EFFICIENT QUALITY ASSURANCE

THE TEST-RIG





Irreplaceable for efficient quality assurance



Get complete traceability and documentation



Simulate production setup and test your mould before use



Measure and optimise your energy efficiency



Ensure efficient troubleshooting and minimal downtime



Document and benchmark new moulds



Inspect and maintain older moulds



Easy wireless or wired connection to office network





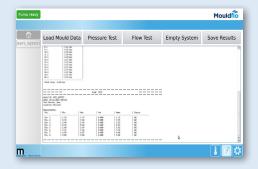
Simulate a production setup for testing

The Test-rig offers you a unique way to simulate a production setup and ensure the quality of your moulds.

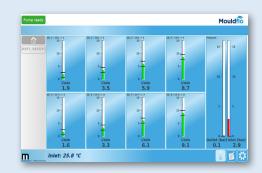
Equipped with its own water tank, pump, manifold and a full software setup, it allows you to document, validate and maintain your moulds by testing them in a practical all-in-one tool.



Features







Flow, temperature and pressure test

With the Test-rig, the cooling channels can be analysed and tested.

The flow and pressure can be controlled exactly to simulate the production setup.

All details displayed on the screen:

- Flow
- Pressure inlet
- Pressure outlet



Advanced Pump Technology

The Test-rig is equipped with a high-tech pump, which allows you to control flow volume and inlet pressure and to mimic the production environment. Everything is controlled on the touch panel. The integrated water tank will provide water for flow and pressure tests.

After testing and analysing the mould, a convenient feature allows you to air purge water out of the system, simply by using the "empty" function.

Test Reports

The software is designed to give a simple and quick overview. From the monitor all functions can be controlled and reports can be saved and exported as validation for a maintenance or as documentation for a newly developed mould.

Following data can be logged and saved as reports:

- Flow volume/capacity
- Pressure loss through the mould
- Optimisation analysis



Why mould makers (also) benefit from the Test-rig

The Test-rig is an innovative solution that is both convenient, time-saving and precise. It enables mould makers to ensure that their customers' moulds are always running in top condition with optimal cycle times. It ensures efficient work processes as well as flawless injection moulded parts.

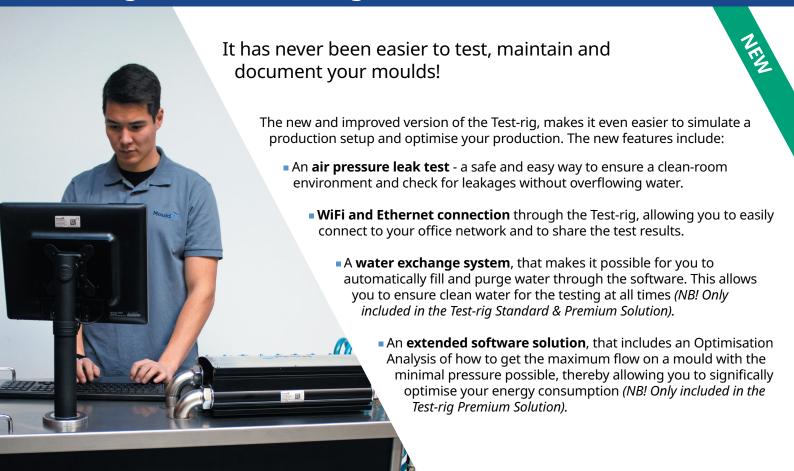
By implementing the test-rig in your work process, your team will be using the newest technology, that makes it possible for your customers to get shorter cycle times, high quality parts and complete documentation.

The Test-rig enables mould makers to:

- Test, analyse and certify a newly build mould to make sure that it is in optimal condition with documented results.
- Generate crucial data to share with their customers
- Store the data in case any issues arises later in the life of the tool. This provides a time-saving process to identify, where a problem is lurking and it minimizes the downtime for customers.



The new generation - Test-rig 2.0



An optimisation of any injection moulding production

The Test-rig allows the user to get vital information, that they will benefit from, all through the life cycle of a mould. By validating a new mould before it is put into production, the factory gets benchmarking measurements, that they will need for all future performance analyses – replacing an unreliable estimate with exact data.

Through the years we have learned that the Test-rig data can improve practically all work processes related to a mould - saving man hours, shortening downtime and optimising troubleshooting and maintenance.



Murali Rajendran Software Architect, Mouldflo





The Test-rig gives us the reports and technical data required to optimise a tool's cooling efficiency.

Aalbers Tool and Mould Inc.

Specifications

| Test-rig Solutions | Included Features NEW and Descript Dat. Air Processes Look Test. Wife and Ethernet Connection | | |
|-----------------------------|---|---------------|---|
| Basic Solution | Flow and Pressure Test, Air Pressure Leak Test, WiFi and Ethernet Connection | | |
| Standard Solution | Flow and Pressure Test, Air Pressure Leak Test, WiFi and Ethernet Connection, Water Exchange System | | |
| Premium Solution | Flow and Pressure Test, Air Pressure Leak Test, WiFi and Ethernet Connection, Water Exchange System, Extended Software Solution | | |
| Control | | | |
| Manifold type | Aluminium | | |
| Display | 15" touch screen | | |
| Control | Microprocessor based / computer based | | |
| Comunication ports | Ethernet / USB | | |
| Storage (log and settings) | Internal / USB (optional) | | |
| Number of zones | 8 Standard | | |
| Display units (flow) | Litres / gallons switchable | | |
| Display units (temperature) | °C / °F switchable | | |
| Warning limits | Customisable | | |
| Flow sensor | | Pump and Tank | |
| Sensor type | Vortex Flowsensor (VFS) | Pump Capacity | Up to 160 litres/min |
| Range (Flow) | 1-15 litres/min or 2-40 litres/min | Pump Pressure | 0-4 Bar |
| Accuracy (Temperature) | 15 - 90°C: +/- 0,5 °C 0 - 120°C: +/- 1 °C | Power Supply | EU: 3-Phase (3L+N+PE), 230V/400V, 50Hz, 2.5 kW, 4.4 A US: 3-Phase (3L+PE), 3 x 480V, 60Hz, 2.5 kW, 4.4 A |
| Accuracy (Flow | 1% fs | Tank Capacity | 60 litres |
| Response time | <1s | | |
| Resolution (Temperature) | 0.5°C | | |



