

## Pharma: Hydrolysis Treatment P-232

P-Engineering performs design of Special Solution for Batch-based Hydrolysis (HCl) Treatment of Product:

- PFD & PID
- Hydrolysis Vessel Process Design
- Hydrolysis Vessel PED Design according to EN13445 and with internal Ceramic Coating.
- Agitator Design with Ceramic Sealing.
- Platforms and Access Stairs and Ladders
- CIP Cleaning Loop with Retractable Equipment
- Piping – Process
- Piping – Utility
- Instrumentation
- MCC and Power Supply
- Remote I/O
- Functional Description
- Control System and SCADA Specification

Deliveries of Fabrication Drawings:

- Piping – Process and Utility
- Steelwork
- Vessel with Agitator Support
- Instrument Panels etc.

P-Engineering uses AVEVA PDMS for 3D, Solidworks for Vessel Design, DXT software for EN13480 and EN13445 design.

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*Pictures from Construction of the Hydrolysis Treatment Unit. For this project the Hydrolysis Vessel was bought used in the UK as the Internal Ceramic Coating is very Expensive. Picture from an API-factory producing Dextran.*