



Exact. Safe. Reliable.

**Aircraft maintenance and
painting platforms**

DEMAG.....



BOEING 747-400

JM

DEBAG



It goes without saying that aircraft earn money when they are in the air rather than on the ground.

Airlines are increasingly being forced to keep their maintenance and overhaul periods to a minimum in order to achieve maximum performance and enhance profitability while improving service.

As a partner who has served the aircraft industry for many years, we have extensive expertise in the planning and manufacture of crane solutions that are precisely matched to process requirements for the safe and reliable maintenance of aircraft.

34270



Today, ever more sophisticated maintenance and painting facilities are required to accommodate the various types and sizes of aircraft. Different floor level platform designs for each type of aircraft take up large areas of floor space around the aircraft being serviced.

In modern maintenance and painting hangars, a combination of telescopic work platforms and suspension cranes provides the optimum solution to utilising space more effectively. In the aviation industry, crane installations of this kind are increasingly being used for major repair, service and painting work.



41858-39

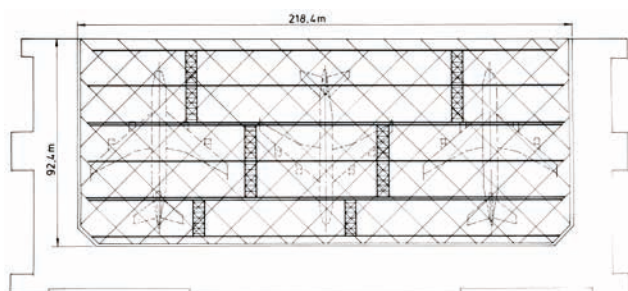
A teleplatform system consists of suspension cranes, teleplatforms and service trolleys which are mainly used for lifting and handling jet engines.

By connecting individual suspension cranes via latching devices, one or several trolleys can travel from one crane bridge to the next. In this way, the operating radius of a platform or service trolley can be extended to cover the entire width of the hangar. Since individual cranes can

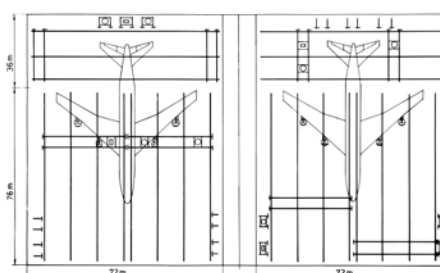
also be suspended from several runway tracks, overhead space can be fully utilised and a uniform distribution of forces on the building can be ensured.

A telescopic mast, which can be extended downwards, is equipped with a lightweight maintenance platform that can be rotated through 370°. Using a control panel, the operator can move the maintenance platform into the desired position right down to the last millimetre.

Examples of maintenance and painting hangar layouts

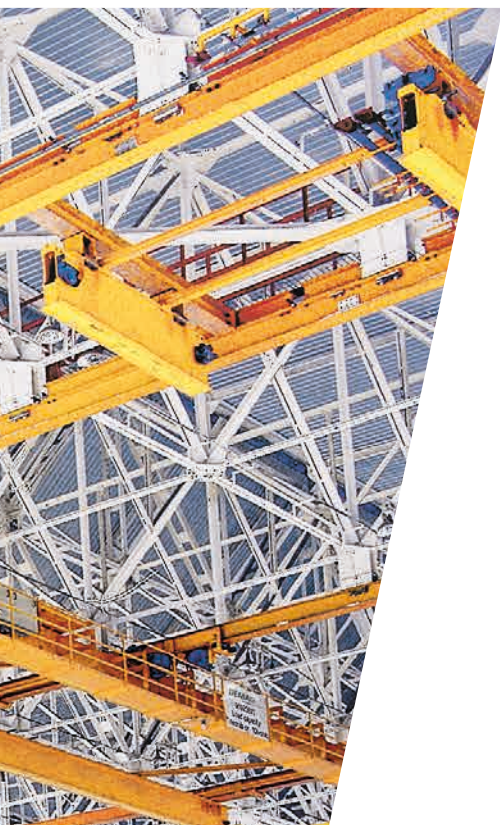


02055



02057





An overhead work platform can be equipped with compressed air, water and a power supply to meet specific requirements. Damage to the aircraft can be prevented thanks to an integrated anti-collision device, enabling an optimum working position to be achieved at all times.

For safety reasons, the control system can be disabled if the platform door is opened. If the load capacity is exceeded, an integrated overload protection device ensures that the entire installation is automatically switched off.

Sections of the platform railing can be removed to carry out work very close to the aircraft. In these cases, specially designed safety harnesses are provided for personnel. In the event of an emergency, the necessary equipment is available for personnel to leave the platform safely.





