

MEHRER COMPRESSION GMBH

Having been established in 1889, Mehrer is one of the oldest and most traditional compressor manufacturers in the world. As a partner of the process gas industries, the company specialises in fail safe, economical and completely oil free compression of gases, gas mixtures and air. This technology, in which it is essential that the compression medium does not come into contact with oil during the compression process, requires wide ranging and long standing experience. Mehrer pioneered the work decades ago using dry running compressors with a crosshead design. Today, its modern and sophisticated oil free dry running piston and diaphragm compressors provide the highest reliability and value in process engineering.

Customised compressor technologies

For 100% oil free compression Mehrer offers customised technologies with dry running piston and diaphragm compressors in a vertical, horizontal or V design. Depending on the individual gas composition, the company uses a variety of materials that are in contact with the media. The material used is adapted to the customer's requirements, for example the use of colour free metal for aggressive media to ensure reliable and durable operation.

Options for premium quality

In many processes (water supply, health care, pharmaceuticals and chemicals) the compressed media are subject to special requirements. In these cases Mehrer uses additional options, such as filters and sterile filters for separating solid particles, gases and bacteria, after coolers, refrigeration and adsorption dryers.

Hydrogen as a recycling gas in a refinery

One example application is the compression of hydrogen at the refinery of an Indonesian customer. In this plant, three oil free,



TRE 300 Aggregat.

single stage piston compressors type TRE 300, which were specifically designed for customers' requirements, are used as hydrogen recycling compressors. In this process, hydrogen, which is generated in a hydrogen steam reforming plant, operates as a recycling gas that is reinjected into the process under high pressure. The make up unit operates at a drive power of 7.5 kW and at a flow rate of 96 Nm³/h. The two frequency controlled recycling units operate at a drive power of 11 kW and at a flow range between 262 - 484 Nm³/h.