

MAXIMATOR[®]

Maximum Pressure.



High Pressure Technology • Testing Equipment
Hydraulics • Pneumatics



» **MAXIMATOR Universal Test Bench**
58.000 psi / 4.000 bar

for pressure-, leakage- and functional tests of pressure-loaded parts and products with oil, water or emulsion

MX-Universal Test Bench & MX Controller

MX-Universal Test Bench

The safest way to assess the quality of pressurized components, assemblies or products is the practical test. The products are subjected to various pressure, leakage or functional tests.

Because only practical evidence provides reliable information about the desired product and material properties. Depending on the application, different test procedures have to be carried out. On the one hand, the spectrum includes the simple approach to a pressure level.

On the other hand, there are even more complex requirements for pressure tests, such as the time-controlled approach to different

pressure levels with defined pressure build-up and pressure holding times.

Thanks to its modular and flexible structure, the MX Universal Test Bench offers the optimal solution for all requirements in the area of manual pressure testing with oil, water or emulsion.

Configured to the respective test requirements and optionally equipped with the MX controller, the MX Universal Test Benches offer the highest cost efficiency with optimal test results.



Smart control

Equipped with the Maximator pneumatic controller (MX controller), the control of the Universal Test Benches becomes a real leap in quality: Test profiles can be flexibly defined, saved and, if necessary, repeated or adapted. The logging of the test results can also be designed individually - this makes component testing as flexible and uncomplicated as it should be.

The MX controller consists of a pneumatic control unit for controlling the drive pressure of an air-operated pump or a pump system. It is controlled by a microcontroller specially developed for compressed air-driven Maximator high-pressure pumps.

The embedded PC enables the operator to manage recipes and log test results with a user-friendly and intuitive user interface.

The visualization takes place via a web interface and can be accessed via LAN or WLAN with a PC, tablet or smartphone.

The MX controller offers a very precise automatic control of the high pressure pumps based on predefined multi-stage and / or linear pressure curves.

Product key

MX-Universal Test Bench in modular design (options not selected must be left blank):

| | |
|-------------------------------|--|
| 1 MX | Basic version of the MX universal test bench with manual controls (manual valves and pressure gauges - without MX controller) consisting of cabinet (Test chamber size S), safety valve, manual valve and pressure gauge, Emergency shut down, air control unit, safety devices ($p_L = 2-10$ bar) |
| 2 MX-Controller | Configuration with MX controller and the associated components instead of manual control (pL max. 6 bar) C MX Controller with proportional valve and pressure transmitter, operation via external device CD MX Controller with proportional valve and pressure transmitter, operation via integrated 10" display CT MX Controller with proportional valve and pressure transmitter, operation via industrial 10.1" tablet |
| 3 Pressure range | Selection of testing pressure range 10 up to 10.000 psi (690 bar) 21 up to 22.500 psi (1.550 bar) 43 up to 43.000 psi (2.965 bar) 58 up to 58.000 psi (4.000 bar) |
| 4 Test chamber | Selection of length of the test chamber (630 mm width, 400 mm height) ¹ S 500 mm long M 1.500 mm long L 3.000 mm long |
| 5 Prefill pump | Option prefill pump consisting of M4-LVE and required valve technology PF with prefilling pump |
| 6 Tank size | TS NG 20 l (usable volume approx. 13 l) TM NG 30 l (usable volume approx. 23 l) |
| 7 Return circuit | Option return line to tank (avoidance of air pockets in the device under test) RC Return Circuit |
| 8 Measuring Connection | Option external measuring connection for pressure gauge or pressure transducer ² MC Measuring Connection |
| 9 Further Options | L Lighting in the test room W Wheels (only for test chamber length M) DD Drip Drain stainless steel perforated plate (for test item support) ³ QC Steck-O-System for the connection of hoses GSM Guiding system with manual pressure relief (incl. Option DD) ⁴ GSA Guiding system with automated pressure relief (incl. Option DD) ⁴ |
| 10 Special | on demand |

¹ Dimensions MX-Universal Test Bench: height = 1100 mm; width = 630 mm; overall length = length test chamber + 500 mm

² Connection depends on pressure range: 5 = 1/4" BSP; 15 = 4M; 30 and 40 = 4H

³ usable height of test chamber reduced to approx. 370 mm.

⁴ System for measuring of elongation (expansion) available as option.

Ordering example: MXCD-43-M-PF-TS-RC-MC-L-W-DD:

MXCD = MX Universal test bench with MX Controller and integrated 10" Display
43 = pressure range 43.000 psi,
M = test chamber length 1.500 mm

PF = prefill pump
TS = Tank size NG20
MC = Measuring connection 4H

L = Lighting in the test room
W = Wheels
DD = Drip Drain

On your side everywhere

As the technology leader in the area of high-pressure and testing technology, hydraulics and pneumatics up to 25,000 bar, Maximator GmbH, with its company headquarter in Nordhausen, has been extremely successful worldwide for more than five decades.

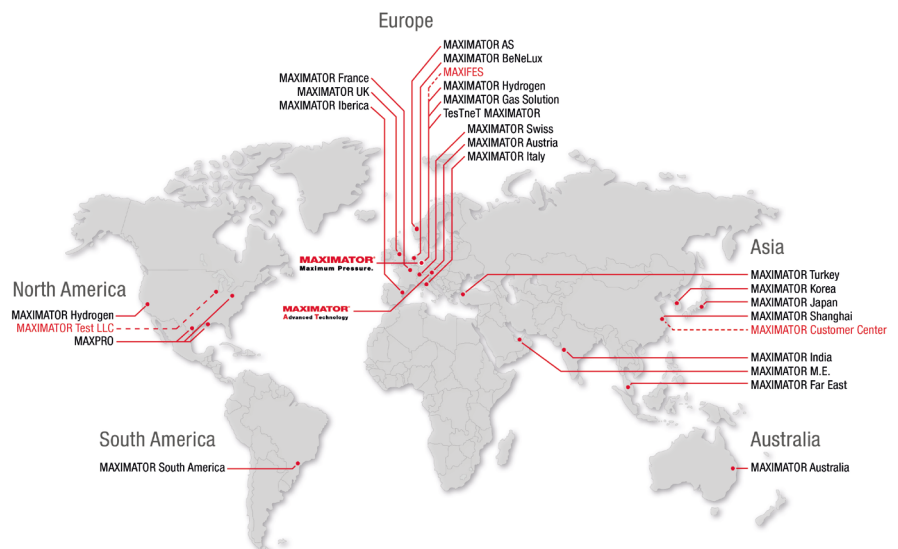
With our products and innovative system solutions, we are the long-standing partner of companies of repute in the automotive and supplier industry, as well as the chemical and mechanical engineering, energy, oil and gas industry sectors.

With our international partner companies, experienced experts in high-pressure technology are always ready to assist you. We have compiled detailed contact information for our international partners which you can find on our website at:

www.maximator.de/worldwide+distribution

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