32952

Standby for safety and cost benefits

Experience has shown that the masts of teleplatform systems are subjected to external horizontal forces in various applications. The mast developed by Demag Cranes & Components is specially designed to dissipate these forces, however. Featuring high structural rigidity and a low deadweight, important conditions are met for guaranteeing a safe and stable work platform.

We meet the requirements for a wide range of tasks – for routine inspections, jet engine inspections and moving aircraft parts to maintenance areas as well as for the painting of complete aircraft.

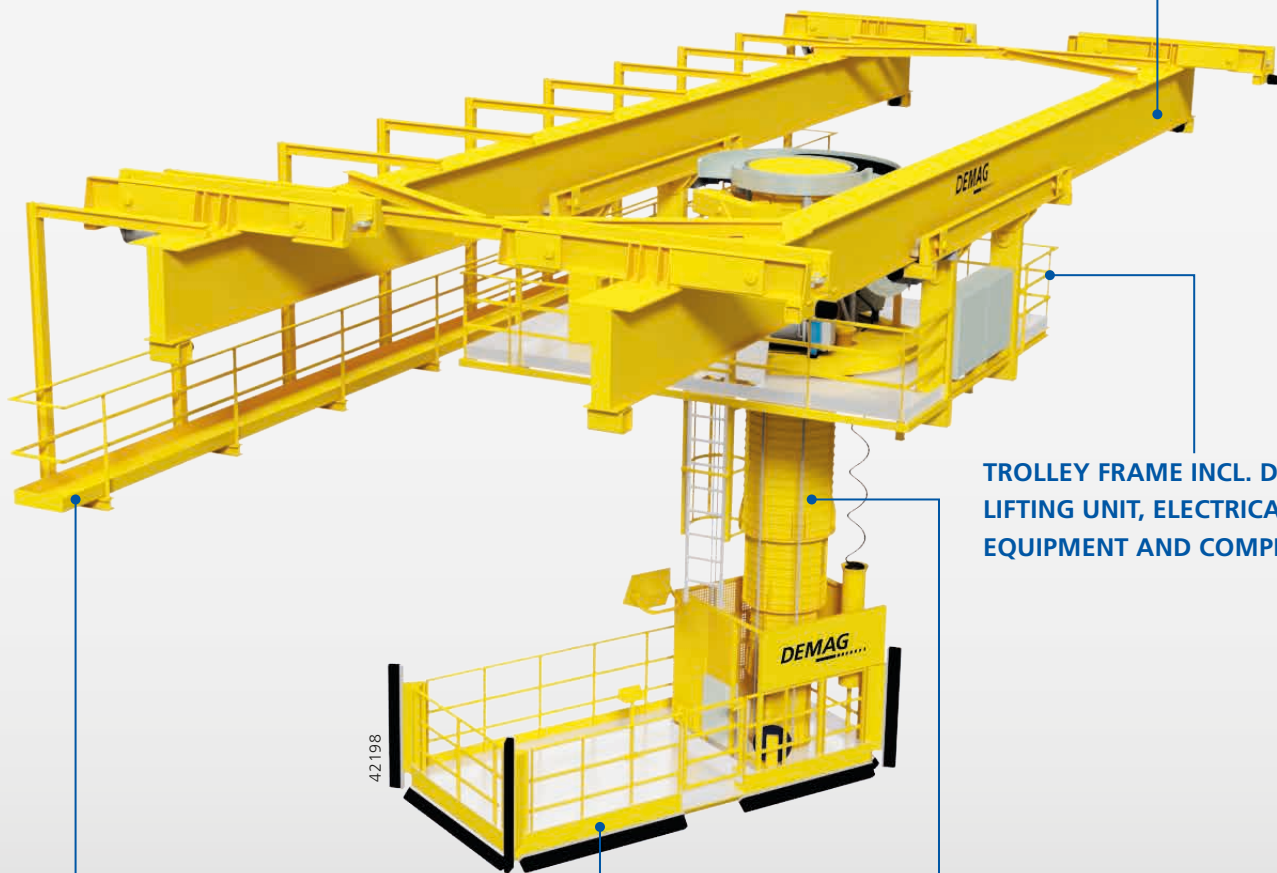
With years of experience and know-how in delivering various solutions, we are a competent partner for manufacturing, maintenance and painting applications in the aviation industry.

Making the right choice of supplier the first time round who fully understands your requirements is essential for significant cost saving opportunities. Explore these opportunities further – with Demag Cranes & Components.

