

COSBER Intl. PTI

Product & Customers

Our Mission

*Delivery High-Technology Vehicle Inspection Solution and
Comprehansive Service to our PTI Cooperators in the World.*

-- Trusts and Solutions in PTI

We are here to accommodate you with our best solutions!

International Sales Team China

Sales Area: Asian/Pacific, Middle East, Africa & South America



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01	Automatic PTI Solution
02	About Cosber Manufacturing
03	High Quality of Equipment
04	International Customers Cases
05	Comprehansive Service

Understanding of PTI Solution: *Automatic System Serves People*

COSBER is working in the middle of Vehicle Inspection Industry



Vehicle Owner:

Easy scheduling, short waiting time, easy access to test results.



Authority:

Big data organization, improvement in regulation of road safety



Station Manager:

Monitoring of operation, high efficiency of performance.



Site Inspector:

User friendly operation of equipments, clear working process



Motor Vehicle Inspection Public Scheme



Vehicle Info. DBS



V.I.S. Supervision Mgt.



Scheduling Module



COSBER CVIS control system



COSBER Testlane Equipment

Functional Operations for Inspection Industry



Inspection Registration



Number Plate Recognition



Operation Control Program



Standard Judgement



Report Form Setting



User Management



Database Management

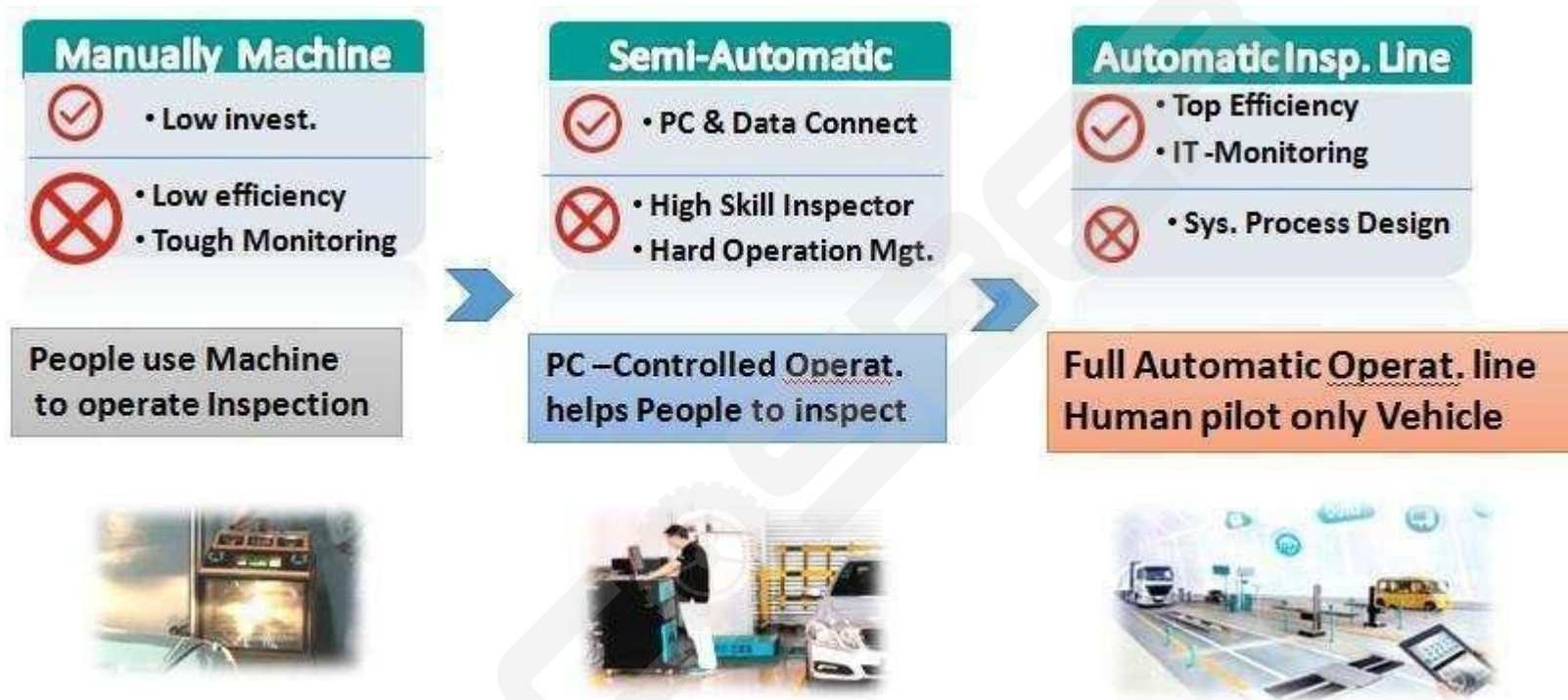


Accounting Assistant



CCTV

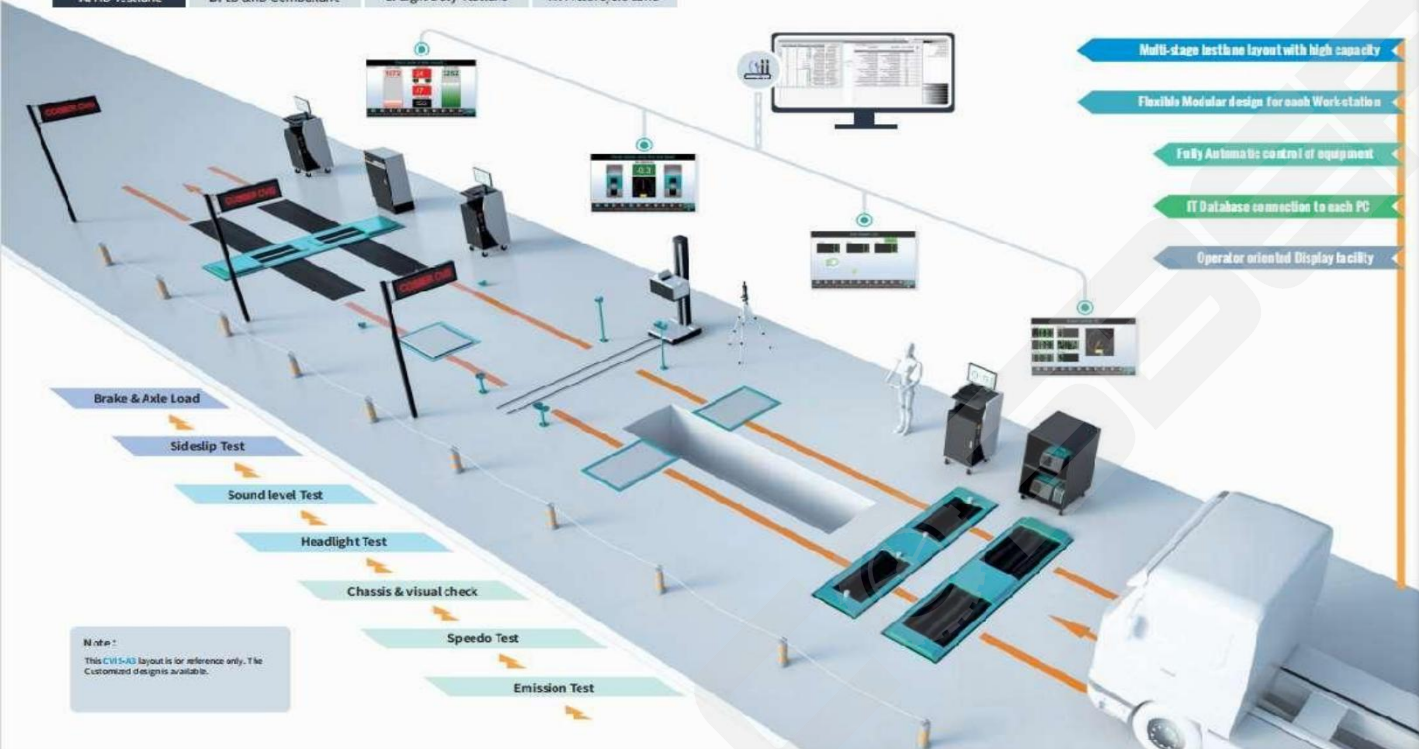
Evolution of PTI model: *Develop to Automatic Testlane*



