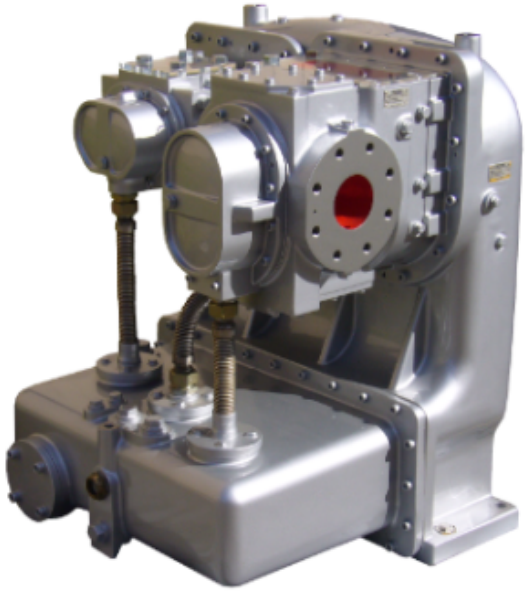
Double Stage Oil Free Airends

Decades of experience in the construction of compressor design enable us to deliver leading oil free air screw compressor airends. The compressor stage is directly flanged onto a gearbox, resulting in an integral solution including oil-tank, oil-pump and oil-filter. Protection of corrosion in the compression chamber is reassured with the application of unique ULTRACOAT. The second stage or the high-pressure stage is flanged onto the gearbox beside the low pressure stage. Mounted on anti-friction bearings the rotors run absolutely free without contact.

Features

High performance reliable 2-stage oil free compressor blocks for continuous operation in demanding applications including: chemical, automotive, pharmaceutical, food and beverage industries, air separation systems, etc.



- Totally oil free air compression
- Lifetime compression efficiency: rotors and internal housing surfaces treated with Ultracoat (Our coating prevents corrosion and improves the efficiency of the compression process. Ultracoat has an exceptionally long life and is resistant to high temperatures and pressures.)
- No corrosion due to stainless steel rotors in the high-pressure-stage
- GHH RAND rotor profiles for high efficiency
- Robust design reliable in operation under the most difficult conditions
- Over 60 years market experience in oil free compressor units!

Ultracoat

Using Ultracoat in our oil free compressors is the key to their reliability, long life, and excellent efficiency. The outstanding efficiency of our dry-running screw compressors is down to our coating (Ultracoat) which we use for coating our rotor profiles, sealing journals, housing bores, and end covers.

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This coating fulfills two essential requirements:

• One is for improving the efficiency which also reduces discharge temperature of the air end, increasesvolume flow, and decreasespower consumption.

• In addition, this coating offers highly efficient corrosion protection even under extreme conditions at 270°C.

In order to achieve high efficiency, the Ultracoat sacrificially wears during the first test run. This is like lapping in components which ensure that the clearancesare as small as possible and this, among other things, is what makes our oil free machines so efficient.

Starting in 1991, GHH-RAND did extensive work with the research department of a world acclaimed University with the goal to develop the best coating in the industry. In early 1995, we then finalized its development in cooperation with a well-known manufacturer of coatings, where we came up with one of the best solutions with exceptional bonding qualities. This gave us the efficiency, durability, and long life that we needed and "Ultracoat" was born.

To this day we remain committed to giving our customers the best possible oil-free air end and, as technology advances,we continue to further develop our high-performance coating systems.Put simply, Ultracoat is the best dry screw coating available.