

# TWO-STAGE, WATER-COOLED COMPRESSOR

## TRZ 1000

The new compressor TRZ 1000 – since decades, a systematic further development of proven Mehrer dry-running compressors:

- completely oil-free compression of process gas
- energy-efficient belt or direct drive
- vertical, space-saving design
- very smooth running
- minimal life-cycle-costs
- suitable for all neutral, inert and many flammable, aggressive and toxic gases



## Our strengths

- completely oil-free compression
- compact vertical design
- high efficiency
- high availability
- delivery of compressor units or “plug and play” compressor systems – mass flow approx. until 1.100 kg/h\* and 600 Nm³/h
- proven, reliable branded product
- short delivery times
- worldwide service

\* CO<sub>2</sub>: higher volume flow upon request

## Your benefits

- clean carbon dioxide
- no complex & expensive cleaning procedure
- highest production and process reliability
- minimal production space requirement
- simple maintenance
- low energy costs
- no production losses
- scope of supply that is customized to the application
- long lifetime
- cost savings due to shortened project life span
- prevention of unscheduled production shutdowns

### CYLINDER BLOCK

Due to the modular design of the cylinder block, the compressor can be adapted according to its compression requirements.

### LANTERN

The lantern is the key to oil-free compression.



### CRANK GEAR

Our extremely robust crank gear ensures high availability of the system through the crosshead design.

### LEAKAGE AND PURGE GAS CONNECTIONS

Due to the built-in connections, the compressor can be purged with inert gases. This allows also corrosive gases (e.g. high H<sub>2</sub>S content) to be compressed.

### GAS GLAND

This assembly separates the gas section of the compressor from the drive section. It prevents gas from the compression space from getting into the lantern. The gas gland is designed according to the application.

## Technical Data

| Series                                   | TRZ 1000               |
|--|------------------------|
| Description                              | 2-stage, double-acting |
| Max. compression ratio per stage         | 1 : 5                  |
| Max. suction pressure                    | 2 bara                 |
| Max. final pressure*                     | 26 bara                |
| Stroke volume per 1 crank revolution     | 21903 ccm              |
| Max. drive power on the shaft            | 125 kW                 |
| Speed range                              | 380 – 940 rpm          |
| Arrangement of the cylinders             | Series                 |
| Type of drive                            | Belt/Direct Drive      |
| Compression of toxic and flammable gases | Possible               |
| Compressor cooling                       | Water-cooled           |

\* Relieve pressure safety valve, operating pressure max. = 0,9 x max. final pressure

## Get in touch with us!

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