

# Aviation OEM



You can find further information about  
CTI Systems and the solutions we offer  
in the following brochures:



Aviation MRO

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Aviation OEM

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Paint Systems

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Intralogistics

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Software & Automation (WMS & MES)

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Aircraft maintenance, paintwork and production, automated material handling, heavy-load storage and surface treatment.



# CTI Systems

Part of the Paul Wurth Group, the Luxembourg-based company with about 1000 employees has over 55 years of experience in the field of intralogistics, with further divisions operating in the fields of aviation and surface treatment.

CTI Systems is a leading supplier of integrated automated handling and processing systems, with a focus on heavy loads. Our portfolio includes automated material handling solutions, aircraft servicing systems, storage systems, surface treatment installations, assembly lines, as well as software solutions for production control or the optimisation of storage & distribution systems (MES & WMS), including the integration of machinery from other suppliers.

As a company, CTI Systems is large enough to provide highly complex turnkey installations, yet small enough to have direct management contact allowing quick and dependable decision-making.



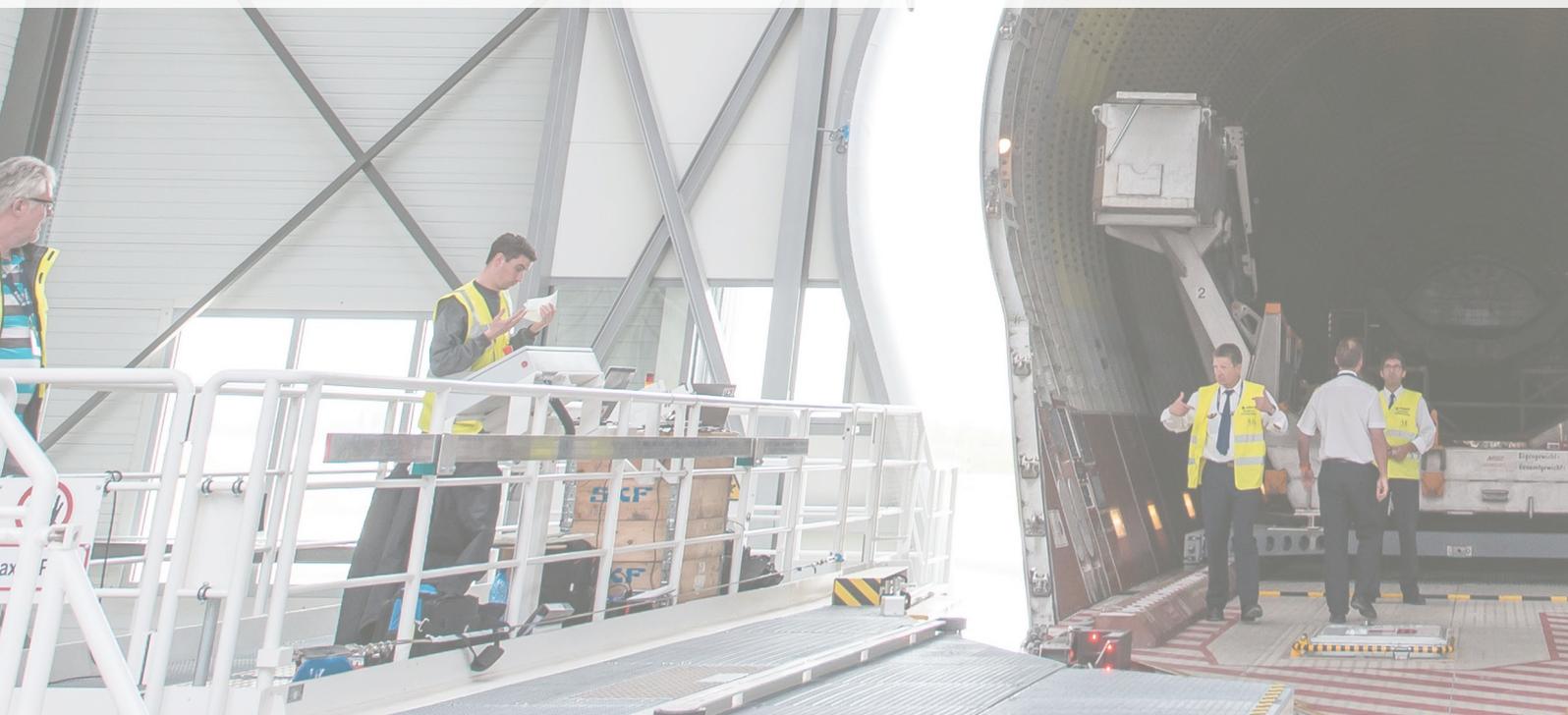
Member of  
Paul Wurth  
Group

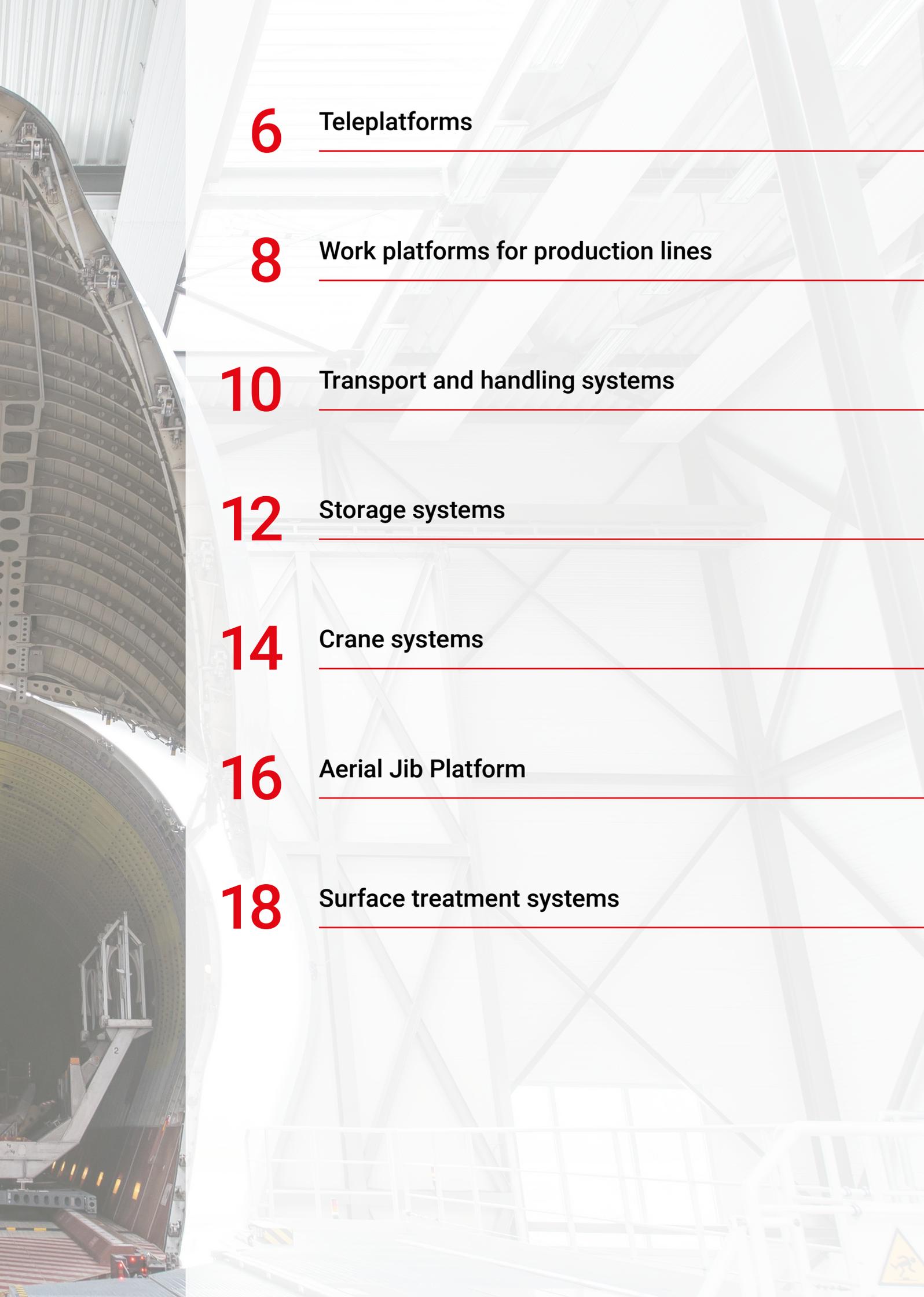
## Tier-one supplier for your production

