



轮胎五刚性综合试验机



汕头市浩大轮胎测试装备有限公司

SHANTOU HAODA TYRE TEST EQUIPMENT CO., LTD.

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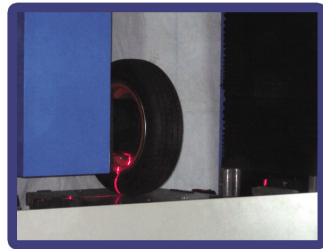
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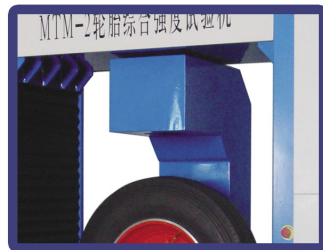
轮胎五刚性综合试验机

该机器是按SAE、GB标准，为实现轮胎多种测试功能而设计、制造的综合平台，这些测试功能包括轮胎径向刚性测试、轮胎纵向刚性测试、轮胎横向刚性测试、轮胎扭转刚性测试、轮胎包络刚性测试、轮胎电阻测试。

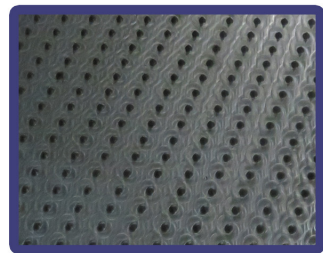
该机器可以支持中心断面胎侧轮廓扫描，配备轮胎绝缘电阻专用测试仪。
该机器可以支持姿态角工况下轮胎印痕测试，可用轮胎压力分布加载平台。



轮胎胎侧轮廓扫描



扭矩从车轮输入



车轮滑移（钉板）测试



支持外倾角/侧偏角测试

技术特点

- ☆ 高刚性，低摩擦力
- ☆ 刚性试验径向载荷采用SAE标准
- ☆ 好的刚性和对称受力机构保证轮胎姿态
- ☆ 任意侧偏角/侧倾角（外倾角）组合
- ☆ 扭转刚性测试扭矩从车轮输入
- ☆ 作用力和角度伺服控制
- ☆ 二维激光扫描技术
- ☆ 支持多种模拟路面
- ☆ 支持气压在线测量

试验功能

- ☆ 轮胎径向刚性测试
- ☆ 轮胎纵向刚性测试
- ☆ 轮胎横向刚性测试
- ☆ 轮胎扭转刚性测试
- ☆ 轮胎包络刚性测试
- ☆ 轮胎接地轮廓扫描
- ☆ 轮胎绝缘电阻测试
- ☆ Pinch-cut Wedge 测试

技术参数

- ☆ 最大轮胎垂直力：PCR 50kN/TBR 100kN
- ☆ 最大轮胎横向力：PCR 50kN/TBR 100kN
- ☆ 最大轮胎纵向力：PCR 50kN/TBR 100kN
- ☆ 最大凸起力：PCR 50kN/TBR 100kN
- ☆ 最大扭矩：PCR 1kN.m/TBR 10kN.m
- ☆ 扭转角/侧偏角：0~90°，无级调整
- ☆ 侧倾角：±5°
- ☆ 径向负荷加载精度：示值的±1%或10N之大者
- ☆ 径向加载垂直精度：±0.05°
- ☆ 位移测量精度：±0.05mm（可升级到±0.01mm）
- ☆ 扭转角/侧倾角控制精度：±0.05°
- ☆ 绝缘电阻最大量程：1T欧姆
- ☆ 最大气压测量量程：PCR 1000kPa/TBR 1600kPa
- ☆ 气压测量精度：±5kPa（可升级）



汕头市浩大轮胎测试装备有限公司

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Tire Multifunction Testing Machine



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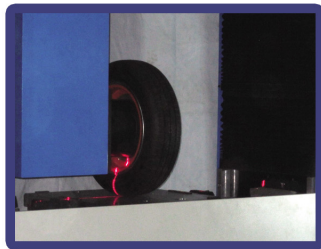
Tire Multifunction Testing Machine

This machine is designed specially for tire multifunction tests, such as tire quasi-static radial stiffness test, tire quasi-static longitudinal stiffness, tire quasi-static longitudinal stiffness test, tire quasi-static torsion stiffness test, tire envelop test, etc in compliance with SAE, GB and other international standards.

Supports CCD laser scanning of tire sidewall profile.

Supports slip & camber angle function.

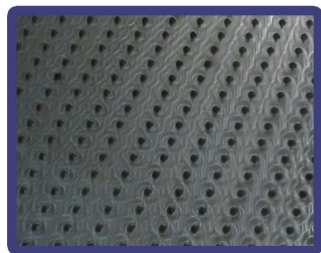
Supports measuring electrical resistance of tires.



CCD Laser Scanning of Tire Sidewall Profile



Torque Input from Wheel to Tire



Lab rim slip testing (spiked plate)



Slip & Camber Angle Function

Technical Features:

- ☆ High rigidity and low friction.
- ☆ Correct sensor using method.
- ☆ Linear guiding systems, ensuring high precision and low friction testing.
- ☆ Any side slip / side angle (angle) combination
- ☆ Torque input from wheel to tire
- ☆ Mechanic servo-system or hydraulic servo.
- ☆ Supports multifarious simulated roads.
- ☆ Supports inflation pressure measuring online.
- ☆ Two dimensional laser scanning

Options:

- ☆ CCD Laser Scanning of Tire Sidewall Profile
- ☆ Tire electrical resistance special tester which is developed independently by STHD.
- ☆ Pinch-cut Wedge testing

Technical Parameters:

- ☆ Max vertical force of tire: PCR 50kN/TBR 100kN
- ☆ Max lateral force of tire: PCR 50kN/TBR 100kN
- ☆ Max longitudinal force of tire: PCR 50kN/TBR 100kN
- ☆ Max force on protrusion: PCR 50kN/TBR 100kN
- ☆ Max torque of wheel: PCR 1kN.m/TBR 10kN.m
- ☆ Steering angle or slip angle: 0 ~ 90°
- ☆ Inclination or camber angle: ±5°
- ☆ Force accuracy: the bigger of ±0.5% or 10N
- ☆ Stroke accuracy: within ±0.05mm (up to ±0.01mm)
- ☆ Static load verticality: within ±0.05°
- ☆ Angle accuracy: ±0.05°
- ☆ Range of tire electrical resistance: 1~1TΩ
- ☆ Rang of inflation pressure: PCR 1000kPa/TBR 1600kPa
- ☆ Measuring accuracy of inflation pressure:
within ±5kPa (up to ±2kPa)

