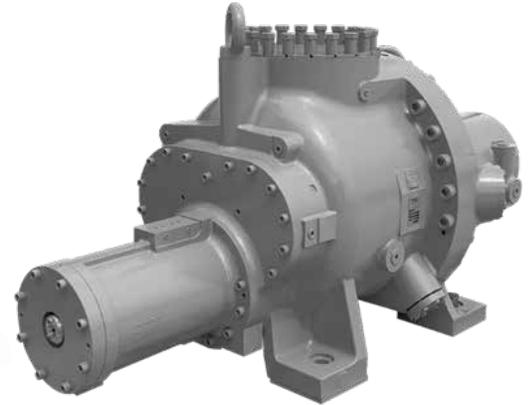




FRICK® High Pressure Screw (HPS) 407

Continuing the evolution of rotary screw solutions

FRICK is excited to announce the new HPS 407. This compressor is the largest-capacity machine in our line of high-pressure compressors. This unit brings screw compressor reliability and flexibility to higher pressure applications, such as fuel gas boosting, district heating and large ammonia heat pumps, through its ability to deliver pressures up to 1,100 psi (76 bar).



- High efficiency and long life
- Low starting torque
- Bearing design allows for simple onboard vibration monitoring for predictive maintenance without expensive proximity probes
- No external oil pump needed in most cases for lower startup and running costs

747 jet engines have anti-friction bearings - shouldn't your compressor use the same high-quality components?

Flexibility

The HPS 407 uses a slide valve for capacity control from 100 percent to approximately 10 percent. It also uses a slide stop for variable volume control. This provides an unprecedented flexibility of operating pressure ranges in comparison to centrifugal or reciprocating compressors.

Lower maintenance costs

The HPS 407 does not use suction and discharge valves like reciprocating compressors do and does not require costly valve replacement as reciprocating compressors always do. Screw compressors also have fewer moving parts, which means less maintenance and higher reliability.

Reduced upfront investment

The lower gas pulsations from screw compressors do not require massive concrete foundations.

Features	Benefits
Anti-friction bearings	High reliability, reduced horsepower and predictive maintenance
Volume ratio control	Variable Vi options reduce power consumption and increase flexibility
Internal oil passages	Reduces the potential for leaks
Shaft seal	For long life, reduce leakage and high reliability
All critical components are easily accessible	Easy to service and maintain
Hermetically sealed indicator transmitters	Slide valve and slide stop control without contacting process gas
Balance pistons	Controls axial loading on bearings

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