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CTI Systems is the prime address for aircraft manufacturers who require OEM solutions in the production field. Numerous references from all over the world testify to our decades of expertise.

From the assembly of individual components to perfect surface coating CTI Systems has the individual, flexible, highly efficient concepts and systems to ensure that you can build your aircraft quickly, safely and economically.





**6** **Teleplatforms**

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**10** **Transport and handling systems**

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**12** **Storage systems**

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**14** **Crane systems**

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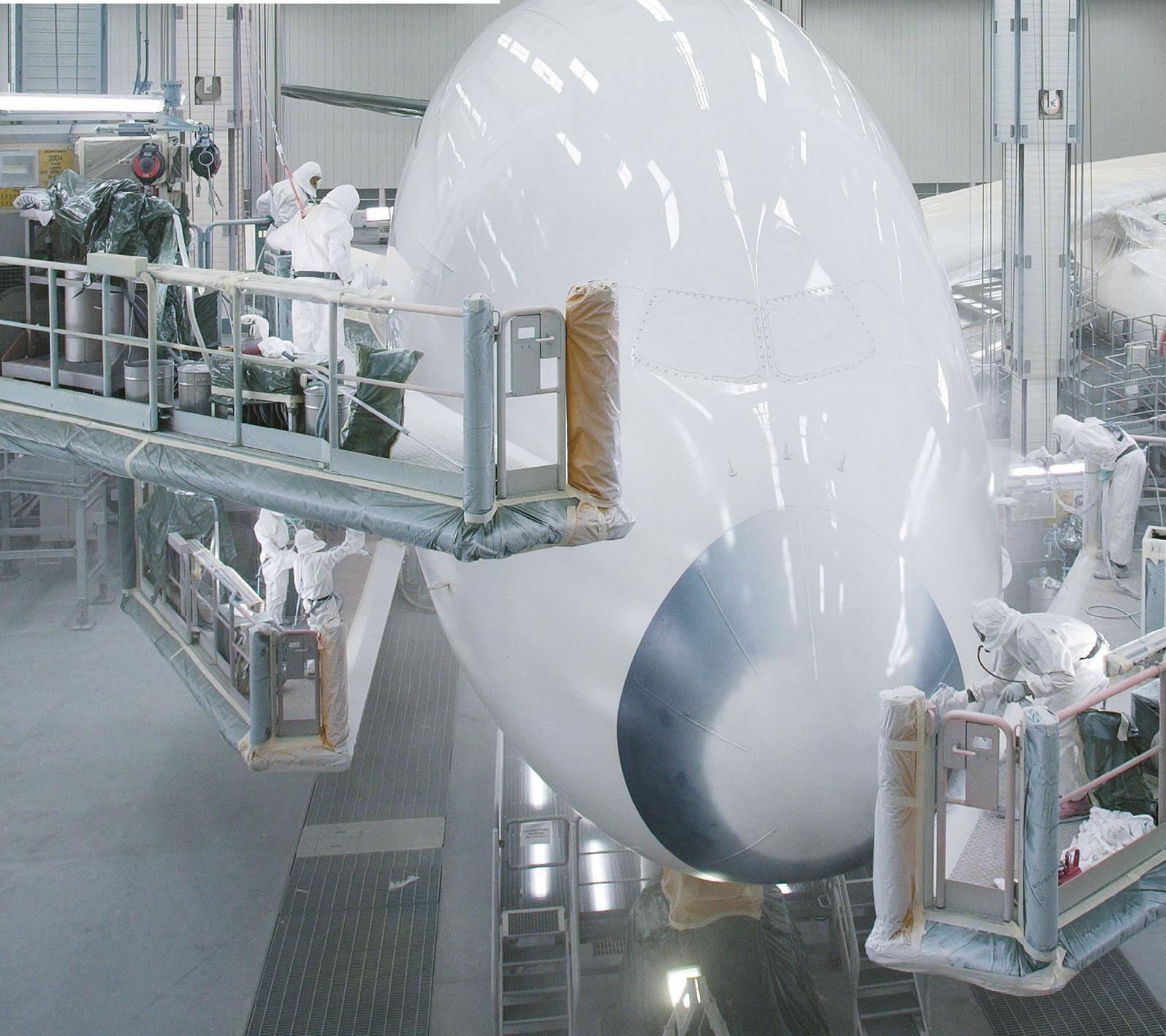
**16** **Aerial Jib Platform**

