

PAPER & PACKAGING

RB Group improves production throughput and reduces waste and maintenance costs

RB Group provided comprehensive engineering and project management services for a 'paper to board' transformation facility. The results were increased production throughput and significantly reduced waste and maintenance costs, enhancing overall operational efficiency.

BACKGROUND

Corrugated cardboard is a highly sought-after packaging material. The client's facility is the only speciality sheet manufacturer within the UK, and this substantial investment project aligns with the client's year-on-year growth strategy.



PROJECT 1: SCOPE

The first project involved installing a single-face corrugator, rewinder, and materials handling line, refurbishing and relocating an existing single-facer, and procuring and installing new equipment. The RB Group team provided engineering design support and project management services for:

- ✔ Extensive civil works
- ✔ New electrical tie-ins, and controls interfacing with the site's planning and warehouse system
- ✔ Installation of a new global control system and the integration of a condensate recovery system to reduce energy consumption
- ✔ PUWER assessment of the installed plant was conducted, leading to necessary safety upgrades.

SOLUTION

Our team managed the seamless integration of the refurbished and new machinery to optimise operational efficiency, taking full responsibility for programme scheduling to ensure the project remained on track and within the £3.6M budget. We also included managing cost control, overseeing risk and change management, and providing stakeholders with regular progress updates throughout the project's duration.



PROJECT 2: SCOPE

The second project was awarded based on the success of the first, with site work scheduled to begin at the plant in December 2024. Works include:

- ✔ Replacement of the dry end of an existing corrugator with new components:
 - a rotary shear
 - pulling station
 - slitter scorer
 - high-speed cutoff
- ✔ Integration of these new components with the existing wet end and stacker, which are supplied by different OEMs.

Key tasks include ensuring the layout accommodates all operational requirements without clash points, and upgrading control systems, electrical infrastructure, and safety systems, and integrating these with existing IT applications. RB Group will manage the overall programme, ensuring cost control within a £2M budget, and oversee risk management, change management, and stakeholder progress updates.



THE BENEFIT

RB Group's comprehensive engineering and project management services for the 'paper to board' transformation facility delivered **impressive results**. The project not only **increased production** throughput but also **significantly reduced waste**, maintenance costs, and energy consumption, enhancing overall **operational efficiency** and sustainability. **Safety improvements**, driven by a detailed PUWER assessment, further ensured a safer working environment.



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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