Automation of: Equipment-WorkStation-Testlane

3-WorkStations Heavy Duty Testlane Layout (A3)

A: HD Testlane B: LD & HD Combo.lane C: Light Duty Testlane N: Motorcycle Lane



IT Hierarchy:

Network
Database

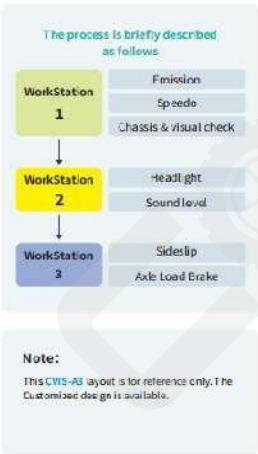
Main control
Server PC

Workstation
PC









Equipment
Machine



11



Testlane Layout & Equipment Legend

Icon	Test Item	Equipment
	Accuracy of vehicle speedometer	Speedometer tester
	1. Gasoline vehicle CO, HC concentration value (High / low idle RPM method); CO, HC & NO Concentration (Acceleration method). 2. Diesel vehicle Random acceleration Exhaust Contamination Value and Light Absorption Coefficient (m-1) or Opacity (Rb).	Gas analyzer Opacimeter or Smoke meter
	1. Wheel (axle) load 3. Wheel resistance 5. Wheel brake force 2. Left / right brake balance 4. Total brake rate 6. Park brake	Roller brake tester Pedal force meter Wheel (Axle) load tester
	Steer wheel sideslip value and direction	Sideslip tester
	1. Headlight-High beam Luminous intensity, optical axis deviation (up / down / left / right). 2. Headlight-Low beam Luminous intensity, optical axis deviation (up / down / left / right).	Automatic headlight tester
	Horn value & Noise level	Sound meter
	1. Vibration frequency 2. Suspension absorption rate 3. Left / right absorption difference	Suspension tester
	1. Steer system 2. Powertrain system 3. Rolling system 4. Brake system 5. Chassis system 6. Electronic part	Special hammer Play detector Steer angle tester

