



POLSTORE
STORAGE SYSTEMS

MOBILE STORAGE
SOLUTION FOR
SAFEGUARDING
MILITARY ASSETS

AN EXCEPTIONAL STORAGE SOLUTION FOR EXCEPTIONAL TYRES

Since 1964, Polstore has been providing high end military storage and tool solutions helping armed forces prepare for the way ahead. Whether it be land, air or sea our aim is to create efficiency, reduce waste, lower overheads, improve attitude and motivate military personnel within the workplace.

The United States Air Force (USAF) has been a long-standing client of Polstore. We are trusted time and time again to deliver storage solutions which match their needs whether that is storage at one of their airbases or when out on deployment. They understand that we continually innovate our solutions to improve capability and performance. This was the case when they had a challenge with storage for a unique set of tyres – those for an F-15 & F-35 Fighter Jet.

REDUCING HIGH WASTAGE COSTS

The main issue USAF were experiencing was damage to the tyre when it's being stored, and then when moved from storage to the actual plane. If not stored or handled correctly, any slight nick, cut or blemish deems the tyre useless. This incurs a high wastage cost.

ADAPTING OUR SOLUTION IN LINE WITH GROWTH

Previously, we had installed a maintenance workshop storage area for the tools, parts and accessories which support the maintenance of the tyres and wheels. With increasing capacity and traffic across the area, USAF was looking to reduce the space used for the workshop and increase storage capacity for the ever-increasing demand.

As part of our 5-step process, the Polstore team arranged a visit, conducted a detailed site survey, and then designed a bespoke storage solution ideal for this working area.

Based on our experience, we suggested a mobile racking system with a heavy duty mobile base system. We added a false floor with an aluminium checker plate covering (due to high footfall) which supported the longspan racking and mobile base chassis.



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The mobile storage system is designed to provide unsurpassed levels of performance and strength designed for 24/7 repetitive use. The carriages are manufactured from fully welded cold rolled steel which is precision punched and welded in jigs to maintain accuracy. All drive and running gear components are of the highest quality available. All nuts and bolts are nyloc bright zinc plated high tensile grade 8.8.

The tyre store racking was then designed to accommodate aircraft wheels and tyres. The total dimensions of the system were 10,000mm long x 3,400mm wide with 10 lockable (hand wheel) manual mobile bases 3,400mm wide x 920mm deep. The galvanised metal shelving was designed to accommodate the aircraft wheels (with tyres) with a uniform distributed load of 200Kg per shelf (approx. 600Kg per bay).

DELIVERING SUCCESS TO NEW HEIGHTS

USAF now has a safe and secure compacted storage solution protecting their assets. Operators have easy access with clear and identifiable locations for wheel and tyres making the functionality of the workshop effective.

EXCEPTIONAL STORAGE SOLUTIONS FOR THE MILITARY

As technology advances so do operational requirements. Our success with various worldwide military services is through continuous innovation, evaluating challenges with new perspectives as needs and technology develop. If you have a storage challenge for Polstore, contact our team.

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MILITARY STORAGE SPECIALISTS SINCE 1964

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- CONTAINER CONVERSIONS
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- ELECTRONIC LOCKING
- BESPOKE SERVICES