PDC Machines Inc.

1875 Stout Drive
PA 18974 Warminster USA

Products / Applications Certificates

Contamination-free & Leak-tight Compression, where ultra-high purity is required

PDC Machines is an ISO 9001:2008 certified company that provides engineered solutions for specialty gas and chemical processing equipment worldwide. Our state-of-the-art products are the preferred choice for a variety of industrial/specialty gas, renewable energy,
general industrial and petrochemical applications. We earned a reputation for providing reliable compression systems backed by superb world class customer service and technical support. Our compressor systems have minimal maintenance requirements, are easily maintained and are supported by factory inventory of critical, consumable spare parts.

Our compressors are used in virtually every industry where non-contaminating, leak tight compression of gases is required. Our compressors can process industrial, hazardous, rare, pyrophoric, environmentally damaging, toxic and corrosive gases as well as a variety of gas mixtures.

We provide standard and custom designed diaphragm compressors with a comprehensive assortment of options to meet any application. Discharge pressures range from 50 psi to 60,000 psi (3.4 bar to 4137 bar), power consumption from 3 hp to 250 hp (2 kW to 187 kW) and flow rates depending on compression ratio up to 4,000 Nm³/hr.

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Products / Applications
Diaphragm compressors for hydrogen vehicles, buses and material handling

PDC Machines has developed partnerships with the largest gas producers, researchers, and technology companies to create practical and commercial worldwide acceptance of hydrogen as an energy source. PDC's gas compression equipment can be found in commercial installations worldwide for hydrogen refueling of vehicles, buses and material handling vehicles. Today our expertise in hydrogen fueling is demonstrated globally with more than 200 compressors installed in variety of hydrogen energy applications.

Diaphragm compressors for 350 bar and 700 bar gas compression

PDC Machines is the leader in engineering and manufacturing practices and methods used for the production of 350 and 700 bar gas compressors. This, in part, has enabled these applications to further develop from the demonstration phase to commercialized solutions in this emerging marketplace. In addition to our 700 bar compressor options, PDC can also provide up to 1000 bar solutions for specialized applications. Flow rates from 7.5 to 350 kg/h (81 to 4,000 Nm³/h) are possible for fueling hydrogen fuel cell-powered vehicles.
Diaphragm compressors for material handling vehicles

PDC compressors have also found application in commercial distribution facilities. Lead/acid battery operated fork lifts and material handling vehicles are converted using fuel cell power packs which are fueled with compressed hydrogen. Here, compressor typically operate at discharge pressures to 7,500 psig (517 barg) and flow rates from 5 to 25 kg/h (50 to 280 Nm³/h).

Certificates

PDC Machines containerized solutions

Based upon customer design and specifications, PDC Machines can package hydrogen stations inside standard shipping containers.

Certifications/Codes and standards

PDC Machines is ISO-9001-2008 certified
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