CL: WorkStation Equipment Control Software

1) Work-Station equipment control system CVIS-CL



Enter The Vehicle Information of The Vehicle To Be Tested



Sideslip Test



Suspension Test



Front and Rear Wheel Resistance and Brake Test



Parking Force Test



Headlight Test Interface



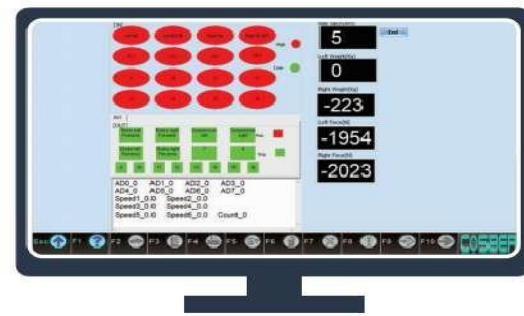
Gas Analyser Test Interface



Opacimeter Interface



Speedometer Test Interface



CVIS-CL Signal Diagnostic & Self-test

IIS: PTI Info. Management System software



CVIS-IIS Inspection Operation (Business) program Interface

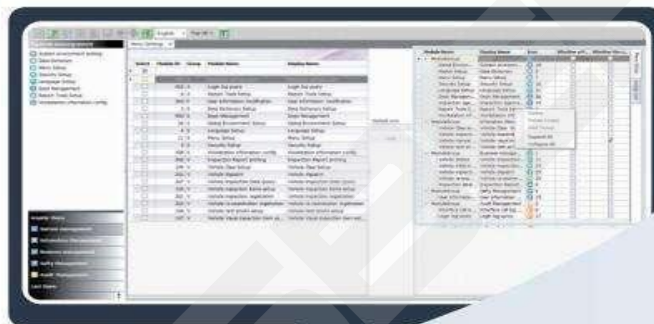
Inspection Operation (Business) program



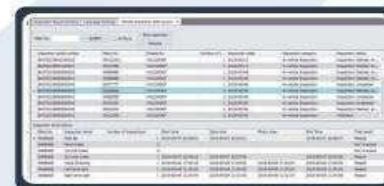
1) Vehicle Information Login interface



2) Vehicle task Ordering



6) Test report printing



5) Inspection Result Data management

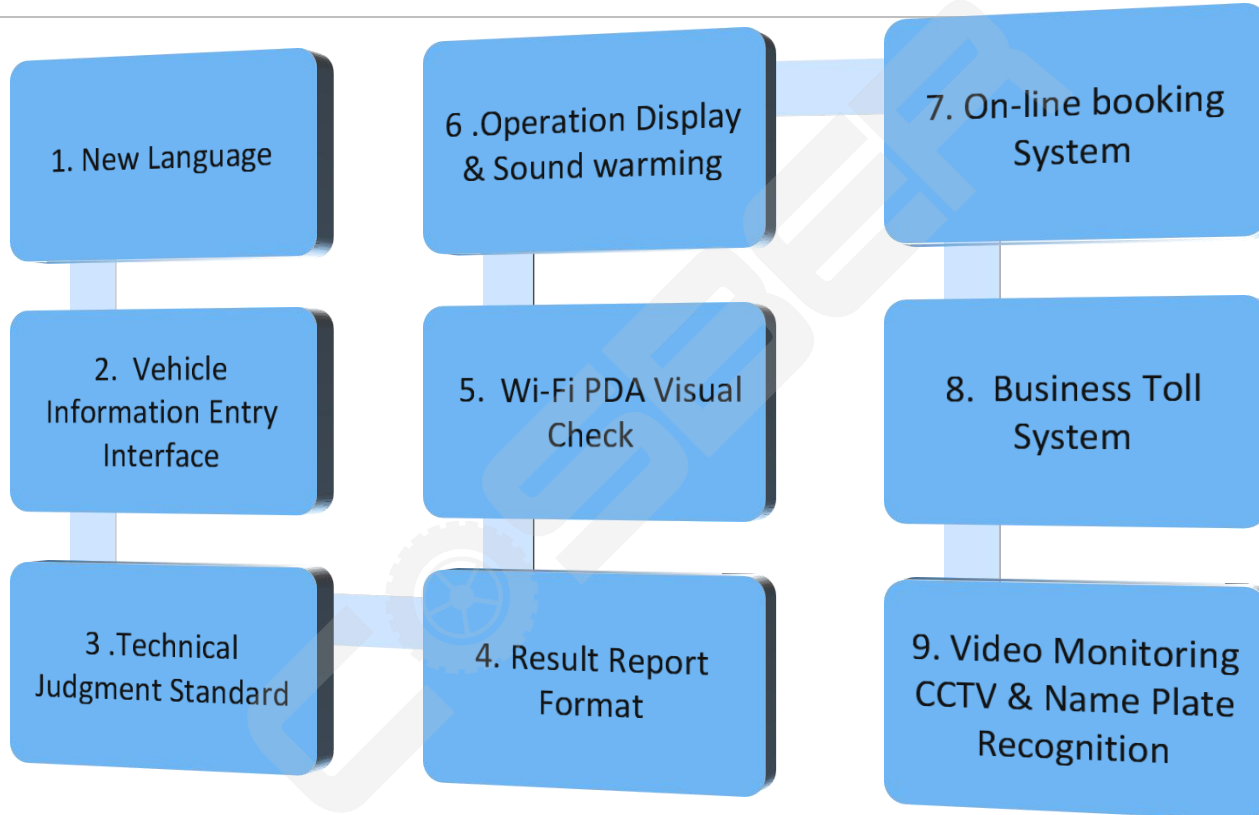


3) Visual Check and PDA



4) Work Station & Equipment operation control

Customizable Order Software Service



Stream-line & Automatic: Creates Value to PTI



TRANSPARENCY

A complete overview of PTI operations with Database networking technology



EFFICIENCY

Improving Vehicle Inspection with a fully automatic operation system by computerization



FLEXIBILITY

Modular network Software frameworks facilitate the multi-functions task and customized Solutions

01

Automatic PTI Solution

02

Cosber Manufacturing

03

High Quality of Equipment

04

International Customers Cases

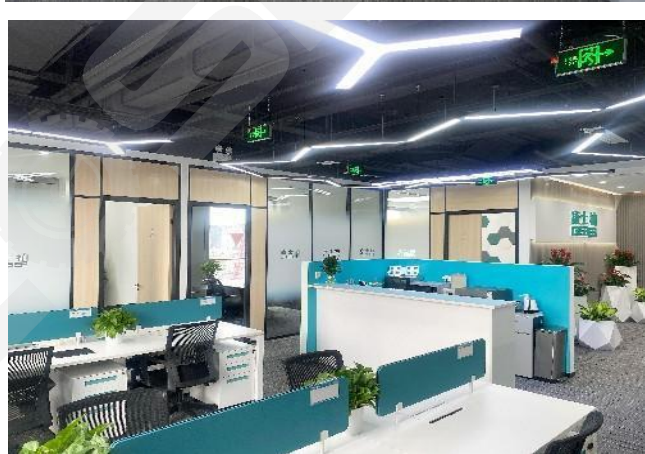
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Comprehansive Service



COSBER—New Tech. & New Energy Oriented





Advanced Technology

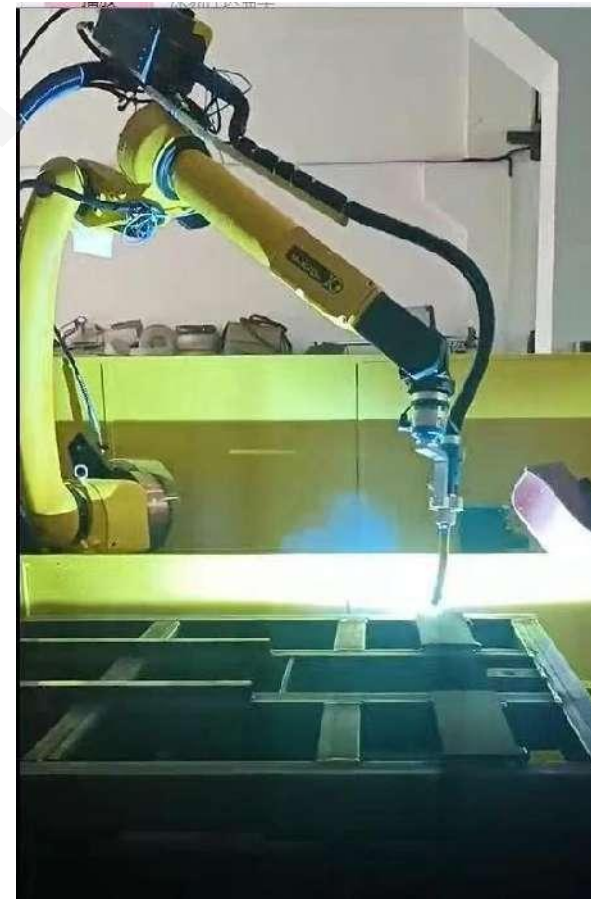
国内领先、国际先进的技术水平
各层级技术水平和核心技术指标
均处于行业领先地位。



Full Supply Chain

国内领先、国际先进的智能生产
工厂，推出全系列汽车检测产品，
多元化新能源检测设备。





COSBER—New Tech. & New Energy Oriented

COSBER



01	Automatic PTI Solution
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Meet International Standards with High Functionality!

CE&ISO Certificate / CMC Certificate



粤制03000151号

Equipments approved in China, UK, Thailand, New Zealand & Germany DEKRA.



Corporate Member of [CITA International Motor Vehicle Inspection Committee](#)



German Approval for Inspection Equipments

Full Range of Roller Brake Tester



Full Range of Roller Brake Tester

Technical data

Item	C-BTC 2X	C-BTC 3X	KZZD-10
Max. measure load	4 000 kg	4 000 kg	13 000 kg
Measurement range	0~8 000N × 2	0~8 000N × 2	0-30 000N × 2
Wheel diameter	400~800 mm	450~900 mm	600-1100 mm
Wheel tread	800~2 200 mm	800~2 800 mm	750-2 850 mm
Roller Dimension	φ205 x 700 mm	φ205 x 850 mm	Φ245 x 1100 mm
Coef. friction (dry/wet)	> 0.7 / 0.6	> 0.7 / 0.6	> 0.7 / 0.6
Motor power	2×3 kW	2×4 kW	11kW × 2
Test Speed	5.1 km/h	5.1 km/h	2.5 km/h

Full Range of Roller Brake Tester

Equipment model	C-BTT 5x/6x	C-BTT 7x/8x
Maximum drive over load	13 000 kg	18 000 kg
Measurement range	0 ~ 40 000 N	0 ~ 40 000 N
Wheel track width	1000~3000 / 1100~3100 / 1200~3200 mm	1000~3000 / 1100~3100 / 1200~3200 mm
Roller diameter	Ø 208 mm	Ø 248 mm
Roller length	1 000 mm	1 000 mm
Coefficient of friction (dry / wet)	> 0.7 / 0.6	> 0.7 / 0.6
Roller test speed	2.5 ~ 5 km/h	2.5 ~ 5 km/h
Roller height difference	30 mm	50 mm
Motor power	9 kW 11 kW	15 kW 13~17 kW
Dimensions (L × W × H)	3220 × 1040 × 686 mm	3490 × 1240 × 806 mm
Equipment weight (ca.)	> 1 500 kg	> 1 800 kg

Vehicle Suspension Tester



C-ESC20



C-ESC70

Features

- ▶ EUSAMA measurement standard.
- ▶ Wheel load function integrated.
- ▶ Protection program (plates start vibrating when load is >200kg).
- ▶ High precision sensor ensures the accuracy of inspection result.
- ▶ Galvanized plates with longer service life.
- ▶ Result display in visual graph.

