

Rheometers & viscometers

HAAKE viscometer and rheometer selection guide for paints, inks and coatings

Select the right viscometer or rheometer according to your rheological demand. Whether you are measuring the product quality, flowability or processability of paints, inks, or coatings, rely on our instruments to simplify your lab work and ensure accurate results.

- **Easily interpret data:** intuitive software helps provide fast answers
- **Quick accessory setup:** “Assist” functions help move from one sample to the next
- **Around-the-clock support:** unrivaled warranties and technical support worldwide



Thermo Scientific™ HAAKE™ Viscotester™ 3	Thermo Scientific™ HAAKE™ Viscotester™ iQ ^a / iQ Air	Thermo Scientific™ HAAKE™ MARS™ iQ ^a / iQ Air	Thermo Scientific™ HAAKE™ MARS™ 40 / 60
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Features				
Type of instrument	Handheld viscometer	Rotational rheometer	Rotational rheometer	Rotational rheometer
Portable	✓	✓		
Temperature control options		✓	✓	✓
Automatic lift functionality			✓	✓
Standalone operation	✓	✓		
Software controlled operation		✓	✓	✓
Tests in controlled stress (CS) mode		✓	✓	✓
Tests in oscillation mode (CD-controlled deformation & CS)		✓ Optional for iQ	✓	✓
Tests in controlled rate mode (CR)	✓	✓	✓	✓
Normal force capabilities			✓ Optional for iQ	✓
Minimum rotational speed (rpm)	62.5	0.01	0.001 ^b	10 ^{-8 c}
Maximum rotational speed (rpm)	62.5	1500	2000	4500 Optional for MARS 40
Dimensions (L x W x H)	180 x 90 x 175 mm	270 x 500 x 500 mm	480 x 390 x 670 mm	600 x 600 x 890 mm
Software		HAAKE RheoWin	HAAKE RheoWin	HAAKE RheoWin

^a With mechanical bearing • ^b HAAKE MARS iQ Air version • ^c In CR mode



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Available accessories				
Pressure cells		✓	✓	✓
Building material cell		✓	✓	✓
Tribo-Rheometry			✓	✓
UV curing			iQ Air only	✓
Rheo-DEA (Dielectrical analysis)				Rheo-DEA Setup
Rheo-Microscope				Rheoscope Module
Rheo-FTIR Spectroscopy				Rheonaut Module
Rheo-Raman Spectroscopy				RheoRaman Module
Quality Control	✓	✓	✓	✓
Research & Development		Limited	Limited	✓
Standardized measurements acc. to ISO; DIN, etc.		✓	✓	✓
Absolute viscosity data		✓	✓	✓
Flow/viscosity curve		✓	✓	✓
Viscoelastic behavior (tests in oscillation mode)		✓ Optional for iQ	✓	✓
Yield point determination (e.g., phase separation, sedimentation)		✓	✓	✓
Thixotropy		✓	✓	✓
High-Shear measurements (for fast coating processes > 10 000 s ⁻¹)			✓	✓
Open time determination				✓
Low viscous samples (water-based varnish)		iQ Air only	iQ Air only	✓
Sol / Gel transition & curing behavior (by temperature, time or others / UV)			iQ Air only	✓
Powder coatings			✓	✓
Immobilization test			✓	✓

 Learn more at thermofisher.com/rheometers

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