Tailor-made equipment for LDPE and EVA plants
Equipment for LDPE and EVA plants from 300 up to 3,600 bar – manufactured by Uhde

Reactors up to 3,600 bar
- Tubular reactor
- Autoclave reactor including motor, electrode, stirrer, bearing, rupture disc, thermal element, etc.

Double pipe heat exchangers up to 3,600 bar
- Preheater
- Feed cooler
- Intercooler
- After cooler
- Recycle gas cooler

Piping PN325 up to PN3600
- DN120 up to PN3200
- Jacketed / unjacketed
- 3-D bends
- Long radius, cold bended
- Short radius, hot bended (inductive/forged)

Vessels up to 690 bar
- Product separator
- Knock out drum
- Wax cyclone separator
- Recycle gas separator
- Soft product separator

Reactors up to 3,600 bar
- Nitrogen buffer vessel
- Suction filter
- Initiator mixer
- Low pressure separator

S&T heat exchangers up to 375 bar
- Recycle gas cooler
- Waste heat boiler
- Soft product cooler
- Primary compressor aftercooler

Valves up to 3,600 bar
- Reactor control valve (e.g. let down valve, side stream valve, fisher replacement)
- 3 way safety valve (e.g. dump valve, blow off valve)
- On/Off valve (guard valve, blow down valve, recycle emergency valve)

Pumps up to 14,000 bar
- Modifier pump
- Comonomer pump
- Catalyst pump
- Initiator pump
- Pressure testing pump
- Autofrettage pump

Valve test station / hydraulic oil system
- Design and fabrication of central hydraulic oil system
- Valve test station for liquid and/or nitrogen test up to 5,500 bar

Recent references
Customer / Location
Sasol / USA
FPC / China
LG / Korea
Shenhua / China
Licensor / Contractor
ExxonMobil / MES
ENI / CTGI
ExxonMobil / MES
LyondellBasell / TKIS

Everything but the compressor

Pumps
- LDPE pellets
- HP and LP separators
- Let-down valve
- Reactor
- Intercooler
- Injection pump
- Injection pump
- Ethylene

Valves
- Recycle gas unit
- Blow-off valve
- Diaphragm valve
- Recycle emergency valve

Ethylene

Everything but the compressor

Engineering services
- Engineering of piping classes
- Finite-element-analysis
- Steel structure design and analysis
- Piping flexibility analysis
- Vibration analysis

Supervision and training services
- Installation supervision, commissioning and start-up assistance
- Training of local workforce
- Inspection
- Equipment overhaul

Special tools
- Sealing refurbishment
- Flange assembly tool
- Hydraulic bolt tensioner device

Annual Improvement Conference
- 3 days technical conference
- Plant operators, licensors, contractors, key suppliers
- Safety, process, mechanical, control, inspection, efficiency