Technical data

Item	C-ESC20	C-ESC70 Split body
Max. drive-over load	4000 kg	10000 kg
Max. test wheel load	1500 kg	1500 kg
Vibrate plate dimensions	700 × 300 mm	650 × 400 mm
Oscillation	6 mm	6 mm
Vibrate frequency	≈24 Hz	≈24 Hz
Motor power	4.0 kw x 2	4.0kw x 2
Power supply	3PH 380V, 50Hz,ground	3PH 380V, 50Hz,ground



PC Control

Sideslip Tester



KCH-18B



KCH-15D



KCH-3EN

Features

Sideslip Plate & Protection Frame integrated structure

Sideslip plate locker with inner key.

Maintenance-free body design.

Galvanized plate surface for longer service life.

High precision sensor to ensure the exactitude of result.

Upper and lower Dual Bearing System makes smooth movement.

Options of synchronic or independent motion type for different regulation requirements.

Over-value alarm function.

Technical data

Item	KCH-3EN	KCH-15D	KCH-18B
Max. axle weight	3000 kg	15000 kg	18000 kg
Measuring range	±20 m/km	±20 m/km	±20 m/km
Sideslip board dimensions	600×500 mm	1100×1000 mm	750×1000 mm
Release board dimensions	600×250 mm	1100×300 mm	/
Structure form	Single plate with release	L-R double plate	single test plate
Power supply	AC 220V, 50Hz,ground	AC 220V, 50Hz,ground	AC 220V, 50Hz,ground

Speedometer Tester



KCS-15



KCS-3



KZG-15

Features

Using of reinforced steel guarantees strong and durable structure-bodies.
High adhesion coating paint for longer working life.
High precision sensor and high roundness of roller ensure the exactitude of result.
Air-lifter and roller brake system eases the exit of vehicles.
0-130km/h measurement range, wireless remote controller.
Optional pneumatic free roller set for AWD vehicle & Tandem truck.
Standard RS-232 connection port.

Technical data

Item	KCS-3	KCS-10	KCS-15	KZG-15 Pneu. Free Rollers
Max. axle load	3000 kg	10000 kg	15000 kg	15000 kg
Measurment range	0-130 km/h	0-130 km/h	0-130 km/h	0-130 km/h
Roller dimensions	Φ190×900 mm	Φ190×1100 mm	Φ190×1100 mm	190×1100 mm
Roller tread	380 mm	405 mm	405 mm	3 sets
Roller width	850-2400 mm	750-2950 mm	750-2950 mm	0 -900 mm longitudinal
Air supply	0.5-0.6 MPa	0.7-0.8 MPa	0.7-0.8 MPa	0.7-0.8 MPa
Power supply	AC 220V, 50Hz	AC 220V, 50Hz	AC 220V, 50Hz	AC 220V, 50Hz

Wheel Play Detector

Features


Different movements of the plates are available.

Hydraulic unit increases user convenience.

Extra heavy duty structure, robust and lower noise design.

Technical data

Item	KJX-10	C-PDX72
Plate dimensions	1000 x 750 mm	1000 x 750 mm
Maximum displacement of plate	100 x 100 mm	100 x 100 mm
Maximum axle load	15000 kg	15000 kg
Maximum wheel load	7500 kg	7500 kg
	6 directions	8 directions
Movement direction	(Left Plate: front / rear & left / right, Right Plate: front / rear)	(Both left and right plate has 4-direction movement)
	30 kN	40 kN @130m/s
Max.displacement force of platenControl	Individually per platform	Individually per platform
Power supply to control unit	3PH,380V, 50Hz, ground	3PH, 380V, 50Hz, ground
Motor Power	2.2 kw	4.0 kw

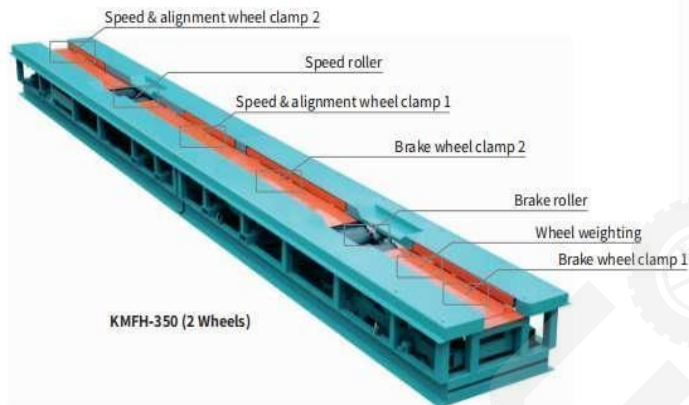


Remote control
with LED lamps

Automatic 2 & 3 Wheels Testlane

Description

Motorcycle Tester is specially designed to inspect the brake performance and axle-load value of Motorcycle. Combined with the Wheel clamp Speedometer & Wheel Alignment (optional) . It is advanced equipment for Motorcycle Safety Technical Inspection Center, and it is also largely used in Motorcycle repairing industry and Assembly Factory.



Features

- ▶ Automatic&pneumatic clamps control process for smooth and safe operation.
- ▶ High adhesion coating paint for longer working life.
- ▶ High precision sensor and high roundness of roller ensures the exactitude of result.
- ▶ Combination of Wheel load, Brake, Speedometer and wheel alignment test facilities.
- ▶ Standard RS-232 connection port.

Technical Data

Item	KMX-350	KMX-350Q
Measuring range	0-500 kg	0-1000 kg
Max. wheel weight	350kg	750 kg
Brake force	0-3000 N	0-3000 N × 2
Measurement speed	0-80 km/h	0-80 km/h
Brake motor power	1.5 kW	2 × 1.5 kW
Speed motor power	1.5 kW	2.2 kW
Motor type	Variable speed	Variable speed
Equipment weight	1250 kg	1850 kg
Air supply	0.5-0.6 MPa	0.5-0.6 MPa
Power supply	AC 380V, 50Hz, ground	AC 380V, 50Hz, ground

Chassis Dynamometer

Features

- ▶ Extremely Durable Eddy-Current Retarder with Over-temperature Protection.
- ▶ Groove cut Roller ensure the high friction with wheels.
- ▶ Multiple painting process, long-lasting of metalized paint.
- ▶ Display of chassis power, acceleration time, spot speed and traction force.
- ▶ High adhesive and well-balanced roller.
- ▶ Easy compatibility with external diagnostic equipment, RS-232 port & USB.



