

## **Engineering Customers using Microform for Long-term Archiving**

### **NASA**

NASA has made it mandatory to store all documents, Drawings and Research work materials to be stored in 2 different locations for absolute safety of their valuable records.

### **AIRBUS Finkenwerder**

In the factory in Hamburg-Finkenwerder, the final assembly of the model types A318, A319 and A321 takes place. Here, all construction drawings for the German part of the Airbus-programme are documented and archived long-term. One machine is exclusively employed for the long-term archivation of the new double-floor Large-Aircraft Airbus A380.

### **AIRBUS**

#### **Filton**

Airbus engineering is responsible for the all specific and non-specific aircraft design and for the interface with the manufacturing teams. Transnational design teams draw on the skills and experience of the most suitable specialists from all sites. Airbus engineering is organised around five main design offices: Filton (U.K.) design wings, fuel systems and landing gear.

### **BOEING**

In Seattle as well as in Everett the headquarters of Boeing are located. The model type 777 was the first Jet to be generated and managed 100% digitally. Long-term archivation is performed with MICROBOX DryCOM-Recorders, that are in operation 24 hours on 7 days a week.

### **Bombardier Aerospace**

Bombardier Aerospace offers the widest range of regional and business aircraft of any manufacturer. Its operation in Northern Ireland is a world-class centre of excellence for the design and manufacture of fuselages, engine nacelles and composite aircraft structures.

### **DML**

DML owns and operates Devonport Royal Dockyard in Plymouth, England and is the main support contractor to the Royal Navy. DML is also the largest private sector employer in the Plymouth region.

### **HDW**

The Howaldtswerke-Deutsche Werft AG (HDW) and their subsidiaries are building trading and naval ships which distinguish from others through leading technology. In order to archive these leading technologies over long periods of time, HDW employs MICROBOX CADMIC for the long term storage of the whole technical documentation of the ships on microfilm.

### **Blohm + Voss**

Blohm + Voss is a shipyard located in Hamburg, specialized on high-technology in the civil and military ship building. The focus lies on high-speed ships of the 100 – 200 m class. Blohm + Voss is consortial leader for numerous international projects.

### **MTU**

The MTU Friedrichshafen must be counted to the worldwide leading manufacturers of large Diesel engines and complete driving systems up to 9.000 kW (12.250 PS) for navigation, power supply, heavy load vehicles and trains. MTU has been archiving all their production plans and documentation for years and is storing them in their own high-security wing.

### **BAE Systems**

BAE SYSTEMS designs, manufactures and supports military aircraft, surface ships, submarines, space systems, radar, avionics, C4ISR, electronic systems, guided weapons and a range of other defence products.

### **BAW**

The Bundesanstalt für Wasserbau (BAW) is a superior Federal Authority within the business area of the Federal Ministry for Traffic, Building and Housing (BMVBW) to support the Federal for Traffic, Building and Housing and the water- and shipping administration of the Federal Government (WSV) for research concerning traffic on waterway – construction, examination and consulting. In the microfilm office in Ilmenau of the BAW, all construction data of the WSV are being filmed for long-term archivation. Therefore, this office employs MICROBOX COM-technology:

### **Krauss Maffei Wegmann**

KMW takes part in all significant military projects (vehicles). The most well-known amongst them is the war tank Leopard.

### **Martin Baker**

Martin Baker is the world leader in ejection seat and escape system technology. Martin Baker are the most experienced manufacturer of ejection seats and related equipment to safeguard the aviator throughout the escape, survival, location and recovery phases.

### **MAN Augsburg**

Amongst other areas, MAN is well-known as a manufacturer of large Diesel engines (ships and stations). Furthermore, they construct and build rotating printing machines for newspapers, and one business area „New technologies“ is part of the „Neue Technologien“ Ariane-Programme.

### **MAN München**

MAN in Munich stores all their construction data for the area utility vehicles (busses and trucks) longterm.

### **National Archive of Singapore**

The National Archive of Singapore is the largest State Archive of Asia. Here, all information regarding the state are stored for the next centuries.

### **Bizerba Balingen**

Manufacturer for scales and cutting machines for the food industry. All production-, manufacturing and tool-drawings are stored long-term in Balingen.

### **Molins**

Molins, the international specialist engineers, manufacture specialist machinery for the tobacco, food processing and fast moving consumer goods markets. Molins chose a CADMIC Microfilm to archive all engineering drawings.

### **eurocopter**

This currently quite successful company manufactures helicopters for military and civil use. A conversion from presently wet- to Microform systems has been planned for 2003.

### **MBDA**

MBDA is Europe's leading Missile Systems company. It is an international company with 10,000 employees in the UK, France and Italy which has an outstanding reputation for delivering high technology products to support the national defence services of over 70 countries.

### **Krauss Maffei Kunststofftechnik**

Production drawings for plastic machines (plant equipment) are stored long-term in addition to a digital archive.

### **ZF Friedrichshafen**

ZF is a worldwide leading company for automotive supplies regarding the driving- and under carriage technology for utility and off-road vehicles. With a total turnover of more than 9 billion Euros and more than 53.000 employees in 119 manufacturing plants in 25 countries, ZF is on rank 15 amongst all international automotive suppliers.

### **Neue Zürcher Zeitung**

The AG for the Neue Zürcher Zeitung does not only issue the «Neue Zürcher Zeitung» as one of the oldest newspapers, but is also active in numerous other areas (World Wide Web, TVProductions etc.). All issues of the NZZ are stored daily on MICROBOX POLYCOM.

### **ABB**

ABB in Germany realizes a turnover of 3,1 billion Euros with 16.600 employees. ABB is the leading company for power- and automation technology. The business area of automation offers customers from the following branches products, solutions and services: Automotive industry, Chemical Industry, consumer's goods, electronics, Life Science-Industry, Manufacturing Industry, Naval Industry, Metal processing Industry, Mining, Paper Industry, Petro chemicals and turbo chargers. It has made all Important Documents & Drawings mandatory to be stored in Microform.

### **Rolls-Royce**

Rolls-Royce plc is a global company providing power on land, sea and air. The company has established leading positions in civil aerospace, defence, marine and energy markets.

### **EADS CASA Getafe Factory**

A two-seater Eurofighter prototype is being tested at the Getafe site. This facility manufactures the right wing of the fighter. It also carries out final assembly for Spain. Getafe also carries out maintenance, overhaul and combat enhancement on military high-performance aircraft - including fighter aircraft (AV-8B Harrier, EF-18 Hornet, F-5 Tiger, F-1 Mirage), trainers (Tamiz and C-101 Aviojet), transporters (C-130 Hercules) and maritime patrol aircraft (P-3 Orion).

### **CCI Valve**

As the world's leading provider of severe service control valve solutions, CCI develops, designs, and manufactures a wide range of valves for use in the power industry, oil and gas industry, and pulp and paper plants worldwide. All technical drawings are being stored long-term on Microform.

### **ACRPP**

ACRPP is the most important French provider of Services for newspapers and reviews published during the last three centuries. The company supplies libraries and universities throughout the world with microfilm or digital formats for archive and customer services.

### **BOSCH**

All units of Bosch across the world is storing all their documents generated in Microfilm form. Bosch has data stored in Microfiches for A4 and A3 Documents, Drawings are stored in Aperture Cards.