Teleplatforms for MRO and painting

SUSPENSION CRANE SYSTEM BRIDGING COMPLETE WORKING AREA:

- Cranes with multiple suspensions
- Several cranes can interlock with each other



EASY ACCESS FOR MAINTENANCE OF CRANE AND TELEPLATFORM

TROLLEY FRAME INCL. DOUBLE LIFTING UNIT, ELECTRICAL EQUIPMENT AND COMPRESSOR

HIGHEST SAFETY STANDARDS REACHED BY MINIMIZED OSCILLATION DUE TO OCTAGONAL TELESCOPIC MAST DESIGN

WORKING PLATFORM

- Smart safety bumpers to avoid damage
- Easy access to media outlets: power, compressed air
- Ergonomic control unit



39482-6-1

The removal of engines from an aircraft is one of the main tasks to be performed. Using special load lifting attachments, the engines can be removed without any risk of damage.

For aircraft maintenance operations, we supply crane installations which can be used to provide a flexible response to meet changing requirements – from single-girder suspension crane to intralogistic crane systems.

For these maintenance applications, too, suspension cranes are the first choice, since they bridge the maintenance sections of a hangar with spans measuring 90 metres and more – also with multiple suspensions. And because these cranes can be interlocked with each other, the maintenance hoists can transfer from one part of the building to another.

Suspension cranes provide for optimum space utilisation by freeing up valuable floor space, since crane runway columns are no longer required.



37437-4



CRANE WITH 5 SUSPENSION POINTS AND WALKWAY

- 10 t load capacity
- 14.5 - 15 - 14.5 - 14.5 m span
- 60 m total span incl. girder overhangs
 - Single or double-girder design
 - Bridging large building spans
 - Low crane headroom dimensions
 - Low crane deadweight results in lower loads acting on the roof

CRANES WITH 5 SUSPENSION POINTS

- 15 t load capacity
- 18.23 - 18.23 - 18.23 - 16.53 m span
 - 73 m total span incl. girder overhangs

Aviation industry client list (selection only)

AIRCRAFT MRO

Air Algerie, Algeria	Egypt Air, Egypt	Philippine Airlines, Philippines
Air Base Ramstein, Germany	Eva Airways, Taiwan	Royal Air Maroc, Morocco
Air Berlin, Germany	Finnair, Finland	Royal Flight, Oman
Air France, France	Garuda Air, Indonesia	Royal Jordanian Airlines, Jordan
Air New Zealand, New Zealand	Gamco, Abu Dhabi	Sabena, Belgium
Alitalia, Italy	Haeco, Hong Kong	SAESL, Singapore
Al Udeid Air Base, Qatar	Hainan Airline, China	SAS, Denmark
Ameco, China	Iberia, Spain	SATS, Singapore
American Airlines, USA	Korean Air, Korea	Saudia Air, Saudi Arabia
ANA, Japan	Kuwait Airways, Kuwait	Shanghai Airlines, China
Ansett, Australia	Lufthansa, Germany	Shannon Aerospace, Ireland
Arab Airlines, Syria	MAS, Malaysia	Singapore Airlines, Singapore
Attitech, Italy	MASGMR, India	STA, Singapore
Aveos, Canada	Meridiana SpA, Italy	Sultanate of Brunei, Brunei
British Airways, UK	New Doha Int. Airport, Qatar	Thai Airways, Thailand
China Eastern Airlines, China	Olympic Airways, Greece	Turkish Airlines, Turkey
Condor Cargo Technik, Germany	PIA, Pakistan	Qantas, Australia

AIRCRAFT PRODUCTION AND COMPONENT MANUFACTURING

Airbus, Germany	Cessna, USA	ITP Aero, Spain
Airbus, UK	Chendu Aircraft, China	Lockheed Martin, USA
Airbus Mobile, USA	Daewoo, Korea	Macel Dassault, France
Airbus, France	Denel Aviation, South Africa	Matra BAe Dynamics, UK
Airbus (CASA), Spain	Dornier, Germany	NASA, USA
Airbus Tianjin, China	EADS, Germany	Rolls Royce, UK
Alenia, Italy	EADS, Spain	Samsung Aerospace, Korea
American Eurocopter, USA	Embraer, Brazil	ShangXi Aircraft Manufact., China
Aviastar, Russia	Fokker, Germany	Shenyang Aircraft, China
BAE Systems, UK	GKN Aerospace, UK	Spirit, UK
Boeing, USA	Hawker De Havilland, Australia	Tension Institute (for COMAC), China
Boeing Helicopters, USA	Ilyushin, Russia	Xian Aircraft Manufacturing, China
Bombardier, Canada	INTA, Spain	Zeppelin, Germany
COMAC, China	Irkut, Russia	

DEMAG CRANES & COMPONENTS GMBH

Wetter site
Ruhrstrasse 28
58300 Wetter, Germany
E info@demagcranes.com
T +49 2335 92-0
F +49 2335 92-7676
www.demagcranes.com