KDC-3GT



Dynocosber-1000P



Eddy-Current Retarder



Dynocosber-2000P



Dynocosber-X3000

Technical Data

Item	KDC-3GT	Dynocosber-1000P	Dynocosber-2000P	Dynocosber-X3000
Max. axle load	3500 kg	2000 kg	2000 kg×2	3500 kg
Roller diameter	216 mm	218 mm	218 mm	320 mm
Roller length	1000 mm	850 mm	850 mm	850 mm
Roller center distance	442 mm	430 mm	430 mm	483 mm
Roller set quantity	2 Sets	2 Sets	4 Sets	2+3 Sets
Roller surface	Cross lathe + Chrome coating	Groove cut + Chrome coating	Groove cut + Chrome coating	Groove cut + Chrome coating
Max. test speed	200 km/h	250 km/h	250 km/h	250 km/h
Max. test power	400 P	600 P	1200 P	1500 P
Retarder power	Fly wheel inertia	250 kw	250 kw×2	160 kw×2
Drive out mode	Pneumatic	Retarder brake	Retarder brake	Pneumatic
Speed indication error	±1%	±1%	±1%	±1%
Torque indication error	±2%	±2%	±2%	±2%
Constant speed error	±1 km/h	±1 km/h	±1 km/h	±1 km/h
Wheel tread	600-2700 mm	700-2200 mm	700-2200 mm	700-2200 mm
Power supply	AC 220V, 50Hz, ground	AC 220V, 50Hz, ground	3ph, 380V, 50Hz, ground	3ph, 380V, 50Hz, ground
Equipment dimensions	4000×370×645 mm	3070×850×448 mm	3070×4350×572 mm	3915×3650×548 mm



Automatic Headlight Tester

Technical data



Headlight detect sensor

COS2800

Item	COS2800
Application Range	Headlight of the vehicle (light- & heavy-duty vehicles): Halogen, Xenon, Led
Positioning ways	Justification: Linear laser aid Centering: Point laser aid
Communication	PC, Cable and wireless
Measurement Range	Above:0-350 mm / 10 m (0-2°) Below:0-525 mm / 10 m (0-3°) Left:0-525 mm / 10 m (0-3°) Right:0-525 mm / 10 m (0-3°) Measuring distance:0.5m defaulted,and it can be set in accordance with the practical needs Height measuring range:250-1400 mm
Light intensity	Measuring range of far light illuminating intensity:0-120000 Candela (cd)
Error of indicating value	Error of indicating value of far light illuminating intensity:±10% Error of indicating value of far light & near light axis offset:±12'
Working condition	Temperature:-5 ~ 40°C Relative humidity:20-80%
Voltage supply	Power supply:AC 220V ±10% 50/60Hz Battery:DC 12 V
Net. Dimensions	Headlight (W x H x D):703 *616 *1810 mm
Weight	120 kg

Vehicle Emission Tester

Exhaust Gas Analyser



KWQ-5

Technical Data

Item	KWQ-5
Connection of sample gas	Specific intake port
Sample gas flow rate	Approx. 6 l/min
Sample gas pressure	From 0.01 kPa to 1.0 kPa
Repeatability	CO: 0-10.00% within $\pm 0.02\%$ vol or $\pm 3\%$ of readings, 10.01-15.00% within $\pm 5\%$ of readings CO ₂ : 0-15.00% within $\pm 0.3\%$ vol or $\pm 3\%$ of readings, 15.01-18.00% within $\pm 5\%$ of readings HC: 0-2000 ppm within ± 4 ppm vol or $\pm 3\%$ of readings, 2001-5000 ppm vol within $\pm 5\%$ of readings, 5001-10000 ppm vol within $\pm 10\%$ of readings O ₂ : 0-19.00% within $\pm 0.4\%$ vol or $\pm 3\%$ of readings, 19.01-25.00% within $\pm 1.0\%$ vol NO: 0-5000 ppm vol within $\pm 8\%$ ppm vol or $\pm 3\%$ of readings
Power supply	AC 100-220V 50/60Hz
Mass	Approx. 7.5 kg
Warm-up time	30 seconds
Response time	10 seconds

Smoke Opacimeter

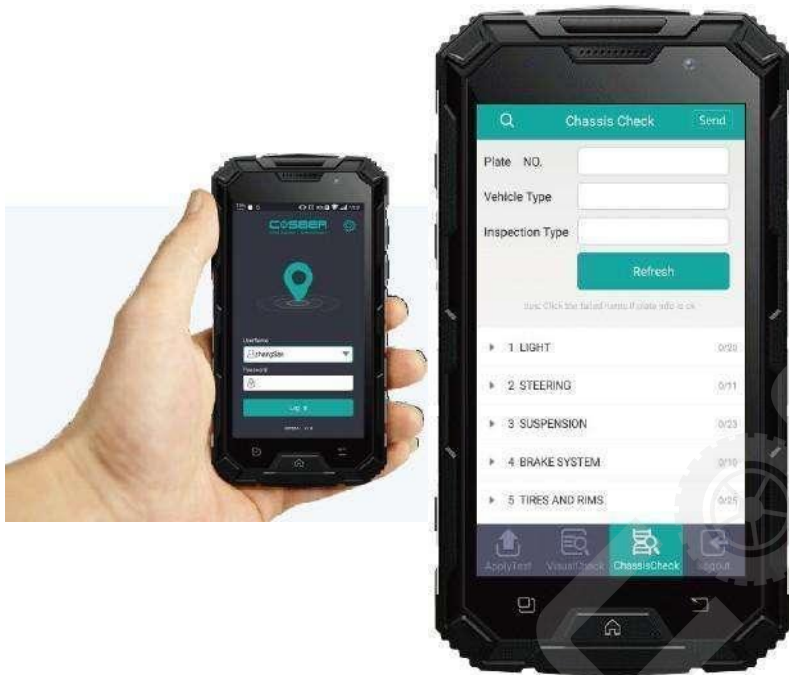


KYD-6

Technical Data

Item	KYD-6
Measuring Range	Opacity N: 0-99.9% Coefficient of light-absorption k: 0-16m ⁻¹
Resolution	Opacity N: 0.1% Coefficient of light-absorption k: 0.01m ⁻¹
Indication error	$\pm 2\%$
Stability	$\pm 1\%/h$
Ambient temperature	5-40°C
Relative humidity	0-90%
Power	AC 220V $\pm 10\%$ 50Hz $\pm 1\%$
Weight	10 Kg
Output	RS-232/1200, 2400, 4800, 9600, 19200

Visual-check Wireless PDA Input Terminal



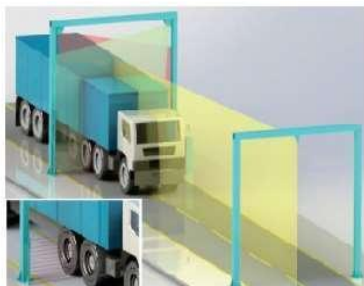
COSBER Visual-check Wireless PDA Input Terminal(CSB-PDA) is designed for users who need a truly portable, compact and durable PDA for data collection and photograph upload during Vehicle Inspection. It fits all kinds of Vehicles and equipped with “3-proof” (Water-Proof/Shock-Proof/Dust-Proof) smart mobile phone.

