



▶ 汉堡车辙实验机
HAMBURG WHEEL TRACKER





土壤
SOILS

沥青混合料
BITUMINOUS
MATERIALS

混凝土
CONCRETE

在我们不断的产品更新更新过程中，针对新的TP沥青混合料为我们著名的EN12697-22小轮汉堡车辙实验机新研发出以下附加性能：

- 1.) 可以按要求将下述模具卡板组合成不同尺寸
▶ 模具垫板用于在使用或不使用石膏铺垫的情况下将混合料试件固定在模具内

或者

- ▶ 石膏模具用于按照TP沥青混合料22的要求将混合料试件固定于铺垫石膏的模具内，并可在不脱模具的情况下直接放入车辙实验机

- 2.) 自动上举荷重功能。为防止荷重预载对试件的影响或对滚轮造成损坏，滚轮装置在实验开始和结束时会自动下降或上升。

- 3.) 橡胶滚轮具有磨损标记，便于目测圆度

- 4.) 实验机和程序控制由一个一体化的触屏输入/输出装置控制执行。作为选购项目，输入也可以使用键盘。

20-4000

汉堡车辙实验机

欧盟标准(EN 12697-22)小轮兼备风热/水浸实验环境。本机由一个独立的钢制机壳组成，机壳上盖镶有可视玻璃窗。两处检测点置有低噪音滚轮装置，由连接曲轴的频率控制马达驱动。

机器内部可以使用PID控制器的热水或热吹风系统作为实验环境。

为方便将试件安放在检测位置，两个滚轮可以被上举，并悬挂在检测区域以外的地方。

两块基板的高度可通过螺丝杆调整。基板可容纳不同类型和规格的试件。可提供一体化控制和具有触屏的评测装置以及视窗软件，以进行实验控制、获取数据并在预设时间完成预热后，自动启动机器。

模板组20-4020...或石膏模具20-4015...需要另外订购。

In the course of our continuous product update and with regard to the new TP-Asphalt the following new developments are available for our well-known Hamburg Wheel Tracker EN 12697-22 small wheel:

- 1.) Possibility to place the following clamping moulds in various sizes

- ▶ Mould spanner sets used to fix the asphalt samples with or without gypsum bed

or

- ▶ Plaster moulds used to fix the asphalt samples in a gypsum bed as per TP-Asphalt 22 and to be placed into the Wheel Tracker without previous demoulding

- 2.) Automatic lifting function. The rolling wheel units are lowered or lifted automatically at beginning and ending of test to prevent any preloading influence on the sample or damage to the test wheels.

- 3.) Abrasion markers are applied on the rubber wheels for visual control of the circularity.

- 4.) The machine and process control is effected by an integrated input/output unit with touch screen. Optionally the input can also be effected using a keyboard.

20-4000

Hamburg Wheel Tracking Test Machine

EN 12697-22 small wheel air/water heating. The apparatus consists of an isolated steel plate casing with hinged cover with viewing glasses. Two measuring places with low-noise rolling wheel units driven by a frequency controlled motor with crankshaft are installed.

The inside can be heated either with water using PID controller or with a hot-air blowing system.

To enable the installation of samples into the testing place, both rolling wheel units can be stopped in a parking position outside the testing area.

The two base plates are adjustable in height using screw spindles. The base plates accept different types and dimensions of sample fixing moulds. Supplied with integrated control and evaluation unit with touch screen and Windows based software for test control and data acquisition, enabling also an automatic start after preheating at a preset time.

Mould spanner sets 20-4020... or plaster moulds 20-4015... have to be ordered in addition.



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



技术参数:

试件最大规格	430 x 280 毫米
试件高度	40..120 毫米
滚轮直径	Ø 203 毫米, 宽度 50 毫米
碾压长度	230 毫米
检测区域	65..165 毫米
荷重	710 牛顿
风热或水热温度范围	加热 30 .. 70° C
车辙深度	0..20 毫米, 分辨率 0.01 毫米
体积大约	2500 x 700 x 1500 毫米
400 伏特, 50 赫兹, 4 千瓦	

下列选购项目可根据需要提供:

