

DESIGN AND MANUFACTURE OF TEST BENCHES



Examples of
Completed Projects



MOTORIMPEX



TEST BENCH VS-2061-2 FOR HYDRAULIC CYLINDERS

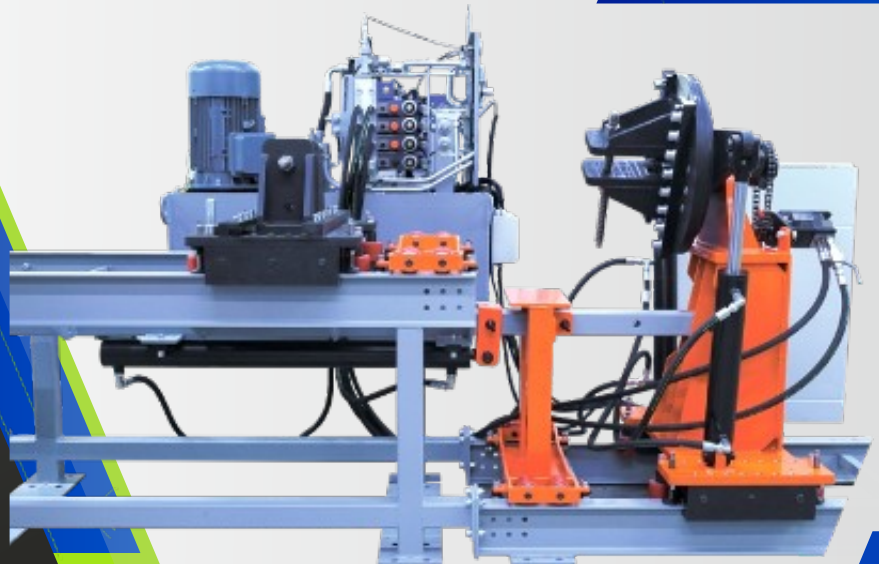
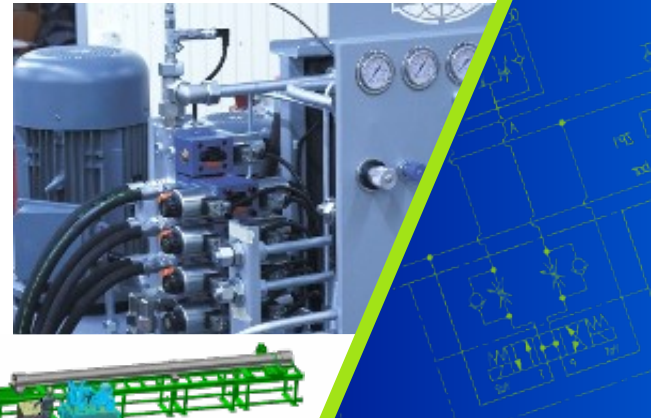
- ▶ Automatic test bench for industrial hydraulic cylinders. Designed for testing cylinders under customer-defined parameters, including non-standard test modes.



YouTube

TEST BENCH BC-2061 FOR HYDRAULIC CYLINDERS

- ▶ Automatic test bench for hydraulic cylinders weighing up to 3 tonnes and up to 18 m long with the piston rod fully extended.
- ▶ The bench checks start-up pressure and idle speed and also supports cylinder assembly and disassembly during repair.
- ▶ The hydraulic power unit operates at up to 500 bar.



CASE STUDY

TEST BENCH VS-1750 FOR HYDRAULIC MOTORS

YouTube



- ▶ Automated test bench for hydraulic motors with computer control and efficiency calculation. Rotational speed is adjustable up to 12,000 rpm.



TEST BENCH VS-2236 FOR FLUSHING

- ▶ Used for flushing and adjustment of hydraulic components. The bench measures current consumption and allows testing at different supply voltages.



TEST BENCH VS-1786 FOR HIGH-PRESSURE HOSES

- Built-in test chamber for high-pressure hoses. The hydraulic system operates at pressures up to 630 bar and includes a pressure intensifier for reaching the required test pressure.