Key features

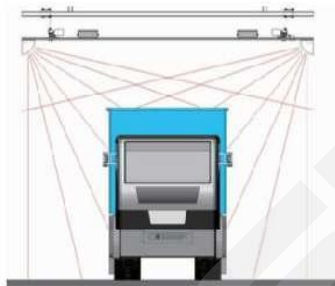
- Multi-language (English/Spanish/French/Thai/German).
- Access & Transmit (All test results can be transferred to COSBER Automatic Test lane control system).
- Vehicles' Log-in Information Confirm and Inspectors' information Input.
- Collecting photos' of fault items for Visual check & Chassis check.
- Real “No-paper” Inspection: High-efficiency & Environmental friendly.
- Able to cooperate with Automatic number plate recognition System (CSB-ANPR) & Underground Sense Coil system (CSB-SCS) .

Automatic 3D Dimension Scanner

Based on the latest 3D Laser and Cloud data processing technology, COSBER has developed C-VDSS1/2 system, a high precision 3D Laser Radar dimension scanner suitable for all types of vehicles. High performance Laser Radar sensors automatically scan the driving through vehicle and collect the 3D dimension information. The C-VDSS1/2 system stands years of real practice in China inspection centers for millions vehicle test, showing its strong multiple functions and high reliability.



C-VDSS-1



C-VDSS-2

Key Benefits

Automatic

One-key automatic measurement by Drive-through Mode within 30s, Vehicle Static mode within 60s.

Flexible Installation

Special design of installation kit fits for Indoor, Outdoor and even inside testlane installation case.

Large Dimension

Measurement range of Height from 0~6 m, Length from 0~25 m, depending on site layout condition.

All weather operation

Outdoor water-resistant with IP68 certificate, wide range of working temperature: -20°C~50 °C.

Accuracy

Professional 3D radar technology & Multipoint Matrix Algorithm ensure the result accuracy within 1%, display graduation is mm.

Database Access

Local Data management integrated and i-Cloud connection accessible.

C-VDSS Working Process



Technical parameters

Model	C-VDSS-1 (Dynamic)	C-VDSS-2 (Static)
Test Mode	Non contact, Vehicle Dynamic	Non contact, Vehicle Static
Test Time	< 30 seconds	< 60 seconds
Length Test range	0 ~22 meters	0 ~20 meters
Width Test range	0 ~ 5 meters	0 ~ 5 meters
Height Test range	0 ~ 6 meters	0 ~ 6 meters
Laser Accuracy	≤20 mm	≤20 mm
Test result Repeatability	99%-99.2%	99%
Resolution	1 mm	1 mm
Ground Flatness Requirement	± 20mm per 10 meter	± 10mm per 10 meter
Vehicle drive through speed	average speed within 10km/hour	Static during test
Protocol	Ethernet 100 Mbit TCP/IP	Ethernet 100 Mbit TCP/IP
Laser radar scanning unit	3 PCS fix positions	2 PCS movable by rails
Qualification	IP68 & CE	IP68 & CE
Power Supply	200W / 220V / 50Hz	1200W / 220V / 50Hz
Working condition	-30°C to 50 °C Temperature / 20 ~ 95% Humidity	-10°C + 45 °C Temperature / < 85% Humidity

Number Plate Recognition System

Asia	Southeast Asia	Europe	Middle East	North American	South American
Japan	Malaysia	Spain	Dubai	Canada	Brazil
India	Singapore	Hungary	Saudi Arabic	Mexico	Ecuador
Mongolia	Vietnam	Latvia	Lebanon	Guatemala	Peru
Sri Lanka	Indonesia	Russia	Jordan	Honduras	Paraguay
Uzbekistan	Cambodia	Austria	Turkey	United States	Colombia
Kazakhstan	Myanmar	Czech Republic	Israel	Cuba	Venezuela



Cabinet material: Iron plate metal 2.0
 Housing: Weatherproof housing for camera
 Camera: 1/3CMOS, 2M pixel
 Camera lens: (2.8-12mm) Automatic aperture
 Display: Led display with two colors
 Display size: 128*64cm
 Fill light: automatic light sensor < 30Lux
 Recognition rate: > 98%
 Recognition speed: < 30 km/h
 Recognition distance: 3-6M
 Recognition method: TGW Software
 Camera pixel: 1920*1080
 Communication interface: TCP/IP
 Network: RJ45, 100M
 Power supply: DC12V
 Voltage: 220 v / 110V ± 10%
 Work temperature: -25°C ~ 70°C
 Work humidity: ≤ 85%
 Display language: Support Multi-language display Ex. Chinese, English, Thailand, Saudi Arabic, Bangladesh, Mongolia and so on

Note: Due to the different requirements of data agreement and regulations in different countries, the specific implementation plan needs to be conducted separately.

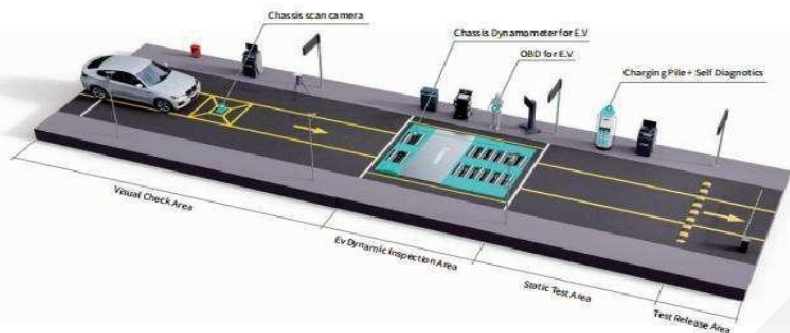
Integrated Innovation- EV Inspection Solution

COSBER

In Used Electric Vehicle Inspection Solutions

Background

According to the requirements of the national New Energy Vehicle Development Plan (2021-2035) in China, the sales of new energy vehicles will represent 20% of the total vehicles sales by 2025. In order to ensure the on road safety, charging and drivers with electric vehicles, the in used electric vehicles should be tested and evaluated with effective and pragmatic method.



Inspection Process



Plan To Introduce

In 2020, the Ministry of Industry and Information Technology organized and formulated three mandatory national standards in China. Based on the Operation safety, Battery health and Personal safety of electric vehicles, this regulation provides after-market services for the electric vehicle industry by setting test procedures for the Electric vehicles: Conducting vehicle appearance, Electrical safety and Charge and discharge tests, and analyzing the overall operation data of electric vehicles.

GB18384-2020
Electric Vehicles Safety Requirements

GB38032-2020
Electric Buses Safety Requirements

GB38031-2020
Electric Vehicles Traction Battery
Safety Requirements

Automatic license plate recognition, Battery pack Chassis check



By scanning the chassis of the electric vehicle, the appearance of the battery pack attached to chassis of EV is detected.

Vehicle electronic system diagnostic testing



Through E.V OBD tools, the functionality of electronic devices in EV is E-tested.

Bms battery test



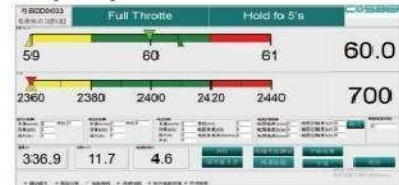
Evaluate the state of charge of power battery pack, including of voltage, temperature, SOC, charge and discharge current difference, and also the total voltage of the battery pack are collected.

Electrical safety testing & Interoperability testing



E.V safety performance testing with interoperability, communication protocol conformance test, automatically analysis of data and generate test reports.

Evaluation of E.V driving Power and driving stability ability



Test of driving power and stable driving performance by a full capable Chassis dyno systems.

