

DriveWorksXpress Case Study



DriveWorksXpress— The Easy-to-Use Design Automation Choice for SolidWorks Engineers

Storage and Racking System



Qi Van Systems design and manufacture high quality bespoke Van Conversions, Van Racking and Storage equipment from their factory in Telford, UK.

Their design team has been using SolidWorks for 3 years, and recently explored the potential of DriveWorksXpress to automate some of their product lines.

Here is what was involved in automating one of these lines, a storage tray unit: -

Time to set up - 3 hours

"This example took me approximately 3 Hours to automate. This included the time to work out how the parts would change under certain conditions, and then modelling to these conditions (using planes, dimensioning from critical planes etc..)"

Time to design product before we had SolidWorks and DriveWorksXpress - 8 hours

"It would take an engineer at least a day to produce the parts, assembly and drawings as the software system being used was not driven parametrically and was not as flexible as it is now."

Time to design product now with SolidWorks and DriveWorksXpress - 3 minutes

"It now takes an engineer a few minutes to specify and produce a new assembly complete with drawings and part numbers already assigned."

Number of variations this rule set caters for - >200,000,000

"There are numerous variations that can be produced from this assembly, as the dimensions can change from a unit which is 161h x 257w x 216d up to 966h x 1521w x 410d with any number of sizes in between, and again any number of shelves, dividers, spaces between. Each assembly could have rubber matting to each tray and/or a plinth rail. Common sense has to come into play when considering the infinite number of combinations possible, but even so the amount of combinations is still extremely high."

Other benefits that using DriveWorksXpress brings - Time, de-skill, consistency, new opportunities

"The main benefit of being able to capture and re-use product knowledge is time saving, but there are the added advantages of having less skilled engineers being able to produce new specifications of existing components and assemblies, the drawings that are produced have the views that enforce the standard design practice applicable to the company, and as a consequence of these advantages the skilled engineers can then concentrate on new product development which drives the company forward and increases the amount of products available in DriveWorks Xpress."

