



Anton Paar

::: Intelligence in Rheometry



High Throughput Rheometer HTR

The first fully automated, robotically operated High Throughput Rheometer based on MCR 30x or higher

Robotic Rheometry

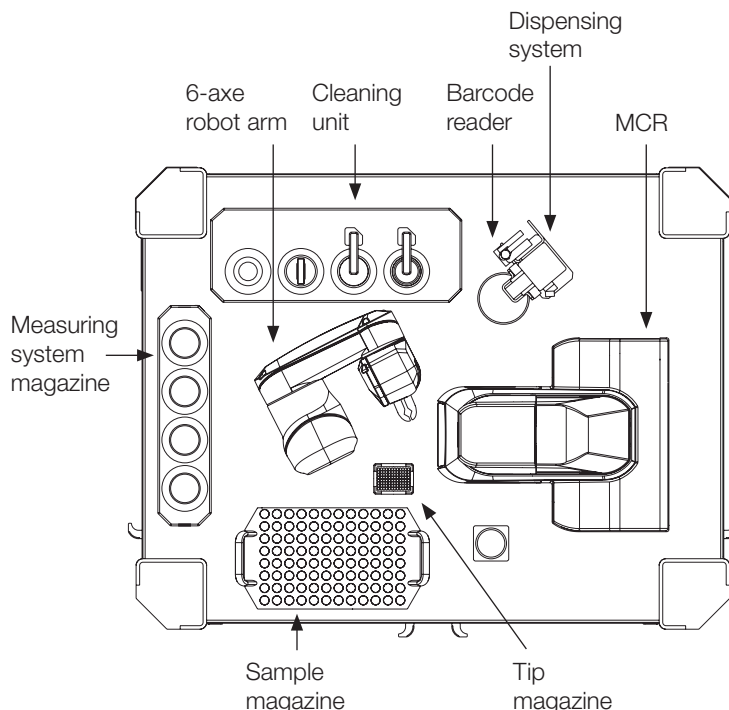
The High Throughput Rheometer HTR from Anton Paar is an innovation landmark: the modern principles of high-throughput screening brought to full function on the ever-efficient MCR rheometer package.

The basic MCR setup remains as modular and customizable as ever - with the difference that HTR now performs all measuring steps automatically, operated by a robot. In its standard setup, it processes 96 samples in a single run – working for up to 24 hours a day. Laboratory staff is virtually given back the entire working day.

Measurements are performed with concentric cylinder as well as with cone-and-plate and parallel-plate geometries – an absolute novelty in automated rheometry. In addition, a pH meter can be integrated for automatic measurements of pH values.

Anton Paar's High Throughput Rheometer sounds like the future – because it is. And it is here to stay: Designed to withstand the demands of continuous operation, it will still be in perfect condition long after your investment has paid off.

High Throughput Rheometer HTR



Specifications

Samples	up to 15.000 mPas (cleanable with water and detergent)
Throughput	Depending on the measurement parameters, the simultaneous use of 2 measuring systems allows to continue measuring with one system while the other is being cleaned.
Measuring instruments	MCR 30x or higher
Measuring systems	CP, PP (max. diameter 50 mm)
Temperature devices	Peltier controlled system (circulator for counter cooling included)
Temperature range	-30 °C to 200 °C
Test types	see MCR brochure
Cleaning unit	<ul style="list-style-type: none"> ▶ Cleaning of upper and lower measuring surfaces ▶ Pre-washing with pressurized hot or cold water ▶ Cleaning with water, detergent and brushes ▶ Rinsing with pressurized hot or cold water ▶ Drying with hot air ▶ Cleaning parameters can be adapted to the specific needs of the individual application.

Dispensing system	automated pipetting system with disposable tips Volume up to 1 mL
Sample magazine	96 samples max. 10 mL, all vials are covered
Barcode	2D Datamatrix on the bottom of the sample vials
Interface to database	ASCII files
Dimensions	1350 x 1050 x 1950 mm (w/d/h)
Weight	900 kg
Power	Connector: CEE 16 A 5 pole Voltage: 400 V/50 Hz Power: 7500 W
Air pressure	Connector: Inner hose diameter 8 mm Quality: DIN ISO 8571-1 Class 3 (oil content < 1 mg/m ³) Pressure: 5-10 bar Flow rate: max. 95 NL/min
Water line	Connector: Hot water, cold water: Inner hose diameter 8 mm Pressure: 3-8 bar Flow rate: max. 2 L/min
Sink drain line	Connector: Inner hose/tube diameter 28 mm
pH measurement	optional integration of a Metrohm 780 pH meter
Other setups (CC, high viscosity, high temperature, ...) on request.	

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Instruments for:		
Density and concentration measurement	Colloid science	Oxidation Stability
Rheometry	X-ray structure analysis	Cold Flow Properties
Viscometry	Refractometry	Consistency & Ductility
Sample preparation	Polarimetry	Various Petroleum Properties
Microwave synthesis	Volatility	High-precision temperature measurement

Specifications subject to change without notice.

Your distributor: