

AREA 20 ASPHALT & BITUMEN

Performance testing

Test rack

Load cell



Test rack



Small hydraulics

Dynamic compact testing system 10 kN / 10 Hz

EN 12697-24..26 For carrying out fatigue and stiffness tests under alternating loading and unloading within a heating chamber.

Contains:

- ▶ Machine frame with integrated heating chamber
- ▶ High-performance hydraulic unit with servo valve integrated in the base of the machine frame
- ▶ Rigid load frame 10 kN with adapted hydraulic cylinder as well as force and deformation measuring device, installed in the climatic chamber
- ▶ Input and output unit with touch screen and keyboard
- ▶ Control software BASDA

The entire test procedure, including the control of the hydraulic system and the heating cabinet and the acquisition of the measurement data, is carried out via BASDA. The software with online graphics and test database enables the creation and storage of different sequential programs. These are included in the scope of delivery of the additionally required test plates or test frames or can also be adapted or created by the user himself. The test area of the load frame is prepared for the use of different test frames for dynamic tests, for split tensile and bending tests, etc. The test plates and test frames required for the various standards as well as sequence programs must be ordered separately.

Technical data of the dynamic thermal compact test system 10 kN/10 Hz

test force	10kN
Frequency	<= 10 Hz
Force measurement	DMS GKL 1
Displacement resolution	0.001 mm
Selectable upper load	0.2 to 10 kN
Selectable underload	0.1 to 9.99 kN
Curve Shapes	Haversine, trapezoid, sine
Dwell times over/under load	0.1 to 9.99 seconds
Test temperature	up to +60°C (from ambient T)
Dimension approx.	900x600x1850mm
Electrical data	3/N/PE, 400V, 50Hz, 4kW

20-60000

Technical data Dynamic cold compact testing system 10 kN/10 Hz -20 to +60° C

test force	10kN
Frequency	<= 10 Hz
Force measurement	DMS GKL 1
Displacement resolution	0.001mm
Selectable upper load	0.2 to 10 kN
Selectable underload	0.1.. 9.99 kN
Curve Shapes	Haversine, trapezoid, sine
Dwell times over/under load	0.1..9.99 sec.
Test temperature	-20 .. +60° C
Dimension approx.	1450x820x1940mm
Electrical data	3/N/PE, 400V, 50Hz, 8kW
Weight approx.	660.00 kg

20-60100



AREA 20 ASPHALT & BITUMEN

Performance testing



Item number	20-60000	20-60100
Test areas	Cyclic pressure test, dynamic indentation test, for mastic asphalt, for hot asphalt	Cyclic pressure test, dynamic indentation test, for mastic asphalt, for hot asphalt
Load/frequency	10kN/10Hz	10kN/10Hz
Test temperature	 Ambient temperature up to + 60°C	 -20°C to + 60°C
Application areas	Testing and quality assurance, mix design development	testing and quality assurance
Fields of application		



20-60550	20-60500	20-60300
<p>Cyclic Loading, Permanent Deformation, Young's Modulus, Indirect Tensile Test, Texas Overlay, Four Point Bending Test, Dynamic Modulus, Yield Index, Triaxial Compression</p>	<p>Cyclic Loading, Permanent Deformation, Young's Modulus, Indirect Tensile Test, Texas Overlay, Four Point Bending Test, Dynamic Modulus, Yield Index, Triaxial Compression</p>	<p>UTST, Direct Tensile Test, Cooling Test, TSRST, Tensile Creep Test, Relaxation Test</p>
<p>30kN/30Hz</p>	<p>50kN/60Hz</p>	<p>50kN/60Hz</p>
<div style="text-align: center;">  <p>-20°C to +80°C</p> </div>	<div style="text-align: center;">  <p>-20°C to +80°C</p> </div>	<div style="text-align: center;">  <p>-70°C to +60°C</p> </div>
<p>Research and development of new recipes</p>	<p>Research and development of new recipes</p>	<p>Research and development of new recipes</p>
<div style="text-align: center;"> <p>RESEARCH</p>  </div>	<div style="text-align: center;"> <p>RESEARCH</p>  </div>	<div style="text-align: center;"> <p>RESEARCH</p>  </div>