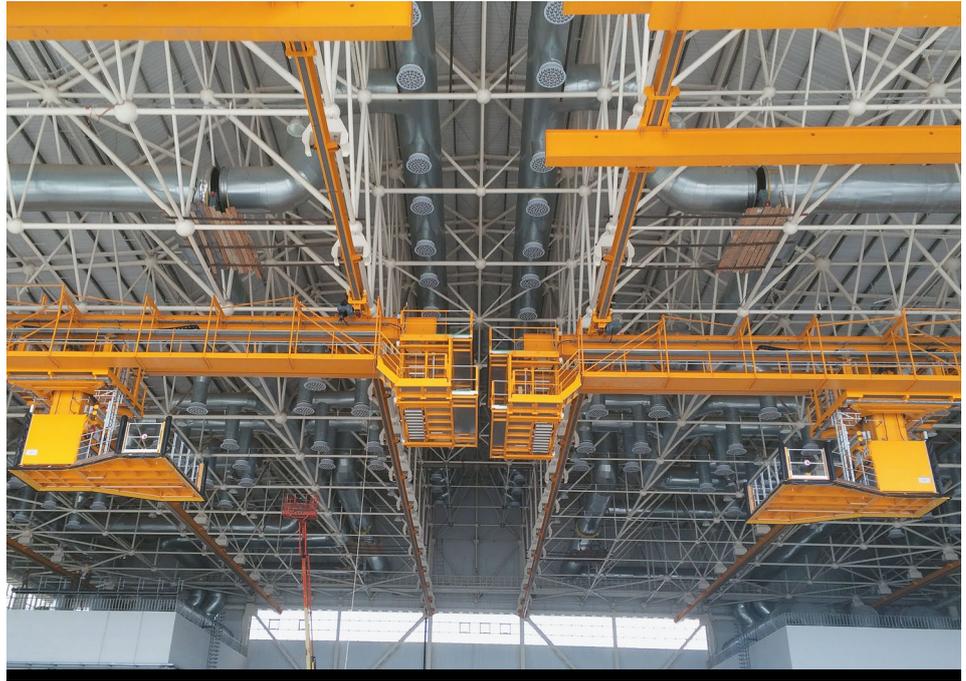
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**18** **Surface treatment systems**

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**CTI Systems**  
**Teleplatforms provide**  
**fast and safe access**  
**to overhead working**  
**areas**





# Teleplatforms

## **FLEXIBILITY AT ANY HEIGHT**

Especially developed for the aviation industry, CTI Systems' teleplatforms improve performance in the following areas:

- Production and assembly of aircraft
- Line maintenance of aircraft
- Aircraft overhaul
- Cleaning of aircraft, paint removal, masking and painting

Our teleplatforms comprise a working platform, a telescoping mast and an underslung carrier structure which is connected to an overhead crane (OHC). It can be easily entered when lowered and is then raised to the desired working level. This allows fast, easy and safe access to every part of the aircraft. Integrated anti-collision systems assist the operator to prevent aircraft damage. CTI Systems' teleplatforms may be fitted with all the required equipment and media supplies and can be used in all areas of the hangar covered by the crane system. Crane interlocking devices allow interchangeability between hoist trolleys and teleplatforms.

