



## Compact Dynamic Testing Machine 50 kN / 60 Hz

EN 12697-25A - EN 12697-25B - EN 12697-24E - EN 12697-26C - EN 12697-26E - EN 13289 - AASHTO TP79 - AASHTO T342 - ASTM D6931

... more tests are available on request!

Dynamic compact system for the determination of stiffness and fatigue tests. The system consists of a four-column stiffness frame 50/63 kN with hydraulic actuator and load and displacement frames like indirect tensile, dynamic creep test.

- ▶ internal measurement of the displacement and high accuracy load cell for use in climatic chambers
- ▶ hydraulic system with a radial piston pump with variable oil delivery according to the different performance tests
- ▶ the load cell is assembled to a hydraulic piston including a positioning system
- ▶ Water-cooled hydraulic aggregate with high performance servo-hydraulic valve (on request optional available also air-cooled)

### Technical data

Dimensions with enviromental chamber	2500 x 1500 x 1200 mm
Weight	1400 kg
Electrical data	400 V, 50 Hz 3 P+N+PE 11 kW
Test load dynamic	50 kN
Frequency	60 Hz
Load cell range	up to 50 kN
Max. loading	0.2 ... 50 kN
Min. loading	0.1 ... 49.99 kN
Temperature	-20 ... +80°C
Accuracy	0,06% transducer 63 kN optional
Displacement resolution	0.001 mm
Volume climatic chamber	500 l
Volume test room	175 l
Dimensions specimen size	Width: 100/150/200 mm Heigh: up to 300 mm
Noise level:	68 dB

### Advantage:

- ▶ Automatic control of the climatic chamber and dynamic DYNASOFT
- ▶ Free programmable test procedures or standardized test procedures
- ▶ Real-time graphic
- ▶ Digital controller with 4 channels (standard configuration)
- ▶ Space-saving sliding door
- ▶ Large and easily accessible test room

20-60500



**Controller:**

- ▶ Integrated all-in-one PC
- ▶ Monitoring in real-time
- ▶ Digital closed loop
- ▶ Adjustable wave shape: Haversine, Sinus, Trapezoid
- ▶ Flexible data acquisition with dedicated customer software on demand



**Hydraulic Specifications:**

Dimensions without soundproofing enclosure	1613 x 800 x 1430 mm
Weight without oil	560 kg
Electrical data	3 F 400 V, 50 /60 Hz, 17 kW
Oil tank capacity	152 l
Flow rate	19 l/min
High pressure	280 bar
Low pressure	not provided
Remote starting	Available