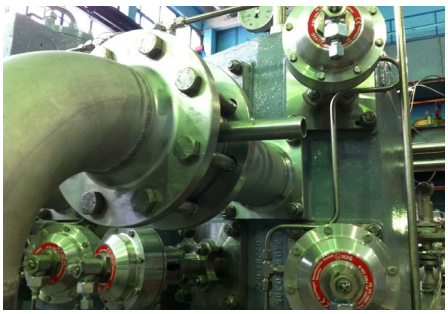
CASE STUDY

A leading petrochemical company in Russia and Eastern Europe required an upgrade of two propane compressors. The company awarded HOERBIGER to do the job.

Process modernization resulted in optimal reliability and efficiency

Compressor manufacturer: KOHO Kompressorsysteme			
Type	TWZ 14.33 / 885.661 / 5	Gas	C_3H_8
Power	160 kW (218 hp	Suction pressure	1.0 bar (14 psi)
Speed	590 rpm	Discharge pressure	15 bar (218 psi)
Lubrication	no		



Step control system

Compressors ready to ship

Both compressors running on site

Facts in Brief

The plant was flaring propane vapour from its outdated refrigeration unit. The customer decided to convert the unit and requested two boil-off compressors so that the propane could be re-compressed, liquefied and returned to storage.

Customer requirements

- Short lead time: 10 months
- Reliable solution: 24,000 hours mean time between maintenance (MTBM)
- Energy-efficient configuration

Solution applied

- Efficient compressor valves
- Pressure packing rings made from HY54 PTFE compound
- Manufacturer commissioned the two compressor packages
- Added compressor step control system
- Compressors started up
- Operational test

Results

- Project delivered in exactly 10 months
- Compressors have run safely and reliably since installation
- No more propane flaring