# Work platforms for production lines

## ERGONOMIC WORKING GUARANTEED

CTI Systems supplies stationary and mobile work platforms for all processes involved in aircraft production. For work on wheel wells or landing gear, fuselage or engines, wings or tail fins, our platforms are designed for different working heights and loads and can be fitted with all the equipment needed for the application in question, including:

- Supply of hot and cold water
- Connections for compressed air and breathable air
- Power sockets and lighting
- Safety ropes and harness
- Ventilation devices
- Folding railings
- Extendable platforms for greater working radius

CTI Systems' work platforms guarantee a secure and steady base for service personnel and, if required, extendable supports are available for additional safety.



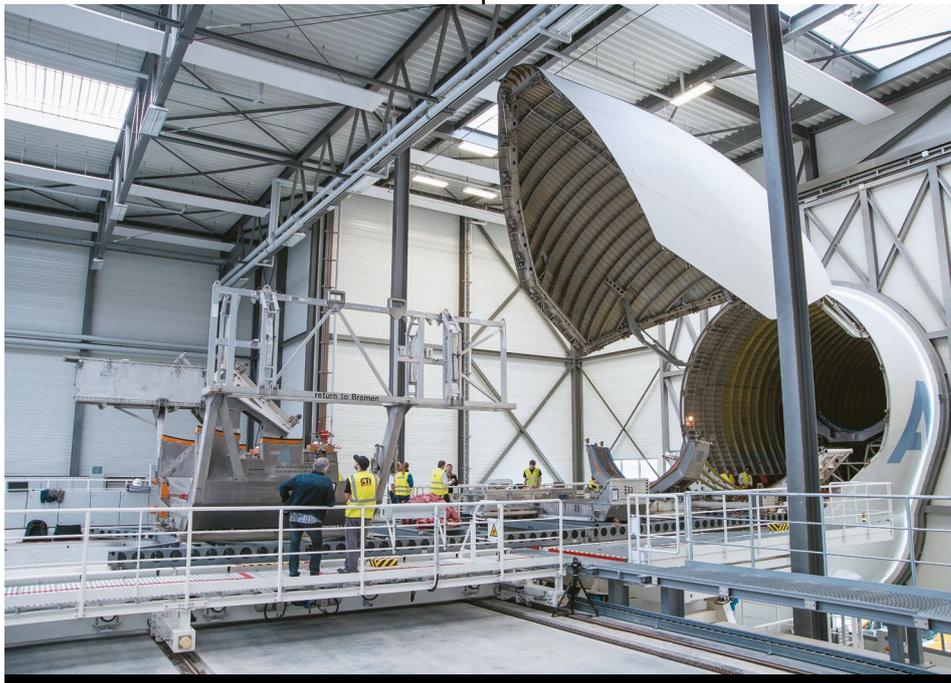


**CTI Systems'  
workplatforms  
provide mobility and  
flexibility in  
confined spaces**



**Heavy, bulky and  
large aircraft  
components are  
handled gently and  
precisely**





# Transport & handling systems

## **FAST AND SAFE FROM A TO B**

CTI Systems ensures that all aircraft parts arrive reliably at exactly the point they are required. We supply a wide range of devices to support you at every stage of aircraft production – from the transport of bulky fuselage sections and transfers between production lines to the accurate positioning of component parts for final assembly.

- Interface racks
- Rotating and elevator stations
- Mobile racks
- Cargo boarders
- Crane units
- Mono- and bi-rail systems

All processes, whether manual, automatic or semi-automatic, are adapted precisely to the individual component parts and perfectly integrated in your production process.





