



▶ 低温沥青混合料试验  
*LOW TEMPERATURE ASPHALT TESTING*





土壤  
SOILS

沥青混合料  
BITUMINOUS  
MATERIALS

混凝土  
CONCRETE

## TRAVIS 沥青混合料流变性能测试系统

按照欧盟标准 (EN 12697-46) 进行试验的测试系统

- ▶ 单轴抗拉强度试验 (UTST)
- ▶ 约束试件温度应力试验 (TSRST)
- ▶ 松弛试验 (RT)
- ▶ 拉伸蠕变试验 (TCT)

本测试系统包括一个紧凑的测试架，与低温箱的测试空间完全一体化。完全不必担心令人烦恼的馈线贯通。使用两条由温度不敏感特殊材料组成的金属条作为测试基座，这些条棒与试件靠近对齐。

试件易于嵌入，测试感应器可以被断开。坚固的测试架完全由不锈钢制成。试件的荷载通过重型螺旋千斤顶和步进马达施加。一个称重传感器安装于主轴上。来自称重传感器、4个移位感应器以及试件和测试空间的温度感应器的数据记录由一个高精度的数据采集系统进行监测。随机提供的电脑用于记录测试数据、控制测试过程以及低温箱的温度。

供货范围包括适合用户特殊需要的测试及评估软件。低温箱内层由不锈钢制作，前面箱门镶有检视玻璃窗。具有两种不同尺寸的低温箱供选择。

## TRAVIS Testing system for rheological behaviour of asphalt

Testing system for tests according to EN 12697-46

- ▶ uniaxial tension stress test (UTST)
- ▶ thermal stress restrained specimen test (TSRST)
- ▶ relaxation test (RT)
- ▶ tensile creep test (TCT)

This testing system includes a compact test frame completely integrated in the test space of the temperature chamber. Disturbing feedthroughs are not necessary. As measurement base two bars consisting of a special temperature indifferent material are used. These bars are aligned close to the sample.

The specimen can be user-friendly inserted, the measuring sensors are disconnectable. The rigid test frame is completely made of stainless steel. The specimen load is applied via heavy-duty screw jack and stepping motor. An electronic load cell is directly attached to the spindle. The data logging of the load cell, the four displacement transducers, the temperature sensors for the sample and the test space are monitored with a high-precision data acquisition system. The included PC is used for measurement data logging, control of the test procedure and the temperature test chamber.

The scope of delivery includes a test and evaluation software that can individually be adapted to the users requirements. The inside of the temperature chamber is made of stainless steel, the front door is equipped with an inspection window. Two sizes of test chambers are available.





混凝土  
CONCRETE

集料  
AGGREGATES

检测  
TESTING

筛分  
SIEVING

取芯  
DRILLING

实验室集装箱/设施  
LABORATORY CONTAINER/  
FACILITIES

**技术数据:**

试件规格	40 x 40 x 160 mm
温度范围	- 40° C 至 + 60° C
力度	最大 10 千牛顿
移位感测器	精度 0,1
分辨率	0,05 µm

**选项:**

试件规格	50 x 50 x 160 毫米 60 x 60 x 160 毫米
拉伸蠕变测定嵌入 双配置试验架	

**Technical data:**

Specimen dimensions	40 x 40 x 160 mm
Temperature range	- 40° C to + 60° C
Force	max. 10 kN
Displacement transducers	accuracy class 0,1
Resolution	0,05 µm

**Options:**

Specimen dimensions	50 x 50 x 160 mm 60 x 60 x 160 mm
Measuring insert for tensile creep test Test frame in twin configuration	



创新实验机概念，具有紧凑的测试架构而没有贯通低温试验箱的箱壁。试验空间具备2种宽度。进行拉伸蠕变试验 (TCT)，测试架可以水平地安装于测试空间。

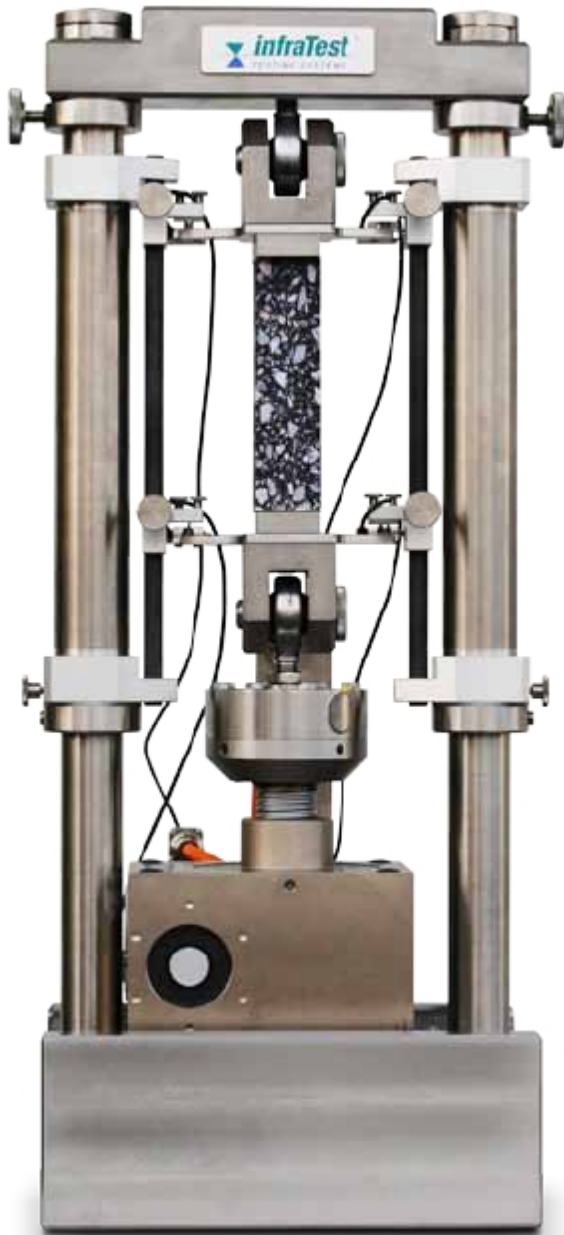
*Innovative testing machine concept with compact test frame without feedthroughs in the walls of the temperature test chamber. The test space is available in two widths. For the tensile creep test (TCT) the test frame can be installed horizontally in the test space.*



**移位感测器特写**

*Detailed view of one displacement transducer*





按照所选购项目，可以进行下列实验:

- ▶ 约束试件温度应力试验 (TSRST)
- ▶ 单轴抗拉强度试验 (UTST)
- ▶ 松弛试验 (RT)
- ▶ 拉伸蠕变试验 (TCT)

According to the selected options following tests can be carried out:

- ▶ thermal stress restrained specimen test (TSRST)
- ▶ uniaxial tensile test (UTST)
- ▶ relaxation test (RT)
- ▶ tensile creep test (TCT)



试件安装台  
Sample mounting bench

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