Key Technical Data

NETZSCH

EPLEXOR® Series up to ± 6000 N	
Temperature range	-160°C to 500°C alternative: high-temperature versions up to 1000°C or 1500°C
Drives	Two, independent of each other: ▪ Servo motor for static force ▪ Electrodynamic shaker for dynamic force
Static force	▪ EPLEXOR® 2000N: up to ± 2000 N ▪ EPLEXOR® 4000N: up to ± 4000 N ▪ EPLEXOR® 6000N: up to ± 6000 N
Dynamic force	▪ EPLEXOR® 2000N: up to ± 2000 N ▪ EPLEXOR® 4000N: up to ± 4000 N ▪ EPLEXOR® 6000N: up to ± 6000 N
Force measurement	User-exchangeable force sensors (various load ranges up to ± 12000 N)
Static strain (static deformation)	Up to 60 mm
Dynamic strain (amplitude)	EPLEXOR® 2000N / 4000 N / 6000 N up to ± 10
Frequency range	0.01 Hz to 100 Hz (optional: 0.001 Hz ... 200 Hz)
Wave forms	Sine (standard); triangle, $\sin^2$, half-sine, double-sine, saw-tooth, user-defined wave forms, pulses (optional)
Main measurement types	▪ Time sweep ▪ Temperature sweep ▪ Frequency sweep ▪ Temperature/frequency sweep ▪ Static-dynamic sweep ▪ Creep, relaxation/retardation ▪ Humidity sweep ▪ Flexometer test ▪ Fatigue tests ▪ Heat built-up/blow-out tests ▪ Universal testing
Automatic sample length/ thickness determination	Yes, for tension, compression and bending geometry
Optional instrumentation	▪ Humidity generator (HYGROMATOR®) ▪ UV extension for furnace ▪ Automatic sample changer: type ASC or MPAS ▪ Combined DMTA-DEA sample holder plus impedance spectrometer (DiPLEXOR®)

The EPLEXOR® instrument series is in line with the following standards:

DIN 53513, ISO 6721-1, ISO 6721-4, ISO 6721-5, ISO 6721-6, ISO 4664,
ISO 4666-3, ISO 4666-4, ASTM D4065, ASTM D4473, ASTM D623