

# 紧凑型车辆检测线 Vehicle Inspection System



## Model:Q-Lane

型号: Q-Lane

Q-Lane is an integrated and compacted testing line for cars and transporters up to axle weight 3,000 kg. It is integrated by sides slip tester, suspension tester, roller brake tester, speedometer tester, and all of them are controlled by one console, model U3. The configuration can be changed by different combination of equipments thanks to the system flexibility.

该系统用于检测最大单轴质量3.000kg以下的车辆，紧凑而高效。系统中整合了侧滑测试台、悬架测试台、滚筒式制动试验台、车速台，由U3型控制柜进行控制与管理。系统的柔性良好，可以按照需要对单机设备进行任意组合。

Thanks to the flexible hardware and software, it is very easy for end user to configure its own tester. Q-Lane system accepts different configurations of inspection items, it means that each equipment could be optional, just according to customer requirement.

灵活的结构与柔性软件，使得用户能够按需组合一个满足自己需要的Q-Lane系统，系统可以有不同的结构或检测项目，即每台单机设备都可以当做选件对待。

There is a control console that is suitable to any kind of configuration only after prompt setting of the software.

一旦决定了系统结构，只要在U3控制柜上做好相应设置，系统就能工作了。

There are extensive applications of Q-Lane in inspection station, garage, car maker and anywhere needs compacted vehicle testing facilities.

该系统广泛应用于检测站、修理厂、汽车制造厂或任何需要紧凑检测之处。

### Q-lane testing terms

Q-Lane 的检测项目

- |                            |       |
|----------------------------|-------|
| ■ Sides lip value          | 侧滑值   |
| ■ Suspension performance   | 悬架性能  |
| ■ Vehicle weight           | 车重    |
| ■ Brake performance        | 制动性能  |
| ■ Speedometer verification | 车速表校验 |

It is a modulated one that combines function of brake force, side slip, weighting and suspension. The equipments integrated can be any combination of followings.

模块化的结构综合了制动检测、侧滑检测、称重与悬架检测功能。以下各个单机设备都可以组合起来。

- |            |                     |
|------------|---------------------|
| ■ SSP-3/10 | Side slip tester    |
| ■ SUP-3    | Suspension tester   |
| ■ BKR-3/10 | Roller brake tester |
| ■ TSB-3/10 | Speedometer         |

## Function and Interface 性能简介

With Windows based software, all test procedures will be carried out automatically. There is a database to let customer easy to trace back and search test results.

视窗兼容软件，所有的检测过程都自动进行。操作人员能够利用内置数据库检索或追踪检测结果。

- Running on Windows
- Vehicle information registration
- Brake force curves
- Side slip value
- Suspension curves
- Self diagnostic
- Self zeroing
- Mal-function sensors indication automatically
- Intelligent calibration
- Summary report and curve report output
- Test database
- RS-232 and Ethernet ports
- English version software and other language available

- 视窗操作系统
- 车辆信息登录
- 制动力曲线
- 侧滑值
- 悬架曲线
- 故障自诊断
- 自动清零
- 自动指示传感器故障
- 智能标定帮助
- 数据打印与曲线打印
- 检测数据库
- RS232C、网络接口
- 其它语言软件可选



Vehicle Inspection System

## Side slip Tester 侧滑检测台

Items 项目		SSP-3	SSP-10
Alex load tested 允测最大轴质量	kg	2,500	10,000
Side slip test range 量程	mm/m	±10	±10
Testing speed 测试速度	km/h	5-10	5-10
Accuracy 精度	% F.S.	±2%	±2%
Dimension 外形尺寸	mm	750×650×50	750×900×50
Separate distance between left and right plate 左右间距	mm	900	900
Test plate height by ground surface installation 测试板厚度	mm	50	70
Weight of side slip test plate 测试板自重	kg	50	70
Operation temperature 使用温度	°C	5-40	
Operation humidity 使用湿度		< 95% no condense 无结露	

## Speedometer Tester 车速表测试台

Items 项目		TSB-3	TSB-10
Alex load tested 最大轴荷	kg	2,500	10,000
Speed test range 量程	mm/m	120	120
Accuracy 精度	kW	±1%	±1%
Roller dimension 滚筒尺寸	mm	☒190×700	☒190×1000
Roller spacing 滚筒间距	mm	380	450
Air pressure 气源压力	MPa	0.7-0.8	0.7-0.8
Operation temperature 使用温度	°C	5-40	5-40
Dimension of equipment 外形尺寸	mm	2390×725×375	3200×860×440
Weight 自重	kg	600	600

## Suspension Tester 悬架测试台

Items 项目		SUP-3
Wheel load tested 允测最大轴质量	kg	1,500
Dimension of each vibration plate 测试板尺寸	mm	650×400
Vibration amplitude 激振幅度	mm	6
Motor power 电机	kW	2×2.2
*Power supply 电源		380VAC 3P 50Hz
Operation temperature 使用温度	°C	5-40
Operation humidity 使用湿度		<95%
Dimension 外形尺寸	mm	2390×580×375
Weight 自重	kg	620

## Roller Brake Tester 滚筒式制动测试台

Items 项目		BKR-3	BKR-10
Alex load tested 允测最大轴质量	kg	3,000	10,000
Brake force range for each wheel 制动力量程	N	10,000	30,000
Roller diameter 滚筒直径	mm	245	245
Roller axle separation 滚筒间距	mm	380	445
Testing speed 测试速度	km/h	2.4	2.5
Track distance Min 最小跨距	mm	900	950
Track distance Max 最大跨距	mm	1800	2400
Roller set dimension 台架尺寸	mm	2885×770×350	3950×955×540
Accuracy 精度	% F.S.	±3%	±3%
Drive motor 驱动电机		2×4	2×11
Operation temperature 使用温度	°C	5-40	
Operation humidity 使用湿度		< 95% no condense 无结露	
Weight 自重	kg	600	1600

## Console 控制系统

1. U3 console body U3 型柜体	Corrosion free surface by powder spray 表面防腐喷涂处理
2. Computer system 计算机系统	Industrial PC, Intel Core 2 Duo E5200, 2G Memory, 1T Hard Disk, 10/100M Ethernet Port, 19" LCD, Laster-jet A4 printer
3. Communication Protocol 联网通讯	TCP/IP
4. Optional 选件	Tamper recognizing device 防止非法接近装置
5. Air pressure 气源压力	0.6~0.9MPa
6. Power supply 电源	220VAC 50Hz 2kW
7. Operation temperature 使用温度	5~40°C
8. Operation humidity 使用湿度	≤90% (无结露)
9. Dimension 外形尺寸	900×600×1100mm

\*Note: Other specification of power supply is available on request.  
注:如需其他规格的电源请在订货前提出。

## System Configuration 系统结构



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