



**VACUUM
PUMPING UNITS**

TOP
EXPERT
SOLUTIONS

Setting the pace in vacuum
equipment engineering.

At a glance: VACUUM PUMPING UNITS

A variety of applications in process engineering is performed by means of vacuum. For an optimum and efficient process flow, technically mature and reliable vacuum pumping units are needed. Besides the selection of appropriate vacuum pumps, the arrangement and combination with other components like condensers, measuring instruments and control valves play a key role. HEDRICH has more than 50 years of experience in the construction of pumping units and builds these units as part of its own equipment as well as for customized individual pumping units.

ADVANTAGES OF VACUUM PUMPING UNITS

- Application of pumps of renowned suppliers
- Pumping units with different ultimate vacua and pumping speeds, depending on the application
- Pumping units with different pump technologies
- Complete solutions for individual requirements





Vacuum Pumping Units

HEDRICH constructs and builds vacuum pumping units – for application in its own equipment or as independent units. HEDRICH uses vacuum pumps of renowned suppliers which are integrated in pumping units together with condensers, measuring sensors and electric control systems depending on the requirements and customer specifications.

ADVANTAGES OF VACUUM PUMPING UNITS



- Calculation and design according to requirements and customer specifications
- Complete construction and setup including condensers, measuring sensors and electric control system
- Use of vacuum pumps of renowned suppliers
- Explosion-proof pumping units for use in zone 1 and 2
- Application of different pump technologies

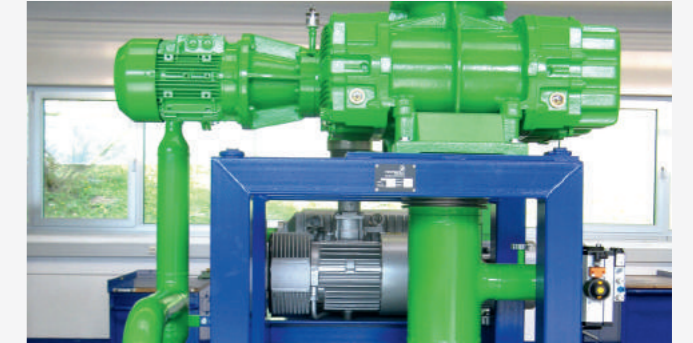
→ COMPLEXITY

The process-specific pumping units of HEDRICH do not only consist of vacuum pumps. They also include condensers as well as circulation systems for operating liquid as well as the measuring and control technology. The electric control system allows manual or automatic operation depending on the application or customer request.



→ PUMPING UNITS WITH OIL-SEALED BACKING PUMPS

In the most commonly used and most widespread design worldwide, the backing pumps are operated with special vacuum pump oil as sealing agent. By combining the pumping units with Roots pumps, they can be used for most different applications.



→ VACUUM PUMPING UNITS WITH DRY RUNNING BACKING PUMPS

In many production facilities dry running vacuum pumps – mainly screw pumps – established themselves in recent years. Since no condensation is to be expected because of the relatively high operating temperature, the pumping units are partly operated without condensers. However, for the use in hazardous areas special precautions apply.



→ VACUUM PUMPING UNIT WITH LIQUID RING PUMPS

Liquid ring pumps are frequently used, in particular in chemical industry. Besides water, other sealing agents can be used as operating media, like e.g. kerosene in the vapour phase process. In combination with Roots pumps, pumping units with high pumping speeds and good ultimate vacuum are thus created.



APPLICATIONS

- Chemical industry
- Transformer industry
- Plastics industry
- Metallurgy
- General vacuum generation



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PROGRESS

is feasible.