



Our other major activities involve:

- erection of thermal power plants
- erection of waste incinerators
- erection of pharmaceutical plants
- erection of central heating systems
- prefabrication and site erection of piping systems
- manufacture of industrial equipment, meeting the requirements of chemical, petrochemical and pharmaceutical sector



TMC META PROJECT
Construction and integration of
new methathesis plant with an
already operating ethylene
production plant.

Burghausen

Project data:**Customer:**

Kraftanlagen München

Designer:

ABB Lumus Global GmbH

Time of implementation:**Prefabrication:**

from December 2006 until August 2007

Site erection:

from April 2007 until October 2007

Shut-down period:

November 2007 (5 weeks)

Halbo's scope of responsibility:

Our responsibility included prefabrication and site erection of above-ground piping of a methathesis plant as well as the connection of the new plant to an existing, similar facility within a period of 11 months.

Description of the project:

Installation of the piping systems at the new and at the existing plants required only 7 months. We faced extraordinary challenges due to highly congested space and well above average number of connection points as well as strict safety conditions. We installed a combined length of 10 000 m, mainly carbon steel piping with DN 150 average diameter – the largest diameter being DN 1400. At hot spots pipes of P11 and at cold spots TT and SS pipes have also been installed. The percentage of errors with 15500 welded connections had proved to be merely 0.83.

623 connections were made in the 5 weeks shut-down period, including their inspection and pressure testing - simultaneously with the normal overhauling of the old plant.

During the peak periods of erection and commissioning of the project 90 personnel from Halbo had been present at the site, working a total of nearly 140 000 man hours without any accident. The plant owner awarded our accident-free performance with extra premium.

**Performance data:****Project management:**

We have successfully adapted ourselves to the project management system of the owner as well as to material handling and WSD documentation systems of ABB and LINDE AG.

- Progress: 1275 isometric sections
- Pressure tests: 325 pressurized circuits
- Quality: welding of 15500 welds with inspection (NDT) of 9300 welds respectively.

Performed work:

In implementation of the methathesis plant project our company carried responsibility for prefabrication and site erection of above-ground piping and the connection of the system with an existing, on-line plant. Further details:

material handling (integrated with that of the owner)

prefabrication and site erection of 600 t pipe and armature, without valves

dismantling of old piping, 160 tons.

erection of 29 tons pipe-support

pressure testing

documentation

quality assurance and inspections

labour safety:

- observation of SCC** provisions
- stipulations of the relevant contract

