrsteilnehmern wie z.B. Fußgängern erprobt und Erkenntnisse für die Praxis gewonnen werden.

Quelle:

IABG Press Release 14 September 2021

### **HENSOLDT introduces new naval surveillance radar**

#### ***Three-dimensional multi-mission naval radar "Quadome" unveiled at DSEi***

At DSEi, the international defence and security exhibition in London, sensor solutions provider HENSOLDT is introducing its newly developed 'Quadome' radar system for naval surveillance and target acquisition. Equipped with the latest technology, 'Quadome' provides rapid response and high precision, at an excellent price-performance ratio.

The new-generation technology modernises one of HENSOLDT's key radar product lines and further enhances the group's extensive radar portfolio. "Quadome builds on the reputation and track record of HENSOLDT's naval tactical radar family, which has been very successful and has sold over 100 units over a 25-year timespan," says Peter Schlote, Head of the Radar and Naval Solutions Division.

#### **The Quadome advantage**

This innovative dual-mode, multi-mission surveillance radar will provide naval forces and maritime security authorities with unprecedented situational awareness and extremely short reaction times. Fast detection and tracking of small, slow and fast targets offers a reliable and stable air picture, with fast track initiation to support longer effector keep-out range. The new-generation radar features the latest gallium nitride (GaN)-based active electronically steered

antenna (AESA) technology and is software-defined, thus being a future-proof solution with an extended operational lifetime.

‘Quadome’ features two main operational modes to simplify operator interaction and to reduce operator workload. Surveillance mode is used for general surface and air surveillance while the self-defence mode is employed for high-threat situations and target engagement, with helicopter support continuously available in either mode.

‘Quadome’ is designed to maximise system performance, while minimising acquisition and life-cycle costs.

### **Target market**

‘Quadome’ is aimed at the global market for tactical naval radar systems, mainly targeting offshore patrol vessels (OPVs), corvettes, light frigates and support vessels.

Because of its compact size, relatively low mass and excellent price-performance ratio, the Quadome radar brings 3D air surveillance and air defence capabilities to vessels that may otherwise only been fitted with 2D target detection capability.

### **Operational benefits**

Designed for the modern operational needs of the naval domain, ‘Quadome’ offers robust capabilities for the detection and tracking of small surface targets and accurate 3D tracking of small, low-flying, fast-moving air targets, ensuring effective threat evaluation, weapon assignment and a longer effector “keep-out” range due to fast-track initiation.

“Quadome operates in C-Band for operationally advantageous reasons, offering the best compromise for small- and medium-sized vessels demanding a high-performance,” says Ryszard Bil, Head of Portfolio Development and Technical Director for HENSOLDT’s Radar and Naval Solutions Division.

### **Ownership benefits**

Clients will have the benefit of lower life-cycle costs, reduced user-effort due to lower workloads, training and skills and comprehensive modern support concepts.

The lifespan of the product is also significantly extended with new-generation, future-proof technology that offers the ability to add new features as new threats emerge, using the software-defined architecture.

### **Global expertise**

“Quadome is the culmination of HENSOLDT’s significant international footprint and global spectrum of expertise,” says Russell Gould, Head of International Business Development.

With the unique advantage of more than 50 years of radar innovation in Germany, the UK and South Africa, HENSOLDT is a truly global leader in the radar market.

Quelle:

HENSOLDT Press Release 15 September 2021

**PLA's Y-9 transport aircraft makes record-breaking 40 hours flight**



In a recent mission abroad, a Y-9 transport aircraft of the Chinese People's Liberation Army (PLA) broke several records by taking off and landing in an airfield in a high-elevation plateau region and flying for nearly 40 consecutive hours and more than 10,000 kilometers, China Central Television (CCTV) reported on Tuesday.

The aircraft is affiliated to an aviation regiment under the Air Force of the PLA Western Theater Command, which is also the first PLA unit that completed takeoff and landing operations with a domestically developed transport aircraft in an airport at an elevation above 2,438 meters, the report said.

Takeoff and landing in high-elevation plateau regions are affected by several factors, including challenging terrains and atmospheric pressure, which are very demanding of the aircraft's performances and the pilots' skills, CCTV said, noting that transport aircrafts require multiple pilots, also making cooperation challenging.

This proved that the Y-9 is a very sturdy and reliable aircraft and the pilots are well trained, a Beijing-based military expert who requested to remain anonymous told the Global Times on Tuesday.

A number of the PLA's special mission airplanes, including the KJ-500 early warning aircraft, Y-8 anti-submarine warfare aircraft and Y-8 electronic warfare aircraft, share the similar base platform as the Y-9 since they were all developed from the Y-8 transport aircraft, the expert pointed out.

This means the other special mission variants could have similar characteristics as the Y-9, the expert said.

Quelle:

Global Times 14 September 2021

### **PLA flotilla returns from far sea voyage, breaks island chains**

A naval flotilla belonging to the Chinese People's Liberation Army (PLA) that crossed multiple strategic sea lanes near Japan and sailed near US waters since August has reportedly returned to the East China Sea recently, displaying the PLA Navy's strong far sea capabilities that can break the so-called island chains that the US hoped to contain China, observers said on Wednesday.

The Japan Maritime Self-Defense Force on Saturday spotted a PLA Navy flotilla consisting of four warships, identified as the Type 055 destroyer Nanchang, Type 052D destroyer Guiyang, a Type 903A supply ship with the hull number of 903, and a surveillance ship with the hull number of 799, which then passed through the Osumi Strait and headed west into the East China Sea, according to a press release Japan's Ministry of Defense Joint Staff published on its website on Tuesday.

The PLA flotilla's return came after it entered the Sea of Japan from the Tsushima Strait on August 22, then crossed the Soya Strait and entered the Pacific Ocean on August 24. The US

Coast Guard later spotted the PLA warships in international waters off the coast of the Aleutian Islands in Alaska on August 29 and 30.

On Sunday, the Japanese Defense Ministry said it had detected a submarine on Friday off a southern Japanese island and it speculated that it was Chinese because a PLA Type 052D destroyer was also in near proximity. The latest Japanese press release said that the said Type 052D destroyer was actually the Guiyang, a part of the flotilla.

Having passed through a number of key strategic sea lanes near Japan and sailing for nearly a month in distant waters as far as close to the US, the flotilla led by China's most powerful destroyer, the Type 055, reflects the PLA Navy's rapid development in far sea operations, a Chinese military expert told the Global Times on Wednesday, requesting anonymity.

Another PLA flotilla consisted of three destroyers sailed through the Miyako Strait and then returned from the waters between Island of Taiwan and Yonaguni Island in early September, Japan's Ministry of Defense Joint Staff said in a separate press release.

It again showed that the so-called island chains that the US hoped would contain China, particularly the first island chain, are now broken, the expert said.

At a time shortly after the US rallied its deputies including Japan, the UK, Australia and India for joint exercises targeting China, the PLA Navy's exercises show that China is fully capable of safeguarding its national sovereignty and territorial integrity, fears no provocation, Shi Hong, the executive chief editor of the Chinese magazine Shipborne Weapons, told the Global Times in a previous interview.

Warships from the US have been making frequent incursions near China in the name of freedom of navigation, and the PLA voyages could be seen as a countermeasure and signal against the US actions of hegemony, Wei Dongxu, a Beijing-based military expert, told the Global Times.

With the rapid development of the PLA Navy, large Chinese warships will sail farther in the Pacific Ocean, Indian Ocean and the Atlantic, experts said.

Quelle:

Global Times 15 September 2021