

GI 3000

Application bench for high pressure gasoline injection systems



Special features

- Highly flexible test bench systems
- For use in the gasoline technology field for complete gasoline direct injection systems and for testing individual components
- Explosion-proof design
- Test bed control using Moehwald Prisma NT software
- Compact design and high reliability
- Control electronics on 19" sub-rack system in positive pressure encapsulated cabinets
- Suitable for use in development/application and in the production environment
- Designed according to European ATEX Standards

best testing – best quality

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General

This highly flexible test bench system is suitable for testing in development/application on complete high pressure gasoline injection systems or on individual components. The engine manufacturer can use it for investigating the dynamics of his injection systems. With these test benches, we can draw on established knowledge and experience from projects with OEM suppliers and with Bosch.

The test bench performs so well because of our experience and the innovation of our customers.



Quick change module

Setup

- Designed to be explosion-proofed for Zone 1 (EEx-II 2G)
- Aluminium extrusion frame with fluid collection troughs and lower area completely clad with stainless steel plate or sound insulation
- Fuel conditioning integrated into the lower frame
- Test room protected with transparent panels in upper frame
- Positive pressure encapsulated operating cabinet with computer, various measuring instruments and controls
- Control cabinet, which is not explosion-proof and therefore must be set up outside the explosion-proof area
- Number and kind of measuring system (continuous or shot-to-shot) on request
- Software:
Prisma NT – test bench control software
- Setup of the complete injection system including ECU, piping and original engine cables is possible
- Various engine control devices can be incorporated
- Optional medium conditioning
The temperature of the medium can be set within a wide range of temperatures (–20 °C to +80 °C) using an additional temperature control unit installed outside the explosion-proof area

Technical Data

Testing medium	n-heptane, gasoline
Supply pressure	system dependent (up to 300 bar)
Tank temperature	20 °C
Low pressure supply	0.5 – 10 bar, max. 25 l/min
Test medium temperature at the system inlet	– 20 °C to +80 °C (via additional temperature control unit and heat exchanger)
Limiting operating speed	up to 6000 injections/min other speeds on request

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