01	Automatic PTI Solution
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04	International Customers Cases
05	Comprehansive Service

COSBER today is the Leader of China PTI Equipments market



- > 3000 equipments /year delivered
- 6 Service Centers & 21 local Partners
- Member of National Standard Committee
- > 20 National technical Patent & I. P. Right
- Unique CITA Corporate Member from Asia.

- ★ Beijing Capital
- Important Provical Client Center
- Main Service & cooperation Partner



Customers Service:

- Tech. Consultant
- Layout design
- Engineering
- Training service
- Installation & Maintenance
- Calibration
- Demonstration
- Software Dvp.
- Logistics
- Commissioning
- Key on hand project

Solution for PTI station

Our International Customers



China



Germany



UK MOT



New Zealand



Turkey



Georgia



Ukraine

Solution for PTI Station

Our International Customers



Indonesia DLT



Cambodia CMVIC



Ghana Bensam



Syria Damascus



Thailand MOT



Hong Kong



Laos

Solution for PTI Station

Our International Customers



India DLT



Thailand DLT



Brunei



South Africa W.E



Iran DLT



Emirate Transport



Mongolia

Solution for Vehicle Manufactory

Leave-factory line



GEELY Venezuela



Spe.V Malaysia



DongFeng Export



CAMC China



JAC Uruguay

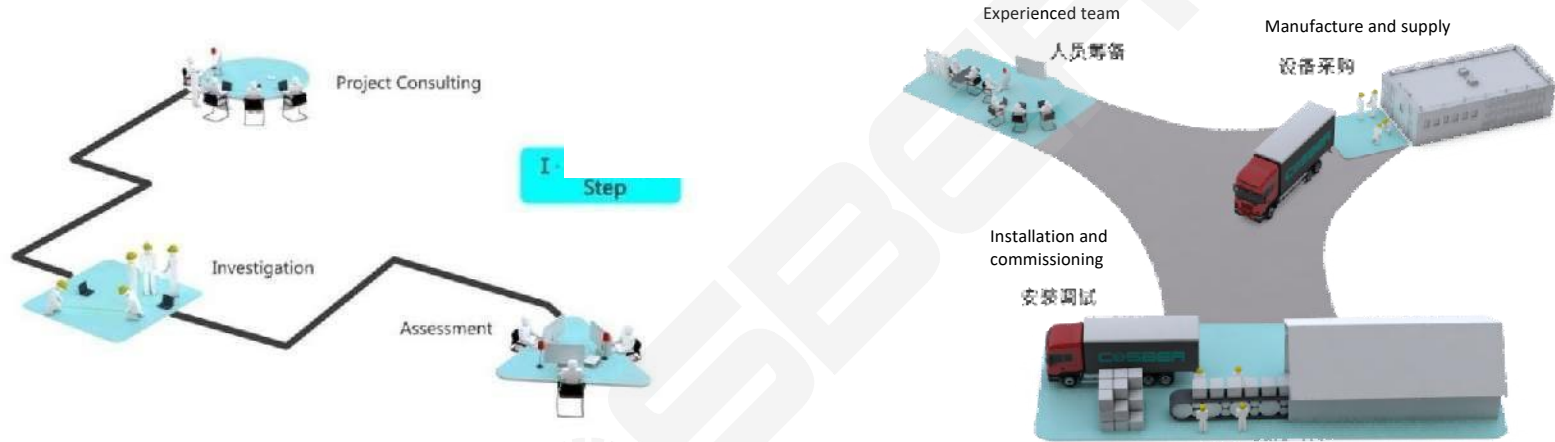


JAC Mexico



01	Automatic PTI Solution
02	Cosber Manufacturing
03	High Quality of Equipment
04	International Customers Cases
05	Comprehansive Service

Customers Service & Project Supports



Project Evaluation

Decades of professional consult team

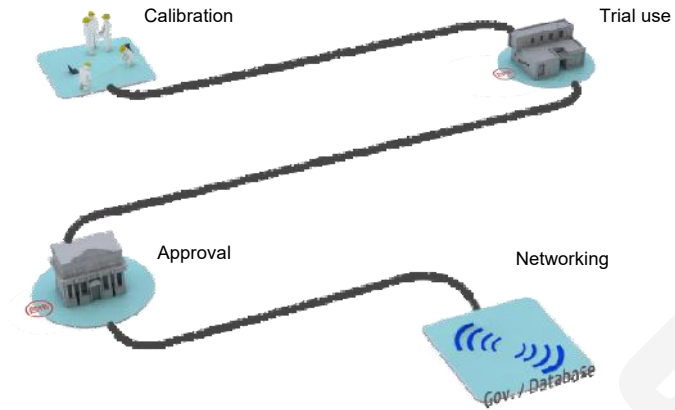
- Project analysis
- Investigation
- Project assessment

Project Planning

Tailored consultancy

- Expertise in PTI design
- Logistics solution
- Installation and commissioning

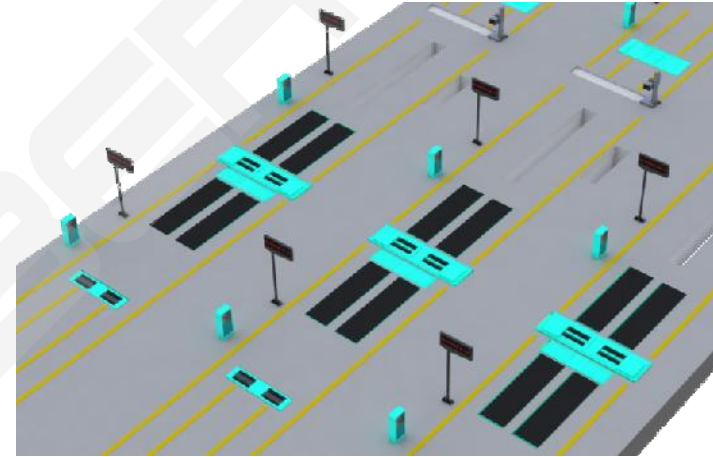
Customers Service & Project Supports



Project Approval

Professional team assists you in

- Qualification examination
- Calibration & maintenance
- Data networking



Project Handover

Highly skilled service

- Higher efficiency
- Ensure operation
- Continuous 24-hour service.

