



POWDER HANDLING CASE STUDY

Customer

Manufacturer of lubricants for industrial and automotive applications

Location

Southeast USA

Process Summary

Charging multiple powders to mechanical mixer

Customer's Problem

- Manual charging of powders created significant housekeeping issues and was physically challenging for operators
- Powders were charged from both bags and tins

Powders

- Copper (very fine and dense)
- Diphenylphosphate
- Carbon graphite (very fine)
- Fumed silica (very light and fluffy)

DDPS Actions

Each powder was subjected to a transfer test in our Charlotte, NC facility (the tests being witnessed by the customer)

Final Solution

6-inch Powder Pump manufactured in stainless steel and operated using a PLC control system with integral HMI.

Solution Highlights

HMI programmed with multiple screens for transfer settings, each powder having a dedicated screen.



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