Electromechanical Pressure Generator

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Description

High precision and low noise operation – these are without doubt the outstanding characteristics of this electromechanical pressure generator.

All necessary components for accurate and secure pressurisation for both short and long term tests are integrated in a compact unit.

An incremental encoder with a very high digital resolution provides the position of the spindle.

This offers not only the opportunity for an exact volume control, but is also a pre-condition for a precise pressure control.

For laboratory operation, the low level of noise is another valuable advantage.

Features

- Ergonomic working height - all valves can be operated at the desk.
- User interface easy and intuitively to handle.
- Simple and quick filling of a connected pressure vessel with an integrated pre-filling pump.
- Controlled venting of the high pressure circuit through visual control via sight glass.
- Easy filling of the reservoir through freely accessible tank inlet on the control panel.
- Port for emptying the connected pressure vessel by compressed air.
- Safe operation through volume control (if a suitable controller is used)

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Technical data

- Operating pressure up to 400 MPa
- Stroke up to 1000 ccm³
- High precision digital output of the spindle position (25 Bit SSI)
- Additional visual control of the actual spindle position with a mechanical measuring stick
- Standard reservoir 30l

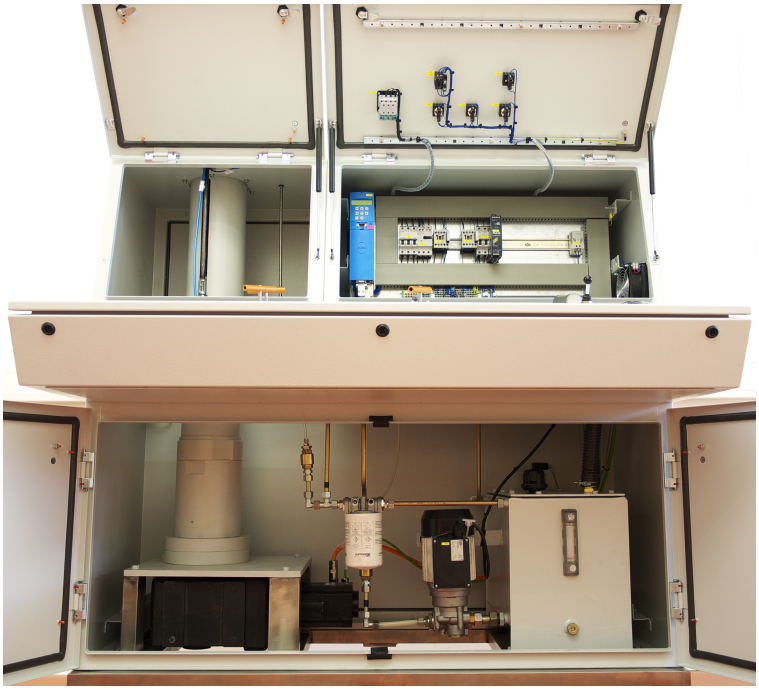
Options

- Bleed oil pump for excess oil of a connected pressure cell
- Integrated control system for carrying out simple cyclic tests.
- Spindle position via analogue output (16Bit)

Available configurations

(others on request):

Type	Pmax (MPa)	Vmax (ccm³)
EMD-030-1000	30	1000
EMD-060-1000	60	1000
EMD-080-0500	80	500
EMD-080-1000	80	1000
EMD-200-1000	200	1000
EMD-400-0250	400	250



The pressure generator is easy to maintain through the excellent accessibility of all its components.

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