Service Step 1 : PTI Customers Technical Inquiry



COSBER PTI CUSTOMER INQUIRY

Editor/填写人: _____ Place and date/地点及时间: _____

CUSTOMER INFORMATION / 客户信息

Customer name/客户名称: _____ Country, region/国家、地区: _____

Type of customer/客户类型

- ☐ Dealer/经销商 ☐ Chain operating company/连锁经营公司 ☐ Government inspection station/政府检测站
☐ End-user/终端用户 ☐ Private inspection station/私家检测站 ☐ Workshop, garage, 4S store/维修厂、4S店
☐ Car assembly plant/汽车制造厂 ☐ Independent service corporation/独立服务机构
☐ Other(please specify)/其他 (请注明): _____

Project Status/项目阶段

- ☐ Consult/咨询 ☐ Quote/报价 ☐ Operate/运营 ☐ Other(please specify)/其他 (请注明): _____

VEHICLE INFORMATION / 车辆信息

Type of vehicle/车辆类型

- ☐ Gasoline vehicle/汽油车 ☐ Diesel vehicle/柴油车 ☐ Electrical vehicle/电动车 ☐ LPG/液化石油气汽车
☐ Other(please specify)/其他 (请注明): _____

Right-hand or left-hand traffic/驾驶位置

- ☐ L/左驾驶 ☐ R/右驾驶 ☐ Other(please specify)/其他 (请注明): _____

Type of Chassis/车辆底盘类型

- ☐ Real time 4WD/实时四驱 ☐ AWD /分时四驱 ☐ 2-axis linkage for rear 2 axes /后双桥双轴独立驱动
☐ 2-axis linkage for rear 3 axes/后三桥双轴独立驱动 ☐ Other(please specify)/其他 (请注明): _____

Axle load/轴重

Axle load up to/最大轴重: _____ N;

Wheel track/轮距

Max. outer wheel track/最大外轮距: _____ mm; Min. inner wheel track/最小内轮距: _____ mm

Outline size/车辆外形

Max. dimension of vehicle/最大车辆外形: L×W×H/长×宽×高 _____ mm

Min. dimension of vehicle/最小车辆外形: L×W×H/长×宽×高 _____ mm

Wheelbase/轴距

Max. wheelbase/最大轴距: _____ mm; Min. wheelbase/最小轴距: _____ mm

PRODUCT INFORMATION/产品信息

Process, Work-position layout/检测流程/工位布局

- ☐ High throughput/高效率 Inspections each day/每天检测量: _____
☐ Low throughput/低效率 Inspections each day/每天检测量: _____
☐ Multi-position lanes/多工位检测线 ☐ Single-position lanes/单工位检测线 ☐ Automated test lane/自动化线
☐ Semi-automated test lane/半自动化线 ☐ Other(please specify)/其他 (请注明): _____

Equipment selection/设备选型

- ☐ Brake tester/制动台 ☐ Suspension tester/悬架台 ☐ Sideslip tester/侧滑台 ☐ Headlight tester/大灯
☐ Chassis dynamometer/底盘测功机 ☐ Play detector/游隙仪 ☐ Emission analyzer/尾气分析仪
☐ Motorcycle tester/摩托车检测线 ☐ Speedometer/车速表 ☐ PDA/外检辅助设备
☐ Dimension scanner/外形仪 ☐ Mobile testlane/移动式检测线 ☐ Speedometer/车速台
☐ Free roller/自由滚筒 ☐ Sound meter/声级计 ☐ Opacimeter/照度计
☐ Wheel load tester/称重台 ☐ Other(please specify)/其他 (请注明): _____

SITE INFORMATION/场地信息

Location of control room/控制室位置

- ☐ In the workshop/车间内 ☐ Out of the workshop/车间外 _____ mm

Size of test area/检测场地尺寸: L×W×H/长×宽×高 _____ mm

Size of workshop/检测车间尺寸: L×W×H/长×宽×高 _____ mm

Voltage frequency/电压频率(HZ): ☐ 50 HZ ☐ 60 HZ

Voltage standard/电压标准: _____

Power supply/供电: _____ Air supply/供气: _____ Drainage/排水: _____

Ventilation/通风: _____ Light intensity/光源: _____

TECHNICAL REQUIREMENT/技术要求

Customized language/语言要求: _____ Realtime language hints/显示提示: _____

Technical requirement/技术要求: _____ Interlinked equipment/联动设备: _____

Special equipment/特殊设备: _____

Additional requirement about goods package, transport, install and commissioning, training, spare parts maintenance and repair/货物包装、运输、安装、施工、培训、备件和维修等其它要求: _____

Name or description of document	Tick if you are including this document	✓
Inspection technical standard / 检测技术标准	<input type="checkbox"/>	
Requirement for equipment/设备要求	<input type="checkbox"/>	
Judgement standard/检测判断标准	<input type="checkbox"/>	
Report format/报告格式	<input type="checkbox"/>	
Visual check items/外观项目	<input type="checkbox"/>	
Vehicle information input/车辆信息录入	<input type="checkbox"/>	
Other requirement/其它特殊要求	<input type="checkbox"/>	
Homologation/认证	<input type="checkbox"/>	
Communication protocol/通讯协议	<input type="checkbox"/>	

Analyzing the **Key elements**:

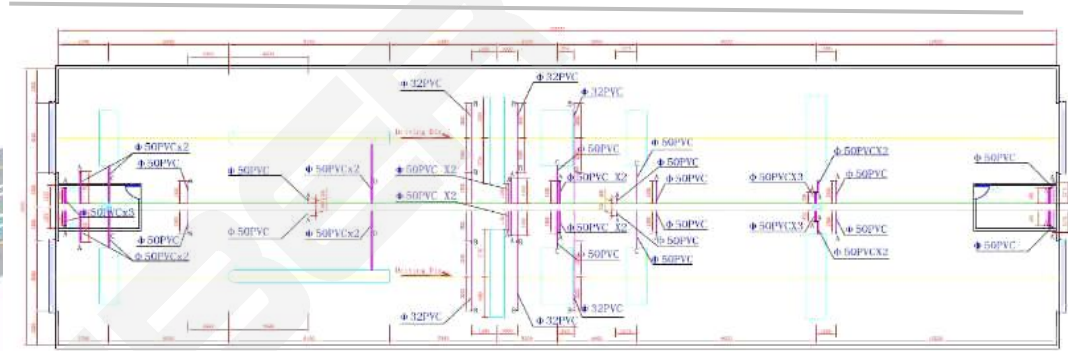
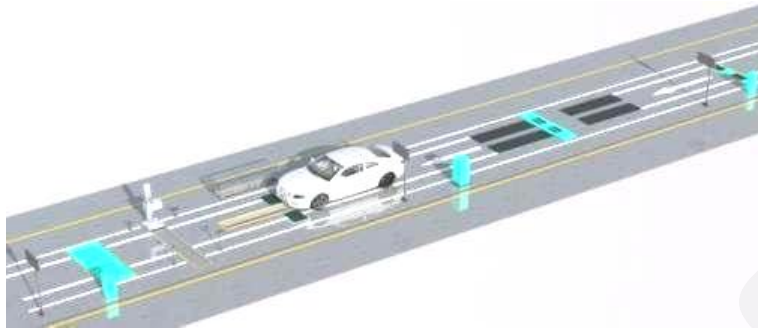
Requirement of equipment

Dimension of Testlane

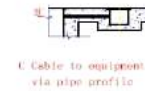
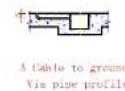
Inspection capacity

Service Step 2 : Layout & Operation Procedure

Multiple Work-position Automatic Test lane layout



Profile NOTE:



PC Tolling,
Login &
Apply test

Test lane,
1st Work
Station

2nd WS of
Test lane

3rd WS of
Test lane

Test finish

Back to
Business hall

Result & Data
management

Service Step 3 : Production & Shipment



Production & QC



Export Packaging



Shipment Loading

Service Step 5: Customers Training



A light blue world map serves as the background. Overlaid on the map is a network of white lines connecting various circular nodes, some of which are highlighted with a yellow glow. The nodes are distributed across the continents, suggesting a global network or connectivity theme.

For more information, please visit:

www.cosber.com

**Thank you for your
cooperation!**