CUSTOMER REQUIREMENTS

Our **team of consultants** addressed the problems of the current processes at **AIRBUS**, a global leader in the aeronautical industry: **These involved considerable inefficient handling, storage and management of aircraft parts and tools during the maintenance operations.**

Furthermore, the company's internal audits warned that this inefficient management put both **equipment and personnel at considerable risk of accident.**

SOLUTION TARGETS:

OPTIMIZE THE INVENTORY MANAGEMENT
Also **improve** safety, while **freeing up time** currently wasted on internal logistics to dedicate it rather to specific and worthwhile tasks.

STOP STORING ITEMS ON THE FLOOR
The customer was not allowed to use forklifts in the hangars due to the **risk** of damaging spare parts and components stored in the maintenance area, so only the floor space was occupied.

LOCATIONS MONITORING
Once the engineers had retrieved and stored the airplane parts, they had **no system to record** their locations in the hangar, which would **speed up their recovery** when working on their re-assembly.

STORAGE VERSATILITY
It was difficult to find two identical parts in the hangar, which meant that every one of them needed a **special handling adaptation.**

EASE OF USE
Each engineer is responsible for using the warehouse equipment and so must be **capable of learning** to use the system quickly, without specific certificates or skills for the purpose.

SOFTWARE INTEGRATION WITH EXISTING SYSTEMS
Integration with the proprietary PELICANO maintenance, repair and overhaul (MRO) software and PANASONIC tablets. It was necessary a **warehouse management** software (WMS) which included a communication interface which was able to operate with the current customer's data capture tablets and MRO Software.

IMPROVED SAFETY
The goal must be to protect the **retrieved aircraft parts** and **personnel** at all times.

2 HUBMASTER® STORAGE AND HANDLING SYSTEMS
These are designed for the handling of a variety of loads.

1ST SYSTEM
This is used with **cantilever** racking for **storing loads of up to 6 m in length** with aisles of 2.7 m widths.

2nd SYSTEM
This is used to handle **super deep loads of 1.9 m and 2.7 m wide**, stored on specially configured racking and 3 m wide aisles.

TOTAL CAPACITY
The total height of the systems is **7 m** and the maximum load capacity is **1.000 kg.**

MANAGEMENT OF SPECIAL OVERSIZED SUPPORTS
Special oversized supports for **airplane panels** carrying several parts **simultaneously** can also be handled by the **HUBMASTER®**.

NARROW AISLE STORAGE
The systems will be positioned **between** the aircrafts which are being maintained in the hangar.

WMS SOFTWARE BY HUBMASTER®
The **WMS system** is integrated with the **Customer's MRO Software** and will **recommend positions for each part** based on their features and the available storage space in the racks.

INTERFACE AND CONTROL
Operation via **tablets** and their shared use with the **MRO software** will simplify the operator's tasks.

"HANGAR DESIGN" MODULE
It will give Airbus the independence to create **new storage spaces** in order to **map out any object anywhere** in any of the existing hangars.

TIME OPTIMIZATION
We optimized and simplified **all the operations** so that the technicians were able to concentrate on the priorities of Airbus.

STORED UNITS
Access to stored units **without "LIFO" restrictions or double handling.** Now the operator will have **access** to any position without having to previously move other units.

SOFTWARE AND HARDWARE INTERFACE
The engineers will use the HUBMASTER® WMS application by giving orders through the MRO software, using the **same devices** they currently use for maintenance tasks, meaning a perfect data exchange and **no loss of time.**

TOTAL CONTROL
Control about the po**sition of each item,** without any loss of time by verifying visually where the unit was stored.

MITIGATED RISKS OF DAMAGES
Quick return on investment thanks to a reduction in the number of units damaged during their temporary storage.
The **HUBMASTER®** is equipped with **sensors** that transmit its position to the PLC, **blocking any incorrect command** by the operator which could cause a collision.

EASE OF USE
15 minutes of training is all that it is needed to explain the basic functioning of the system. Any low skilled personnel can use the system.
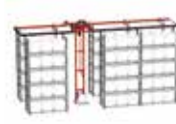
The **HUBMASTER®** is available in a range of configurations that meet the strictest requirements for optimizing storage space and safety, also available in a fully automatic operation mode. We also provide tailored solutions for special applications.

The specifically developed hangar management software SGA **HUBMASTER®** enables an efficient integration with other operations and maintenance management software through data exchange protocols. The **HUBMASTER®** focuses especially on optimizing the configuration of the operations associated with dismantling, assembly and management of parts, multi-part containers and positions in the hangar.

It is available in the following configurations:

Single sided system   **Side access system**   **Dual aisle with cross-over system**   **Cantilever front access system**

Other TAILORED CONFIGURATIONS for special load capacities, heights and handling accessories, as well as integration with other client-specific software, are available **UPON REQUEST.**

Contact us today to speak to one of our agents for a non-binding initial estimate.