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## Hyper Compressor to China for Polyethylene Plant

**Burckhardt Compression delivers a K8 hyper compressor to China for the polyethylene plant in the Daqing Petrochemical Corporation.**

Burckhardt Compression recently recorded an order from China Petroleum Material and Equipment (Group) Corporation in Beijing, China, for the Daqing Petrochemical Corporation in China, who operate a smaller F8 hyper from Burckhardt Compression successfully for many years. The new contract comprises one hyper compressor.

The compressor is used to compress ethylene to a discharge pressure of up to 3100 bar for the production of low density polyethylene of which 200'000 tons/year are produced. Only experienced manufacturers can handle the complex specifications and supply the adequate equipment. The compressor is scheduled to be delivered by the end of 2003. The total weight of the compressor will be approx. 160 tons. Burckhardt Compression's subsidiary in China supported the company in securing the order and will be involved in the installation and after-sales service for the equipment.

Hyper compressors are used in the petrochemical industry for the production of low density polyethylene (ldPE). The hyper compressor is one of the key components to run a low density polyethylene plant, with discharge pressure up to 3500 bar (50,000 psi), flow greater than 100'000 Nm<sup>3</sup>/h (59,000 scfm), and shaft power up to 35'000 kW (47,000 HP), depending on the process. Burckhardt Compression built the world's most powerful compressor, driven by a 23'500 kW (31,500 HP) electric motor and compressing 128 tons/hr of ethylene to a discharge pressure up to 3100 bar (45,000 psi) in 1999.

Burckhardt Compression is a world leader in reciprocating compressor technology and the only manufacturer of a complete series of labyrinth piston (Laby®), process gas, and hyper compressors for numerous applications. Their compressors are used in the field of oil refining, chemical and petrochemical industries, air separation, as well as gas transport and storage. Burckhardt Compression's worldwide service network ensures a wide customer support service; analysis of compressor performance, complete plant overhaul, consultation and fulfilling extensive maintenance contracts.

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