



Compressor Controls

WHY HPI?

Our team has extensive experience with over 70 turbine models from more than 23 manufacturers in multiple markets: Power (Peak and Prime), Oil & Gas Processing and Transmission, Power Plant EPC. We provide open control systems based on commercially available, off-the-shelf technology, reducing life-cycle costs.

ABOUT HPI

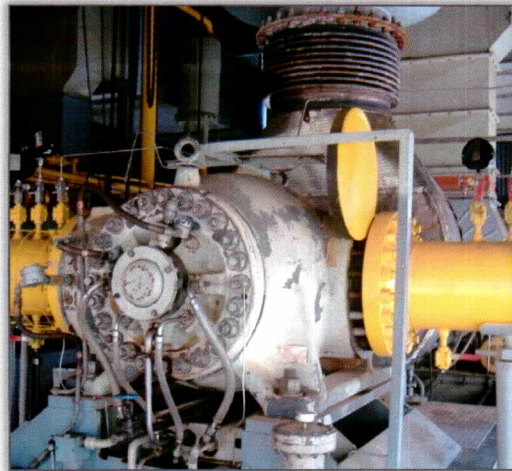
HPI remains a technological leader in providing full service turbine solutions. HPI's range of products and services include turbine and plant control packages, mechanical inspection/overhaul services, as well as full turnkey Engineering, Procurement, and Construction (EPC) of power plants. HPI provides custom solutions to meet each specific project requirement by utilizing in-house talent experienced in project management, engineering, and design which improves overall plant reliability and safety.

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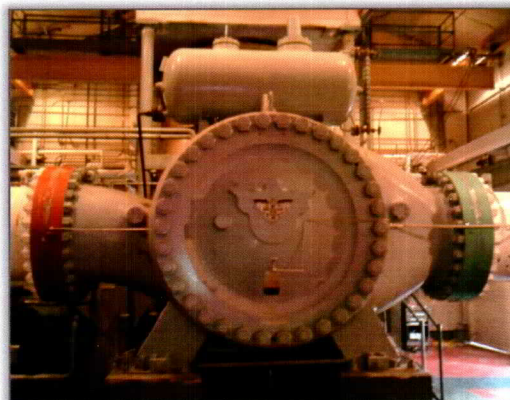
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HPI professional project teams specialize in the design of hardware and software systems, manufacturing, testing, installation, commissioning, and support of turbo machine control systems. HPI designs each control system for each site's requirements and plant layout, avoiding a "one size" fits all approach. We are responsive to the customer's needs and will utilize our experience and the control system's inherent data sharing capabilities to provide an integrated controls solution allowing multiple units in a product train to operate together from a common control point.



Control Solutions for Compressor Issues

HPI offers control solutions for compressor issues such as:

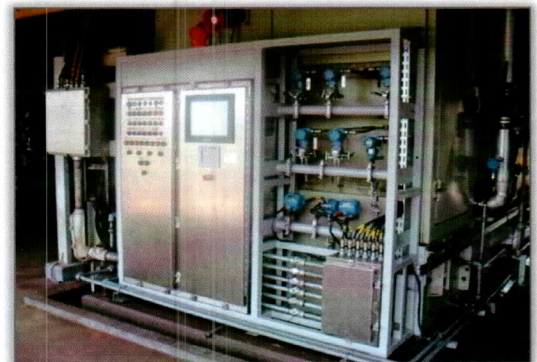
- Unbalanced loads
- Surge conditions
- Excessive vibration
- High fuel usage
- High recycle rate
- Reduced throughput
- Varying load, flow and gas composition

Load share and load control:

- Series and parallel operation

Standard and well proven algorithms for:

- Flow control
- Suction and discharge pressure control
- Inter stage pressure control
- Flow and valve balancing



Benefits:

- Anti surge software embedded into PLC
- Automatic surge line and operating point compensation for single stage and multi stage compressors
- Tight integration with millisecond response
- Feed forward controls on single trains and multiple trains
- Solutions based on the customer requirements