

Technical Data - SmartPave 92,102

Standard methods
AASHTO T315 "SHRP-Test", AASHTO T316, AASHTO T350 "MSCR-Test", ASTM D4402, ASTM D7175 "SHRP-Test", ASTM D7405 "MSCR-Test", DIN EN 13302, DIN EN 14770, DIN EN 16659 "MSCR-Test", DIN EN 103702, FGSV AL 720 BTSV, FGSV AL 721 Constant Shear Rate, FGSV AL 722 Temperature Sweep, FGSV AL 723 MSCR-Test

Technical Specifications		
	SmartPave 92	SmartPave 102
Bearing	Air	Air
EC motor	Yes	Yes
Maximum torque	125 mNm	200 mNm
Min. torque (rotation)	1 μ Nm	5 nNm
Min. torque (oscillation)	1 μ Nm	7.5 nNm
Torque resolution	100 nNm	0.5 nNm
Angular deflection(set value)	1 μ rad to ∞ μ rad	1 μ rad to ∞ μ rad
Angular resolution	614 nrad	10 nrad
Min. angular velocity	10-4 rad/s	10-8 rad/s
Max. angular velocity	157 rad/s	314 rad/s
Max. speed	1500 1/min	3000 1/min
Min. angular frequency	10^{-4} rad/s	10^{-7} rad/s
Max. angular frequency	628 rad/s	628 rad/s
Normal force range	–	0.01 N to 50 N
Normal force resolution	–	1 mN
Max. temperature range	-40 °C to +200 °C	-40 °C to +200 °C
Toolmaster™	Yes	Yes
QuickConnect	Yes	Yes
Automatic gap setting (AGC/AGS)	Yes	Yes
TruGap™ (innovative and patented system for measuring the gap)	No	Yes
T-Ready™(automatically detects and transmits the sample temperature)	No	Yes
Normal force and velocity profiles, tack, squeeze	No	Yes