



Distillation columns

Distillation columns

Troubleshooting Process Engineering

Problem solution during operation

- Pressure control optimization at the gas collecting main
 - Coke Plant in France
- Reduction of tar water content in the tar separator by hydro-dynamic simulations
 - Coke Plant in Belgium
- Optimization of the process control to minimize deposits in the coke oven gas network
 - Coke Plant in Korea
- Realization of energy saving potentials in the pressurized air and steam network
 - Coke Plant in Germany
- Increase of efficiency of distillation columns
 - Coke Plant in Korea

Our services Coke Making Technology

If your projects require process oriented planning and also safe execution, then DMT is a capable partner whose coke making technology division covers the whole spectrum of process engineering with innovative solutions.

- **Refurbishment of coke plants** – Development and implementation of projects during operation of the coke oven gas cleaning plant
- **Plant extension and modernization** – Planning and turn-key supply of coke oven gas cleaning equipment
- **Development of innovative products and process engineering solutions** – Innovative PROVen© system for single-chamber pressure control, new furnace door gasket and door cleaning system, optimized processes for gas cleaning, dust emission reduction at the quenching tower, increase of the efficiency by process optimization.
- **Consulting services** – Layout optimization of equipment or components for the efficient utilization of (the resource) coal, concepts to solve operational problems

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Coke Making Technology – Next generation technologies



Claus Plant for Sulphur Production



By-product plant



Door-cleaning-manipulator



By-product plant



By-product plant at Coke Plant Burnpur, India Current projects

Design of a complete by-product plant for 45.000 Nm³/h coke oven gas:

- Tar separation
- Primary gas cooler
- Tar filter
- Gas exhauster
- Ammonia and hydrogen sulfide scrubbing system
- Naphthalene scrubber
- Claus plant
- Stripper and de-acidifier
- Ammonium sulfate plant
- Naphthalene recovery

Contract includes:

- Basic Engineering of the complete by-product plant
- Delivery of key components for the processes
- Support of erection supervision and commissioning

This project is accomplished in partnership with McNally Bharat Engineering Co. Ltd., Kolkata, India.

Completion: Mai 2011
Project duration: 41 months

Door-cleaning-manipulator for coke oven doors – Completed projects

Development of a door-cleaning-manipulator for contactless continuous cleaning of tar condensates at coke oven doors by pressurized air.

Contract includes:

- Basic- and Detail Engineering of the manipulator system
- Delivery, installation and commissioning of the system
- Monitoring of operations after commissioning

This project is accomplished in collaboration with RAG Coke Plant Prosper, Bottrop, Germany.

Completion: April 2010
Project duration: 36 months

By-product plant at Coke Plant Meramandali, India – Current projects

Design of the following units of a complete by-product plant for 75.000 Nm³/h coke oven gas:

- Ammonia and hydrogen sulfide scrubbing system
- BTX scrubber
- Claus plant
- Stripper and de-acidifier
- BTX recovery / extraction

Contract includes:

- Basic Engineering of the above mentioned units
- Delivery of key components for the processes
- Support of erection supervision and commissioning

This project is accomplished in partnership with Paul Wurth Italia S.p.A, Genua, Italy.

Completion: March 2012
Project duration: 44 months

