

Parma: HPLC Purification P-238

P-Engineering has experience within Design, Manufacturing and Commissioning of HPLC Columns and we can help our clients specifying these Units and further, design the Purification Plant with all supporting Utilities.

P-Engineering designs

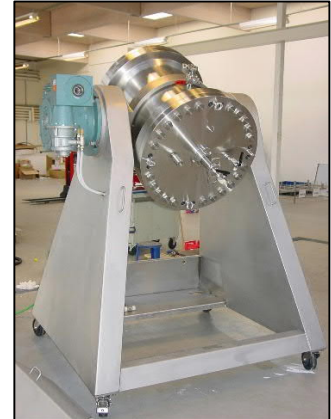
- PFD & PID
- Process Calculations
- General Arrangement and 3D Layout
- Piping Specifications EN13480
- Pipe Design including of Pipe Isometric for fabrication
- Equipment Sizing (Pumps, Heat Exchangers etc.)
- Control Valve Sizing & Selection
- Vessel Design EN13445 – Experience up to 600 barg @ 600°C and 2500 barg @ < 100°C
- Instrumentation
- Remote I/O Cabinets
- MCC's and Electrical Supply
- Cabling – Power, Signal & IT
- Process Control System Specification & FDs with SCADA and MES Specification
- ATEX Design if applicable.

P-Engineering uses e.g.

- [AVEVA PDMS](#) Software for 3D design
- [CONVAL®](#) for Control Valve Design
- [DTX](#) Software for EN13480 and 13445 Design
- [PIPE-FLO®](#) Pump Sizing and Piping Pressure Loss

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Pictures from workshop assembly of HPLC Columns. More information upon reference upon request.