# Storage systems

## FLEXIBLE OPTIMISED STORAGE SYSTEMS

For decades, we have been experts in the field of intralogistics. Based on this experience, we have developed storage & conveyor systems especially for the aviation industry, which allow heavy or bulky aircraft parts to be stored & transported safely and economically. With CTI Systems you get a custom-made concept from one single source:

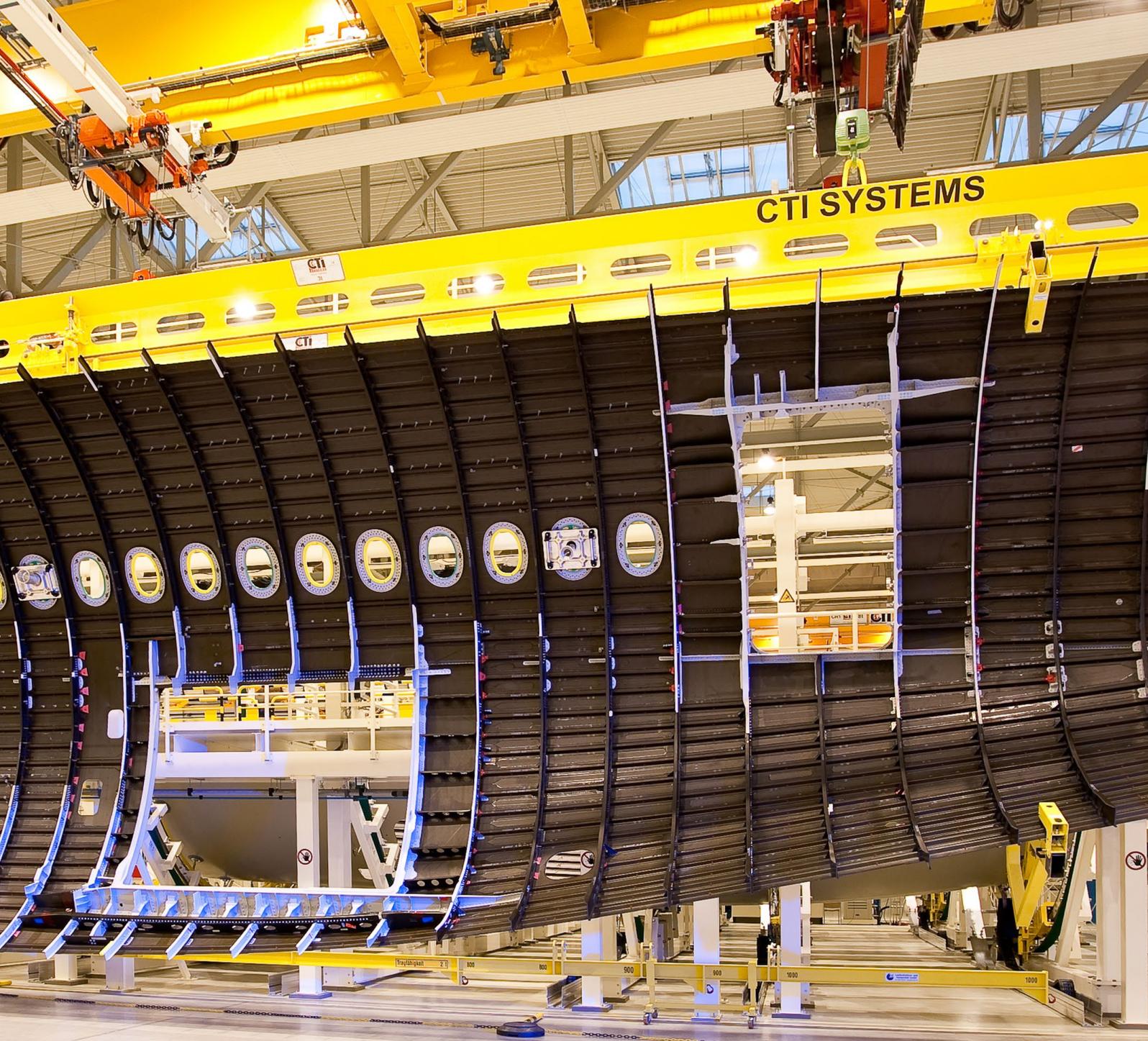
- High-bay warehouses
- Stacked warehouses
- Floor warehouses
- Suspended warehouses
- Overhead cranes/manipulators
- Floor-based and overhead conveying systems

