

Feedstock change

from Dimethyl Terephthalate to Purified Terephthalic Acid
for polyester plants



Stable feedstock prices and a secured feedstock supply are absolutely essential for your successful business model. In this regard Purified Terephthalic Acid (PTA) has become the worldwide preferred raw material for polyester production. Uhde Inventa-Fischer Polycondensation Technologies, as part of thyssenkrupp Industrial Solutions' electrolysis and polymers business unit, offers suitable technologies and know-how to convert the feedstock used in your polyester plant from DMT to PTA in order to strengthen your competitiveness on the market.

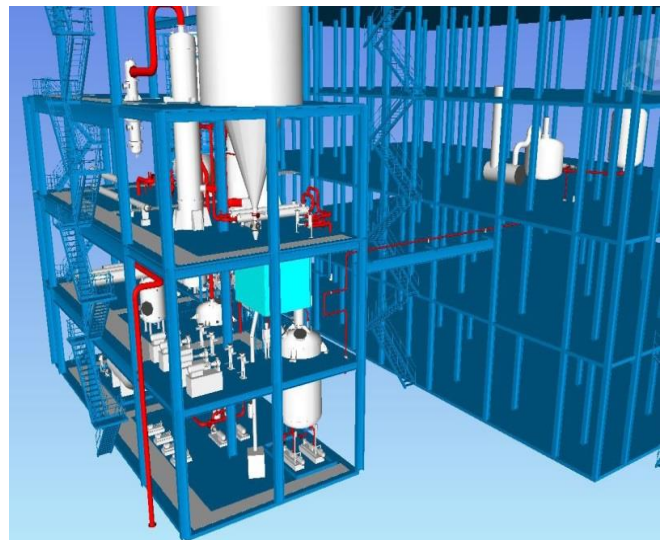
Changing the feedstock from DMT to PTA used for the production of polyester enables you to adapt your plant to changing market environment.

Scope of work

- Analysis of the technical plant parameters
- Creation of a customized revamp concept
- Preparation of the basic and detail engineering
- Supply of all relevant plant components
- Installation and recommissioning of the plant

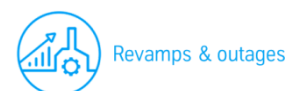
Service advantages

- PTA is more cost effective than DMT as feedstock
 - Lower market price
 - Reduced feedstock consumption by using PTA
 - No catalyst is required for PTA esterification
- The supply of PTA is well secured due to high existing and upcoming production capacities
- More stable feedstock prices provide a degree of certainty in planning



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360° Service

Service solutions throughout the entire life cycle of your plant



thyssenkrupp



Parts & supply management

We are the experts when it comes to the supply with spare and wear parts for your plant – over the entire lifetime, at the right time and with the right quality.

Spare parts supply

- All spare parts and components for your asset in OEM quality
- Always state of the art technology with guaranteed functionality
- Attractive frame contracts and supply agreements

Wear parts solutions

- Development of wear parts according to your requirements
- Individual solutions in regards of quality and performance
- Innovative wear parts concepts

Advanced parts solutions

- Engineering and manufacturing of individual spare parts
- Continuous further development of spare parts and components in order to increase the performance of your plant
- Spare and wear parts for plants genuinely not developed by thyssenkrupp



Field & workshop services

We offer you local assistance when it comes to overhauling spare and wear parts, or when maintenance and servicing is needed.

Technical inspections

- Forward-looking inspections of machines and components

Repairs and field support

- Fulltime site support and advice after handover of equipment
- Fault identification and emergency repair of components
- Installation and dismantling
- Equipment adjustments and alignments

Workshop services

- Local fabrication of spare parts
- Refurbishment and supply of thyssenkrupp and third party components

Operator & maintenance training courses

- Customer training for all areas of thyssenkrupp portfolio
- Utilization of product experts within thyssenkrupp's global network



Revamps & outages

Over the course of time, demands change. In order to meet these changed demands, we offer you custom-tailored revamp solutions.

Analysis, engineering and manufacturing

- Plant status and environmental analysis and assessment
- Feasibility studies
- Basic, front-end and detail engineering
- Manufacturing of individual equipment

Plant improvements

- Custom-tailored revamps and retrofitting solutions
- Debottlenecking through capacity extensions
- Efficiency enhancement through modernization and upgrades
- Emission reduction
- Safety and integrity upgrades
- Reliability improvement

Revamps execution up to EPC

- Execution of complex revamp and outage projects
- Execution of EPC revamps projects
- Custom-tailored risk and profit sharing models

Turnaround management

- Management of plant turnarounds



Asset management

We offer you a holistic asset management approach in order to reduce the overall operating expenses of your plant.

Consulting & audits

- Evaluation and assessment of effectiveness and efficiency
- Process mapping and gap analysis
- Derivation and supervision of improvement measures

Technical guidance

- Implementation of improvement measures
- Technical improvement of existing machines and components
- Strategic analysis and future planning
- Improvement of processes and procedures

Operation & maintenance contracts

- Complete or partial take-over of maintenance and/or operations activities
- One-stop operation and maintenance solutions including parts and consumables
- Custom-tailored business models focusing on a win-win situation

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