

ModulLine Vacuum Gauges



Bayard-Alpert



Extractor



Pirani



Cold cathode

Customer benefits

- Radiation hardened vacuum gauges from atmosphere to ultra-high vacuum
- Separate measurement electronics, the control unit can be placed in a safe distance
- Maintenance on-site without need to leave the radiation area

Vacuum Solutions for Your Accelerator Application

Customer benefits

- Radiation hardened turbopumps without semiconductor parts to achieve high to ultra-high vacuum
- Separate drive electronics, the control unit can be placed in a safe distance
- Maintenance on-site possible
- Low vibration, outstanding durability and long service intervals due to new laser ballanced rotor
- Highest compression ratio for light gases

HiPace Turbopumps



HiPace turbopump



Drive electronics TCP 350

Vacuum Chambers and System Components



Customized chamber



Standard components



Customized chamber

Customer benefits

- Extensive range of standardized vacuum components with perfect compatibility
- Customized chambers produced from high quality materials
- Handling compatible for ultra-high vacuum specifications

Customer benefits

- Dry multi-stage roots pumps with outstanding cleanliness, vacuum generation free from oil, particles and fluorine
- Oil-free scroll pumps with low power consumption and long lasting robust design
- Diaphragm pumps with AC or DC motors, to generate ultra-high vacuum in combination with high compression turbopumps

Oil-free Backing Pumps



Scroll pump

Multi-stage Roots pump



Diaphragm pump

Ion Sources and Diagnostics Components



Ion source



50 kV irradiation facility

Customer benefits

- Electron Beam Ion Sources (EBIS) for highly charged ions
- Electron Cyclotron Resonance Ion Source (ECRIS) for high ion beam currents
- Ion and electron beam optics and diagnostics as well as complete irradiation facilities

Leak Detectors / Residual Gas Analysers



Helium leak detector



Mass spectrometer

Gas analyser

Customer benefits

- Verification of the vacuum quality, leak tightness and residual gas analysis
- Easy to operate leak detector for helium and hydrogen on masses 2,3,4
- Compact or modular quadrupole mass spectrometers for residual gas analysis in high and ultrahigh vacuum applications

Remote Electronics



Customer benefits

- Display and control of radiation hardened pumps and gauges
- Serial communication and optional field bus interface
- Rack mount compatible
- Integrated power supply

Angle Valves and Gate Valves

Customer benefits

- Robust gate valves with low flow restriction
- Angle and inline valves
- Optional actuation methods: manual, with pressurized air or electromagnetic



Gate valve



Angle valve

All data subject to change without prior notice. (PI0494PEN June 2022/PoD)

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