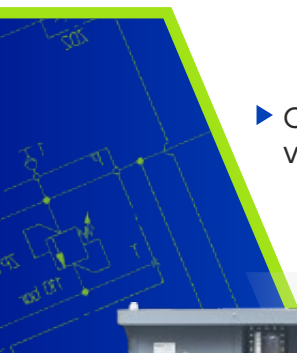


Integrated hydraulic power unit: CE-certified, valid to 2029



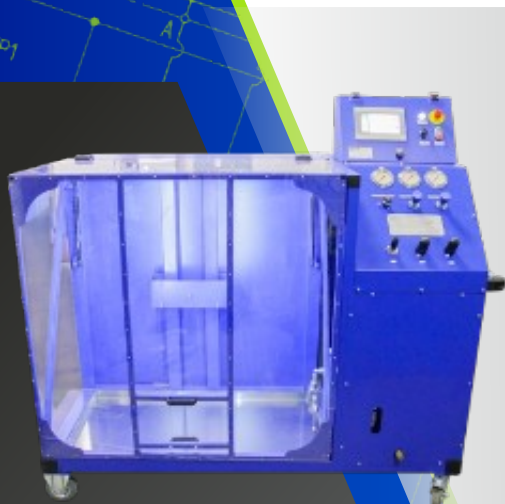
TEST BENCH VS-2360 FOR ELECTRO-HYDRAULIC DIRECTIONAL CONTROL VALVES

- Custom test bench for electro-hydraulic directional control valves used in aviation applications.



UNIVERSAL TEST BENCH VS-728

- ▶ Pressure test bench for hydraulic units, high-pressure hoses and hydraulic cylinders.
- ▶ Test pressure is adjusted from the control panel and displayed numerically and graphically in real time. Test data can be exported via USB for reporting.
- ▶ Supports external leakage inspection, internal leakage testing, minimum-pressure testing and burst pressure testing up to 650 bar.



TEST BENCH VS-813 FOR THERMAL HYDRAULIC ACCUMULATORS

- ▶ The VS-813 bench is used for testing thermal hydraulic accumulators.



TEST BENCH VS-2460 FOR FLUSHING

- Used for flushing and adjustment of hydraulic components. The bench measures current consumption and allows testing at different supply voltages.



TEST BENCH VS-490 FOR HYDRAULIC PUMPS AND MOTORS

- Designed for running-in, acceptance and endurance testing of fixed- and variable-displacement hydraulic pumps and motors.
- The automated measurement system records flow, pressure and rotational speed. A thermoregulation system automatically maintains the required hydraulic oil temperature during testing.



TEST BENCH BC-1894 FOR SERVO-PROPORTIONAL HYDRAULICS

- ▶ Designed for testing servo-proportional hydraulic components under controlled temperature, pressure and flow conditions.
- ▶ The system generates test graphs for reports and archives test data.



TEST BENCH BC-2275 FOR HIGH-PRESSURE HOSES AND HYDRAULIC CYLINDERS

- ▶ Equipped with a separate test chamber for pressure testing high-pressure hoses and hydraulic cylinders.



 YouTube



TEST BENCH BC-1626 FOR GRABS

- ▶ Built with two independent hydraulic circuits for hydraulic motors and cylinders, plus a separate circuit for oil filtration and cooling.
- ▶ Pressure and flow are adjusted from the electronic control panel. A built-in USB port allows test data to be recorded for the test report.



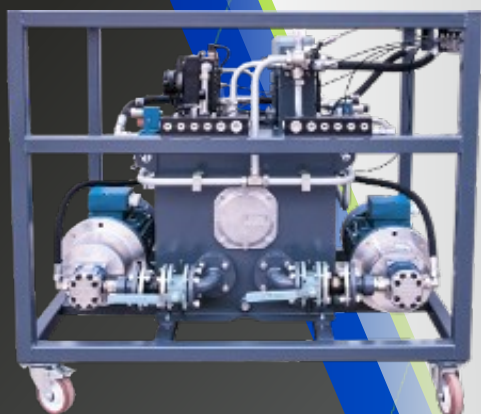
TEST BENCH BC-2494 FOR HIGH-PRESSURE HOSES

- ▶ Designed for strength testing of high-pressure hoses. A large built-in chamber provides space for positioning hoses during testing.



UNIVERSAL MOBILE TEST BENCH BC-2698

- Mobile test bench for different types of hydraulically operated equipment.



TEST BENCH BC-2896 FOR STEERING UNITS

- Designed specifically for testing hydraulic steering units.



YouTube



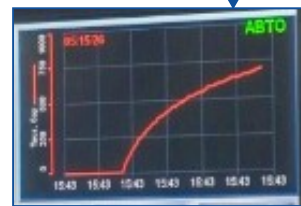
TEST BENCH BC-2222 FOR HYDRAULIC COMPONENT ADJUSTMENT

- Used for flushing and adjustment of hydraulic components, with hydraulic flow measurement during testing.



TEST BENCH BC-3175

- Designed for strength testing of components at pressures up to 800 bar.





MOTORIMPEX



Integrated hydraulic
power unit: CE-certified,
valid to 2029

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