For CTI Systems, heavy loads are daily business. Our automatic stacker cranes can handle weights from 100 kg up to 40 tons at a maximum speed of 200 metres per minute. Our storage systems are fully automatic and can be integrated into existing plants. The CTI Systems' warehouse management system guarantees smooth operation of all your processes.





**CTI Systems' priority:  
short distances and  
efficient procedures**



**CTI Systems' cranes  
- the economical  
solution for complex  
transport tasks**

Source: Premium AEROTEC



# Crane systems

## **OPTIMUM MATERIAL FLOW IS DECISIVE FOR THE EFFICIENCY OF YOUR PRODUCTION PROCESSES**

For the special requirements of the aircraft industry, CTI Systems has developed a wide range of crane systems:

- Overhead cranes
- Portal cranes
- Process cranes (automatic cranes)
- Interlocking cranes

CTI Systems' cranes are adapted individually for specific tasks. Whether you work with heavy loads, sensitive materials and/or bulky goods, we will develop perfect transport and handling concepts which ensure the efficiency of your production processes. The cranes can be fitted with interlocking devices which allow the trolleys to pass over onto neighbouring crane bridges or monorail tracks.

CTI Systems' cranes are capable of transporting loads of up to 65 tons quickly and reliably. Our grip and load-suspension systems are adapted perfectly to the individual application and the material in question.



# Aerial Jib Platform

## DEDICATED SOLUTIONS WITH ON-BOARD EQUIPMENT FOR NARROW-BODY AIRCRAFT

The Aerial Jib Platform (AJP) is an advanced aircraft access solution, specially developed for aircraft painting purposes or similar related tasks such as sanding, polishing, cleaning, sealing or touch painting. Especially when roof suspended teleplatforms cannot be applied at existing premises, the AJP may be an optional solution for your tasks. The AJP fits for narrow body aircraft including A320 & B737 series as well as similar sized aircraft.

This special tool suits best for hangars with low roof structure or lightweight hangar structures. In order to guarantee a complete coverage of the narrow body aircraft, a total of four AJP's shall be installed. In operation mode, all AJP's shall be fixed on its dedicated location near the aircraft. The hangar door located AJP's will be mobile on floor integrated rails, allowing quick & safe hangar entry & leave. There is no carrier moving along aircraft envelope during operation, thus minimizing the aircraft damage risk.





**CTI Systems'  
new access  
solution for narrow  
body aircraft**

**CTI Systems  
ensures fast and  
reliable surface  
treatment of your  
aircraft components**





# Surface treatment

## ONE-STOP-SOURCE TURNKEY SYSTEMS

CTI Systems is your global partner for fully integrated surface treatment systems. One of our key target sectors is aviation, where we supply solutions individually customised to aircraft dimensions and material flows. All solutions include state-of-the-art automation software.

CTI Systems offers efficient handling, storage and intermediate surface treatment systems:

- Priming
- Painting
- Curing and drying
- Chemical milling and galvanising

CTI Systems provides a one-stop-source service – from systems planning through engineering and production to installation and commissioning.

If required, we can also include equipment from third-party suppliers.

# Contact data

If you need customised system in the field of aircraft manufacturing, please do not hesitate to contact us at CTI Systems. Together we will find the solution best suiting your specific needs.

We look forward to hearing from you.

## **CTI Systems S.à r.l.**

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