A leader in adsorption technology, Linde Engineering has designed and supplied over 500 pressure swing adsorption (PSA) plants globally - including some of the world's largest. Our well-proven units are designed for the recovery and purification of hydrogen from hydrogen-rich streams, such as synthesis gases from hydrogen reforming processes, partial oxidation or gasification. PSA is also applied for recovery and purification from off-gases in refineries, petrochemicals, and ammonia purge gas.

Capacities range from a few hundred Nm³/h to large scale plants at over 400,000 Nm³/h. Hydrogen product meets purity requirements up to 99.9999 mol-% and is achieved at highest recovery rates.

Linde's experts help you select the right PSA system for your business needs, balancing your requirements with investment cost.

- **Advantages**
  - Availability - with a reduced number of adsorbers, adsorber group isolation and redundant control system, our PSA units achieve virtually 100% on-stream performance and availability
  - Flexibility to adjust to varying feed gas conditions and hydrogen demand
  - Modular design and prefabricated equipment minimize schedule and cost
  - Maintenance is simplified, with valves and instruments easily accessible
  - High quality and reliability thanks to rigorous selection, testing and approval of components

- **Scope of supply**
  Scope can be adjusted to best suit your needs. Feed gas or tail gas compressor systems can be supplied as an integrated PSA solution.

  Linde's typical scope of supply includes:
  - Prefabricated valve skid
  - Adsorber vessels
  - Specially selected adsorbent material
  - Tail gas drum
  - Process control system

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