

Paint Plant Evaluation

Case Study

Design appraisal identifies over-engineering, leading to capital savings.

Problem

Legislation is driving paint industry to solvent-free, water-based paints, which are high viscosity, shear-thinning. New equipment, specified by the supplier, incorporated larger vessels compared with old plant.

Need

Evaluation of vendor's proposed design

Solution

The design was evaluated and the characteristic velocity was identified as critical. This was evaluated with BHR Group's specialised wall-shear rate model. This showed it to be 50% lower than that assumed by the vendor.

Benefits

- Smaller gearboxes reduced the capital cost of vendor's design by £100,000
- Proportionate savings were made on a later order of an additional 10 mixers



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Contact us for more information or visit our website.

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