



The Result

"LINPAC completed the project on time and within budget in spite of our ambitious schedule," concluded Bennett. "We even made some last minute changes to the warehouse design but LINPAC still met the deadlines. We were extremely impressed with the professional way they handled the project from beginning to end."



Above: VNA racking rising to 7.2 metres

Left: Strong steel tote bins located on longspan shelving.



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LINPAC Storage Systems

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First Class Storage Solution

TNT Logistics has held a contract with Rolls-Royce since 2000. The scope of its work covers transport and warehousing in the UK and overseas. Recent developments in the Marine Gas Turbine market led to the need for a parts warehouse to support the assembly of new engines and the after-sales market.

The Challenge

Previously Rolls-Royce handled the marine products warehousing and distribution on various sites, however a dedicated site was required.

TNT chose a new 52,333 sq ft site at Castle Donington for the purpose. Two operations were to be run from the warehouse – a cross-docking operation for Rolls-Royce plc and the storage of marine products in a 25,000 sq ft separate section within the main warehouse.

The challenge for TNT was to find a storage supplier who could successfully install the innovative storage solution designed to house some 25,000 different marine product lines. The successful company would be tasked with working alongside various contractors to meet the ambitious timescale from warehouse completion to operation set by Paul Bennett, TNT's Logistics Design Manager.



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Above: Small products are stored in 6,500 plastic tilt bins.

The Solution

After a detailed tendering process by the TNT Warehouse Design Purchasing teams, the decision was made to award the contract to LINPAC Storage Systems. Bennett explains the rationale behind the decision, he said "LINPAC was one of the few companies that were able to take on our demanding deadlines and meet them. That was vitally important to us." The unique storage solution is a resourceful combination of 3 main elements: very narrow aisle (VNA) racking, narrow aisle high rise shelving and two walls full of small plastic tilt bins.

The Installation

The VNA pallet racking extends to over 7m high and incorporates two sections of racking in place of the normal pick and deposit (P&D) stations, that have been designed to allow bulky items to be placed directly into the depth of 2 bays (2.6m). These specially adapted P&D bays are used to store the largest engine parts that would not otherwise fit into the VNA racking.

Left: 25,000 marine product lines are stored in the warehouse.

The high rise VNA Longspan shelving runs the length of the warehouse; rising to over 6m with more than 20 shelf levels, each is fitted with steel decking panels. To meet stringent insurance regulations products are stored on these shelves in thousands of strong steel tote bins.

As the production and maintenance of the Rolls-Royce marine gas turbine engines requires a vast selection of small product lines, a total of 6,500 small plastic tilt bins were supplied. This storage facility provides a neat, efficient and easily accessible solution for these vitally important parts.

The entire storage system was designed to fully integrate with the sprinkler and heating systems.

