



POWDER HANDLING CASE STUDY

Customer

Robinson Brothers Limited

Location

West Bromwich, West Midlands,
United Kingdom

Process Summary

Manual charging of miscellaneous
powders to multiple reactors through
open manway

Customer's Problem

Manual handling created high labor usage,
dusty environment, and a hazardous
situation with the respect to the charging
of hazardous powders into reactors
containing highly flammable solvent

Powders

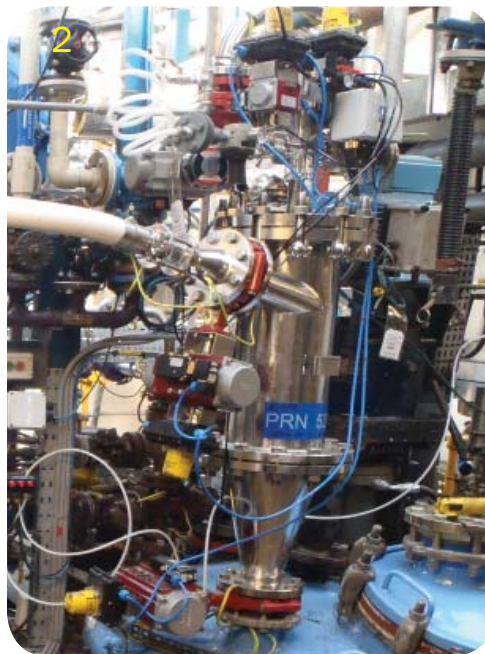
Multiple powders with varying
characteristics

DDPS Actions

Following demonstration of Powder Pump
technology at the DDPS UK facility, a test
unit was installed on site to transfer many
of the powders used in the production
operation.

Final Solution

Two reactors were each equipped with
a DN250 Powder Pump, both controlled
by a single PLC control system with HMI.
Powder Pumps and HMI panel rated for
installation in an ATEX Zone 1 area with
PLC in safe area.



1/2. Powder Pump installation
on reactors.
3. PLC control system with HMI
graphic displays.

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