

FOOD & DRINK

RB Group Implements cutting-edge 3D software for efficiency gains in multi-million pound project with Gü

RB Group has integrated advanced 3D spatial context software, from CupixWorks, to achieve significant time and cost efficiencies for their latest project with dessert manufacturer Gü.

BACKGROUND

This project involves installing a new production and packaging line within Gü's continuously operating facility, part of a multi-million pound investment at the Bishops Stortford site, aimed at delivering a high-speed, multi-format packaging line.

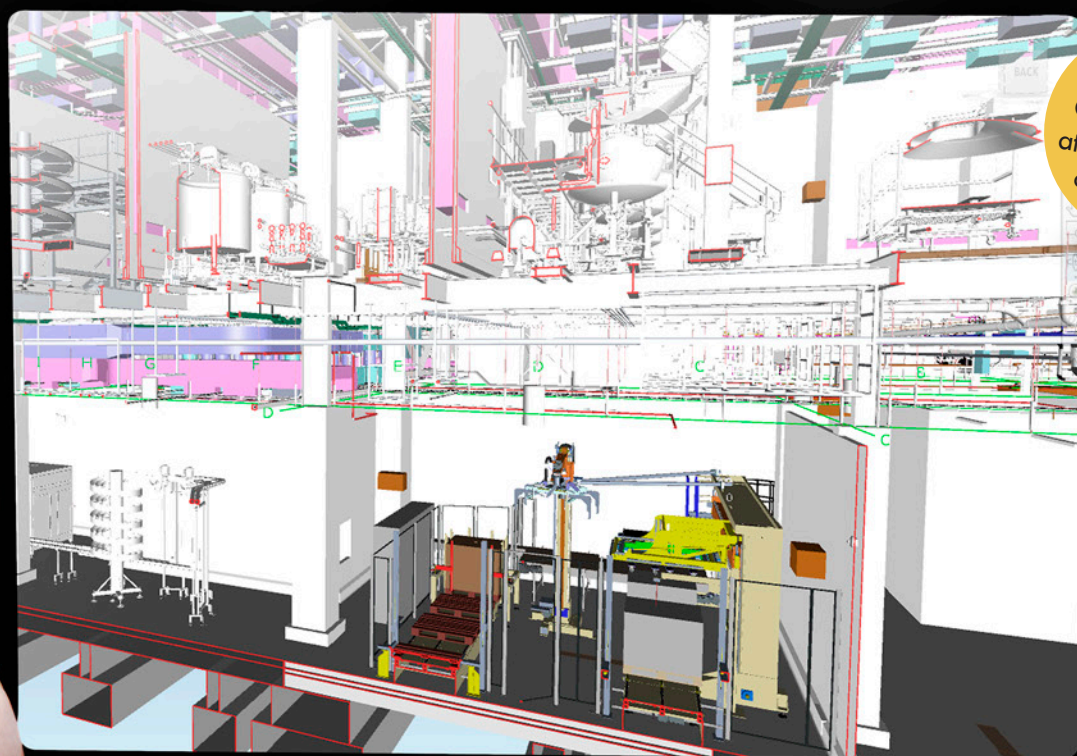
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Gü case study
at [rbplant.com/
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"It's just **quicker to work in compared to a laser scan**. I think Cupix is the next natural stage from that... for individuals to be able to view and walk around the sites. The Cupix system is **easier and more fluid**. It's a lot more intuitive for people who are not designers. Click on it, move around, navigate around easily.

With CupixWorks we scan as frequently as we can. We'll do a full capture at least every 2 weeks, and then it immediately flags up if something's wrong. **We can flag any issues pretty early and avoid delays.**"

SEÁN MCKIRDY DIRECTOR, RB GROUP



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CHALLENGES

RB Group faced several common challenges in managing and documenting the project:

- ✔ **Spatial constraints and accuracy**
Projects often involved tight and congested spaces, requiring precise installation of machinery and piping. Traditional methods sometimes led to inaccuracies.
- ✔ **Time and cost overruns**
Misplacements or inaccuracies in installation could cause significant delays and cost overruns, affecting project timelines and budgets.
- ✔ **Collaboration and communication**
With multiple contractors and stakeholders involved, ensuring timely and accurate communication was a challenge, and mishandling could lead to delays and rework.
- ✔ **Remote management**
The modern work environment and project locations across the globe necessitated a solution that allowed for effective remote project management and oversight.

RB Group collaborated with CupixWorks to 3D scan and model the entire Gü site, including all existing equipment, utilities, and buildings. This detailed 3D model of the new packaging line was then integrated into the site model to ensure seamless operation and maintenance once installed. RB Group has also overseen

the partial relocation of the existing Gü packaging line to accommodate the new high-speed line. By working closely with the packaging line manufacturer, RB Group has facilitated the off-site construction, full testing, and subsequent installation of the line, ensuring minimal disruption to ongoing site production.

IMPLEMENTATION

- ✔ **3D documentation and virtual tours**
By creating detailed 3D models and virtual tours of the project's site, RB Group enhanced the accuracy of their documentation, facilitating better planning and execution.
- ✔ **Enhanced collaboration**
CupixWorks enabled seamless collaboration among stakeholders, allowing for immediate feedback and decision-making, thereby streamlining project execution.
- ✔ **Real-time updates and issue identification**
Frequent scans allowed for real-time updates on project progress. This early identification of installation errors or deviations from plans significantly reduced rework and associated costs.
- ✔ **Remote access and monitoring**
The cloud-based platform allowed team members, including designers and engineers, to access project data remotely, reducing the need for onsite visits and enabling efficient remote project management.

BENEFITS

- ✔ **Accuracy and efficiency**
The precision of 3D documentation and virtual tours reduced errors in installation, saving time and costs associated with rework.
- ✔ **Cost savings**
Early error detection and reduced need for physical site visits contributed to significant cost savings and reduced project timelines.
- ✔ **Improved collaboration**
The platform facilitated better communication among contractors, reducing conflicts and delays. It also allowed for quick resolution of issues through accurate, real-time data.
- ✔ **Client satisfaction**
Enhanced project delivery, with improved accuracy and efficiency, led to increased client satisfaction.

CONCLUSION

By integrating CupixWorks' reality capture and collaboration features, RB Group not only overcame spatial constraints and accuracy issues but also streamlined communication and project management processes. The resulting improvements in efficiency, cost savings, and client satisfaction underline the significant impact of digital tools on traditional engineering and construction practices.

ABOUT RB GROUP

RB Group provides professional engineering consultancy, design, project, and construction management services across a wide range of sectors from Pharmaceuticals to Heavy Engineering – applying vision, purpose, and cutting-edge expertise.

We undertake every stage of a project lifecycle from initial conception to commissioning, both globally and within the UK.

Our highly skilled and qualified Process, Mechanical, Civil and Structural, HVAC, CDM, Electrical, Control & Instrumentation Engineers undertake engineering projects of all sizes. These range from smaller scale projects such as plant modifications, expansions,

and upgrades, through to multi-million construction projects. We apply the same levels of client focus and professionalism to every project, regardless of size.

Our high proportion of repeat business coupled with an organically growing new customer base is no accident and reflects our unique approach that make us stand out in the market-place.



FIND OUT MORE

- ✓ Our experienced engineering team could support you on your next project. Why not contact Genghis Perriman our Business Development Manager to discuss further for a no-obligation discussion?

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