- ▶ 使用增加砝码办法将荷重在 710 ... 1420 牛顿之间调整。预设的荷重会在实验开始时自动进入并储存在计算机里
- ▶ 滚轮宽度为 30 毫米钢轮和 40 毫米胶轮两个版本, 以此改变表面压力
- ▶ 可变速度范围由频率控制马达控制
- ▶ 高精测试装置控制滚轮
- ▶ 固定带确保模具内的试件在石膏垫上的平行和平衡
- ▶ 直径为Ø 200 至300毫米的岩芯试件放入石膏固定装置

Specification:

Sample dimensions max.	430 x 280 mm
Sample height	40..120 mm
Rolling wheel dia.	Ø 203 mm, width 50 mm
Rolling length	230 mm
Measuring section	65..165 mm
Applied load	710 N
Temp. range for both air or water	heating 30 .. 70° C
Track groove depth	0..20 mm, resolution 0.01 mm
Dim. appr.	2500 x 700 x 1500 mm
400 V, 50 Hz, 4 kW	

Following options are available now on request:

- ▶ Variable load 710 ... 1420 N using additional weights. The presetted load is automatically entered and saved at the beginning of the test
- ▶ Rolling wheels, width 30 and 40 mm, in steel and rubber version to modify the surface pressure
- ▶ Variable speed range by the frequency controlled motor
- ▶ High-precision test gauge device to control the rolling wheels circularity
- ▶ Fixing jig to ensure the parallel alignment of the samples inside the plaster mould
- ▶ Put-in plaster-device for drilling cores Ø 200 to 300 mm available

可提供模具垫板或石膏模具：

模板组

随机使用，固定高达120毫米的沥青混合料试件。不锈钢制，具有两侧固定和两侧可活动的组件，可用快速拆卸螺栓固定在一起。底板可调整高度，以20毫米为单位。还包括介于这个高度之间的2、5和10毫米垫板。

20-4020	260 x 320 毫米
20-4021	280 x 340 毫米
20-4022	260 x 410 毫米
20-4023	300 x 300 毫米

石膏模具

不锈钢制作，按照TP沥青混合料 22要求，用于把沥青混合料试件固定在石膏铺垫上面。这个模具也是预备同下面铺有石膏的沥青混合料试件一起放入实验机进行实验。石膏模具包括两个搬运手柄以及由三个铰链和一个中心固定螺栓固定在一起的侧面元件。底板可调整为40 - 60 - 80 - 100 - 120毫米。适用于规格为240 x 300毫米试件 (20-4015 - 尺寸包括石膏镶边 260 x 320 毫米)以及规格为 260 x 320 毫米试件(20-4016 - 尺寸包括石膏镶边280 x 340 毫米)。

20-4015	260 x 320 毫米
20-4016	280 x 340 毫米

石膏固定夹具

用于确保沥青混合料试件在石膏模具里保持平行和平衡。试件使用固定带(20-4012)固定。

20-4010	260 毫米 用于 20-4015
20-4011	280 毫米 用于 20-4016

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Available Mould Spanner Sets or Plaster Moulds:

Mould Spanner Set

used with the Wheel Tracker for asphalt samples up to 120 mm height. Stainless steel with two fix and 2 removable side elements fixed together with quick release clamps. Bottom plate adjustable in 20 mm height steps. Including intermediate plates 2, 5 and 10 mm.

20-4020	260 x 320 mm
20-4021	280 x 340 mm
20-4022	260 x 410 mm
20-4023	300 x 300 mm

Plaster Mould

made of stainless steel to be used to fix the asphalt sample in a gypsum bed as per TP-Asphalt 22. The mould is also prepared to be placed into the Wheel Tracker together with the gypsum bedded asphalt sample. Including two carrying handles and side elements fixed together with 3 hinges and 1 central fixing screw. The bottom plate is adjustable for sample heights 40 - 60 - 80 - 100 - 120 mm. Suitable for sample dimensions up to approx. 240 x 300 mm (20-4015 - dimensions including plaster rim 260 x 320 mm) and sample dimensions up to approx. 260 x 320 mm (20-4016 - dimensions including plaster rim 280 x 340 mm).

20-4015	260 x 320 mm
20-4016	280 x 340 mm

Plaster fixing jig

Used to ensure a parallel alignment of the asphalt sample within the plaster mould. The sample is secured using fixing bands 20-4012.

20-4010	260 mm for 20-4015
20-4011	280 mm for 20-4016

