

Pirelli Tyres

Case Study



Order Picking and Despatch System

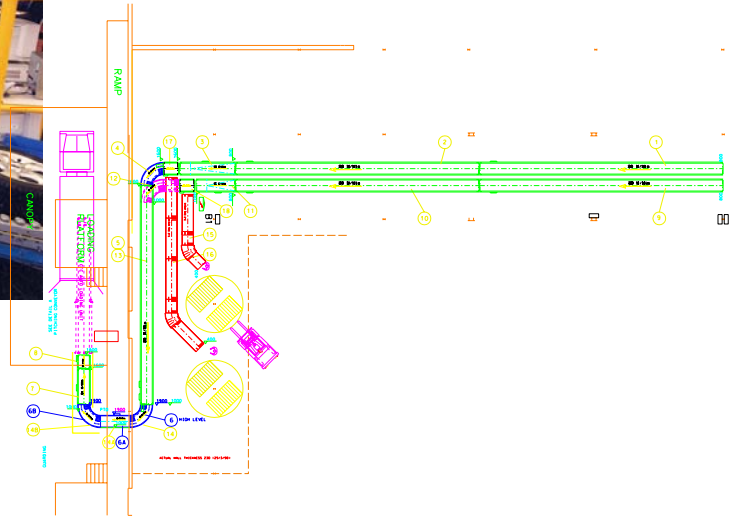
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INTRODUCTION

"Star of the Show" was how the press and TV media described the launch of the new Jaguar S – Type car.

To support the Castle Bromwich, Jaguar plant, Pirelli, as sole supplier of wheel and tyre assemblies for the S type, identified the need for a fully automated tyre and wheel assembly plant specifically for Jaguar, at their Burton-on-Trent plant.

This in turn led to Vanriet UK Limited being awarded a contract to design and build the tyre and wheel handling system.

REQUIREMENTS

Working in close partnership with Pirelli's engineering project team, headed by Operations Manager, Andrew Kearton, Vanriet Rohaco designed and supplied a fully integrated handling system.

Commenting, Paul Farmery, Vanriet UK Director, said the project was particularly challenging, involving a review of our engineering standards ensuring compliance with the Motor Industries Failure Mode Effects Analysis (FMEA).

SOLUTION

The system's main function is to deliver correctly sequenced wheel assemblies to the Jaguar Castle Bromwich plant on a just in time principle, however upstream to the despatch system are two purpose built wheel assembly rotation/barcode scan units, automated wheel and tyre assembly equipment complete with inflation, uniformity and balancing machines.

The total handling system was designed around Vanriet's standard product range incorporating:

Belt and Powered roller conveyors, special features included 90° chain transfer units, 90° wheel inverters and a spiral gravity accumulation conveyor.

The sequence line control incorporated specially prepared Vanriet software compatible with both Pirelli's and Jaguar's EDI scheduling, invoicing and warehouse management systems.