

Pharma: Separation Centrifuge

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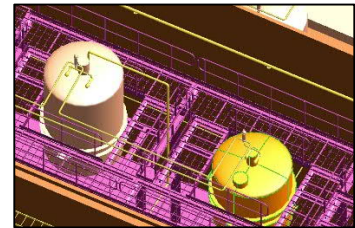
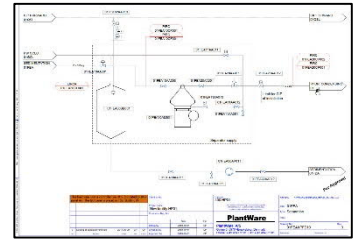
P-Engineering designs Installations for Downstream Separation by Disk Stack Centrifuges for e.g., product separation. Process Design for Batch operation. P-Engineering also have experience in bringing in used equipment for e.g., FDA compliant API-production. P-Engineering's services covers:

- PFD & PID
- Equipment Sizing – Centrifuge, Pumps etc.
- Function Description
- Process Calculation and Battery Limits conditions – Temperature and Pressure for optimal operation of Centrifuge.
- ATEX-Design with Classification including e.g., Room Ventilation
- Equipotential-Bonding
- CIP Cleaning Loop for Centrifuge including Upstream and Downstream Process Lines.
- Piping – Process, Detail Design
- Piping – Utility, Detail Design
- Foundation – Concrete Foundation for Vibration free Operation
- Pneumatic Valve Cabinets
- Instrumentation / Remote I/O
- MCC & PDB Supply
- Cable Project – Power, Signals, and Network
- Control System and SCADA Specification
- Room Acoustics and Sound attenuating Baffles

P-Engineering uses AVEVA PDMS for 3D, Solidworks for Vessel Design, DXT software for EN13480 design.

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Pictures from Construction of the Sedimentation Facility, Snap of PID, and view of the 3D Design Model. Picture from an API-factory producing Dextran.