



# INTRALOGISTICS Magazine

Knowledge and Excellence in Intralogistics



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**Steve Watkin, Dispatch Manager at Polypipe's Doncaster site, says:**

Impact's support has been phenomenal. They helped us specify precisely the right trucks and took on board all of the modifications we needed. We trust Impact implicitly with our fleet and have done for as long as I can remember.

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**IMPACT**



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SUPPLIES POLYPIPE WITH MULTI-COLOURED FORKLIFT FLEET.

**BUSINESS ON THE MOVE**  
THE GAME THAT'S MAKING A DIFFERENCE.

**GONDOLA SKATES**  
DON'T MOVE THE PRODUCTS  
MOVE THE RACKING?



## The Importance of User Requirement Specifications for a Successful Project

*In this month's article in the series from members of the Automated Material Handling Systems Association (AMHSA), David Hayward-Browne, Director of Logistics Planning Consultants International (LPC), considers one of the key factors when procuring an automated system: the use and benefits of Requirement Specifications within the project process.*

**A** successful automated or mechanised project requires a lot of consideration before somebody “cuts metal” or turns up on site. The process includes tenders and quotations, contracts, designs and plans and programmes, but at the very start is the user requirement. You can consider the starting point of a project to be when a client says “I want to get...”, or “I want to install...”. The user requirement specification is where the want is described.

The first point to remember is that unless your project is very simple, you are not buying a product with a pre-defined specification – you are buying a system made up of a number of components such as shuttles, miniloads, conveyors and control systems, with the specification and performance agreed between you and the supplier.

### Your business is unique

There is a very wide range of equipment and systems available when looking at automation and frequently more than one way of approaching the solution. Equally, there is a wide variation in the companies, business sectors and industries that suppliers deal with. A supplier may well have



significant experience with your type of business and industry, but you might do things a little differently. Therefore there is a need for the supplier to understand your actual requirements.

## Key points in a specification

The best way to do this is to produce a User Requirement Specification. This does not have to be a long and complex document, but should contain the following:

- An overview of what the facility and the system being supplied should do. The intention is to get everybody on the same page – and that includes the judge, should the project not go to plan and there is a contractual dispute.
- Key figures and hard numbers. This will limit the scope for assumptions to be made. The numbers should relate to overall totals and movements for process and material flows. For example, you are not specifying such things as the number of pack stations or case erectors needed, just that “x” needs to be packed and shipped each day by your cut-off time.
- Operational information and any constraints. A supplier will need to know such information as working hours and shift patterns; service level agreements, such as despatch times; and so on. Also include any constraints such as existing building features or stock cover requirements.
- Timeframes and dates. This should include your timescales for when completion is required, including any partial handover dates. It should also include any other key dates such as project sign-offs.
- Future projections. The system will be designed to last many years and should be designed with the future in mind. Therefore

projections for growth and other business changes should be included. Some changes will have more impact than others, particularly if growth is anticipated in product size or number of orderlines per order.

## Talk numbers

The User Requirement Specification should be supported by data. It is much better if information can be supplied for a peak and average period at transaction/item level than high level. This allows the supplier to optimise his proposal and for confidence in the performance of the system to be gained through modelling or simulation.

The specifications should be produced by the client though, if the expertise or resource is unavailable, a third party such as a consultant can be used, or a supplier if you have chosen to partner with one. However it is produced, the client should take responsibility for the document as it sets out their requirements, and will form the basis for functional design specifications, test scripts and handover conditions.

If you are going through a formal tender, the specification can form part of the tender documentation and be referenced in the contract when an order is placed. This then ensures that the importance of meeting your requirements is recognised throughout the life of the project.

