

# ROBSON

## HANDLING TECHNOLOGY

### Robson Simulation

#### Proving the system works

Proving mechanical engineered designs has traditionally been through the painstaking processes of drafting the design, calculating through puts, speeds and feeds, factoring power consumptions and motor ratings, also ensuring variances of size, weight and material are considered.

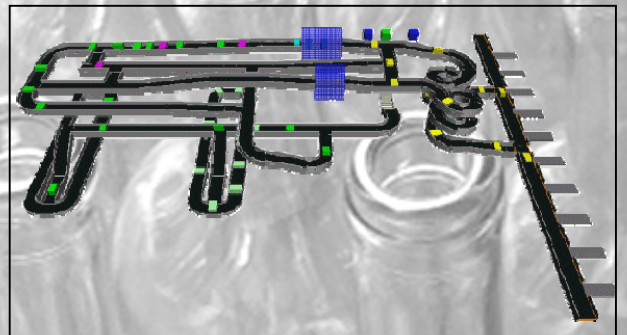
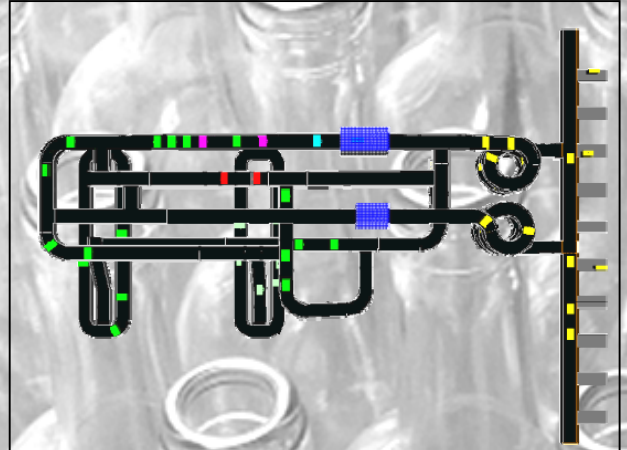
When the design reaches the engineering shop floor mistakes or miscalculations become very costly, even more so when the machinery or plant item reaches the customers site.

Geo Robson & Co Ltd, found that time taken perfecting the design, adding in the variances and looking at alternatives would save time and money at the build and commissioning stages.

Simulating the design as a 3D model, with a real-time animation product flow can be seen. The Engineer can identify areas of concern, well before production starts. Changes on the model of the speed and feed rates can increase the efficiency of the conveying system.

#### With simulation:

- Remove Bottlenecks
- Identify Speed differences
- Include Human involvement
- Consider Security or quality Check points
- Ensure Hold Points
- Includes Diverts



#### New Systems

Proving the design of new Process Lines, Handling or Bulk Materials systems.

#### Conveyor System Extensions

Ensuring the extension integrates with the existing system without creating problems.

#### System Performance Evaluation

Existing systems Simulated and Evaluated, resolving problem areas, giving the engineer the information to increase performance and productivity.



**Geo. Robson & Co. (Conveyors) Ltd**

Coleford Road, Sheffield, S9 5PA

Tel. +44 (0)114 2444221

Info@robson.co.uk

Fax. +44 (0)114 2433066

www.robson.co.uk



# Robson Conveyor Simulation

Robson's vast experience of the Airport industry underlined by the complex simulations generated by the simulation team has shown many worldwide successes. Closely following on from the successful use within the airport industry, Robson used the simulation system for other industries, again with great successes.

The team of Simulation Engineers at Robson found that almost any type of conveyed material could be simulated, with modular units showing the best results.

Palletised or packaged products, packaged food stuffs, parcels or assemblies can be modelled and simulated, each with its own peculiarities and site variances, the model can show the best solution for the customer, often saving thousands of pounds from the original specification".

Recent Robson Simulations Include:

- Airport Baggage Handling Systems
- Airport Hold Baggage Screening
- Warehousing Systems
- Cold store processes
- Self propelled vehicle or robot routes
- Polymer foam handling systems

Each case bespoke, with each solution unique to that operation. The simulation identified the optimum system and operating speeds for the conveyors.

Ensuring the feeds and outputs matched the previous and next process.



## Robson design and manufacture

- Airports Baggage Handling Systems
- Sugar Beet Handling
- Refined White Sugar Handling
- Cement Processing and Handling
- Glass Batch Plant
- Power Generation Fuel Feed Equipment
- Environmental and Waste Handling
- Oil Industry Equipment
- Quarrying Industry Equipment
- Food Processing Industry Equipment
- Dust Handling
- Steel Manufacturing Equipment
- Biomass Handling
- Ore & Aggregate Handling
- Postal & Warehousing
- Engineering & Manufacturing
- Automotive Industry

**Call Back Service** Please complete the form, you can fax, email or send to the address below. Peter Challans, Projects Director will be happy to call you back and discuss your requirements.

**Fax: 0114 2433066. Email: Challansp@robson.co.uk**

I am interested in the Glass Industry Simulation Service please contact me:

Name ..... Position .....Tel .....Fax .....

Company .....Department .....Mobile No.....Email .....



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Registered in England No. 397606

