

Installation of self-supporting API lines, Lerche Shaft



Scope of Work

Installation of various API lines and a 2 level main bearing arrangement

Client

Deutsche Steinkohle (DSK)

Project Location

Hamm, Germany

Duration

Pipeline installation
May/June 2002

Technical Data

- End depth shaft Lerche: 1350 m
- Installation of a 2 level main bearing arrangement for the 9 API lines at a depth of 100 m, consisting of a 10.80 m long and 2.0 m high, 3-part main bearer
- Total weight of all pipeline including filling: 1510 tons

API line		Connection	Installed by
Cooling water supply*	18 5/8"	Big Omega IS	1.200 t tracked crane
Cooling water return	18 5/8"	Big Omega IS	1.200 t tracked crane
Inertisation line	8 5/8"	BDS	500/600 t truck crane
Drop water pipe	8 5/8"	BDS	500/600 t truck crane
Compressed air	6 5/8"	BDS	500/600 t truck crane
Construction material line 2 x	5 1/2"	BDS	500/600 t truck crane
Fresh water	4"	TDS	500/600 t truck crane
CaCl ₂ line	2 7/8"	TDS	500/600 t truck crane

*- The cooling water supply pipe was additionally insulated with foam glass after assembly in order to keep the cold loss as low as possible.

Special Features

- Tracked cranes of type LR 1600/1 for loads up to 1.200 t
- Installation of 9 pipes in only 15 working days