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.