

EPLEXOR® Series up to ± 4000 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: <ul style="list-style-type: none"> ▪ Servo motor for static force ▪ Electrodynamic shaker for dynamic force
Static force	<ul style="list-style-type: none"> ▪ EPLEXOR® 2000N: up to ± 2000 N ▪ EPLEXOR® 4000N: up to ± 4000 N
Dynamic force	<ul style="list-style-type: none"> ▪ EPLEXOR® 2000N: up to ± 2000 N ▪ EPLEXOR® 4000N: up to ± 4000 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)	<ul style="list-style-type: none"> ▪ EPLEXOR® 2000N: up to ± 10 mm ▪ EPLEXOR® 4000N: up to ± 10 mm
Frequency range	<ul style="list-style-type: none"> ▪ 0.01 Hz to 100 Hz ▪ 0.01 Hz to 200 Hz (option 1) ▪ 0.0001Hz to 100 Hz (option 2)
Wave forms	Sine (standard); triangle, sin ² , half-sine, double-sine, saw-tooth, user-defined wave forms, pulses (optional)
Main measurement types	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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