

P-Wave: Super-high pressure

for boiler cleaning thanks to Bachofen modules

The customer

With its patented Power Wave technology for generating super-high pressure, the Swiss specialist company P-Wave is revolutionising boiler cleaning in refuse incineration plants and coal power plants.

The initial situation

The Power Wave Generators from P-Wave generate a supersonic pressure wave in a pressure chamber using compressed air and deflagration of propane, effectively cleaning even the tiniest ash particles in the boiler. The powerful devices are composed of various control and drive components, which are painstakingly assembled in-house by P-Wave. This is a classic scenario for an efficient module solution from Bachofen.

Project requirements

- ▶ Modules tailored to the application
- ▶ PWG boards with ATEX components
- ▶ Minimal number of fittings and pipes
- ▶ Extremely high seal tightness
- ▶ Optional: closing ball valves and pressure regulators with protective cover
- ▶ Operating instructions in three languages



Pressure regulator and valve boards control the generation of supersonic pressure waves for boiler cleaning.

Bachofen's solution

With the provision of individual components such as solenoid valves and manometers, Bachofen has long been one of P-Wave's main suppliers. The design and development team now has the opportunity to demonstrate their engineering expertise with valve blocks. The Bachofen engineers delve into the issue, exchange ideas intensively

with the designers at P-Wave and present various solution options. The result is a comprehensive solution that integrates solenoid valves, manometers and ball valves into ready-to-install PWG boards. Compressed air is controlled centrally via CPR boards using, pressure regulators. The module solution from Bachofen also makes it possible to remedy previous problems with seal tightness.

«Bachofen's solution-oriented interest in our product and the high level of expertise of Bachofen's consultants have convinced us»

Tobias Mettler, Managing Director of P-Wave

Project technology partner

