



PTI PRODUCT LIST

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CONTENT

01 AUTOMATIC TESTLANE

Motor Vehicle Inspection System-- CVIS	04
3-Workstations Heavy Duty Testlane Layout (A3)	08
3-Workstations LD & HD Combo.Testlane Layout (B3)	12
1 Stage Heavy Duty Testlane Layout (A1)	14
N in 1 Car Testlane Layout (C1)	18

02 SOFTWARE

Visual-check Wireless PDA Input Terminal	21
CVIS-CL Work-Station Equipment Control Software	23
CVIS-IIS Inspection Information Management Software	26
Brake tester stand-alone software	30

03 PTI EQUIPMENT

Full range of Roller Brake Tester	33
Cosber-Brake Tester For Car	35
Cosber-Brake Tester For Truck	37
Vehicle Suspension Tester	43
Vehicle Sideslip Tester	44
Vehicle Speedometer Tester	45
Vehicle Wheel Load Tester	46
Wheel Play Detector	47
Chassis Dynamometer	48
Motorcycle Chassis Dyno	49
Automatic Headlight Tester	50
Manual Headlight Tester	51
Exhaust Gas Analyser	52
Smoke Opacimeter	53
Vehicle Dimension Scanning System	54
In Used Electric Vehicle Inspection Solutions	56
2&3 Wheels Motorcycle Testlane	58
Chassis Scanning System	59

01

AUTOMATIC TESTLANE



COSBER's Motor Vehicle Inspection System -- CVIS

Cosber is a leading manufacturer of vehicle tester equipment in the world. Along with new age of Digitization and IT Technology in vehicle inspection industry, COSBER has developed a new generation of control and management system (called CVIS) to modernize and simplify the operation of vehicle inspection, and become a Benchmark system for the PTI solutions provider.



The Aim of CVIS system bringing to Customer



EFFICIENCY

Improving Vehicle Inspection with a fully automated operation system by computerized



TRANSPARENCY

A complete overview of PTI operations with Database networking technology



FLEXIBILITY

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

We have full experiences and study in industrial dairy operation, so we offer the CVIS system to take care the concerns of following customers



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

COSBER is working in the middle of Vehicle Inspection Industry



Motor Vehicle Inspection Public Scheme



CVIS



Functional Operations for Inspection Industry

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

COSBER CVIS IT Connection



PTI Process Steps



Functional Features

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 2. Left / right brake balance 3. Wheel resistance 4. Total brake rate 5. Wheel brake force 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

Plenty of countries witness our PTI solution



New Zealand



Brunei



Indonesia



Iran



UAE



Cambodia



Turkey



Ghana

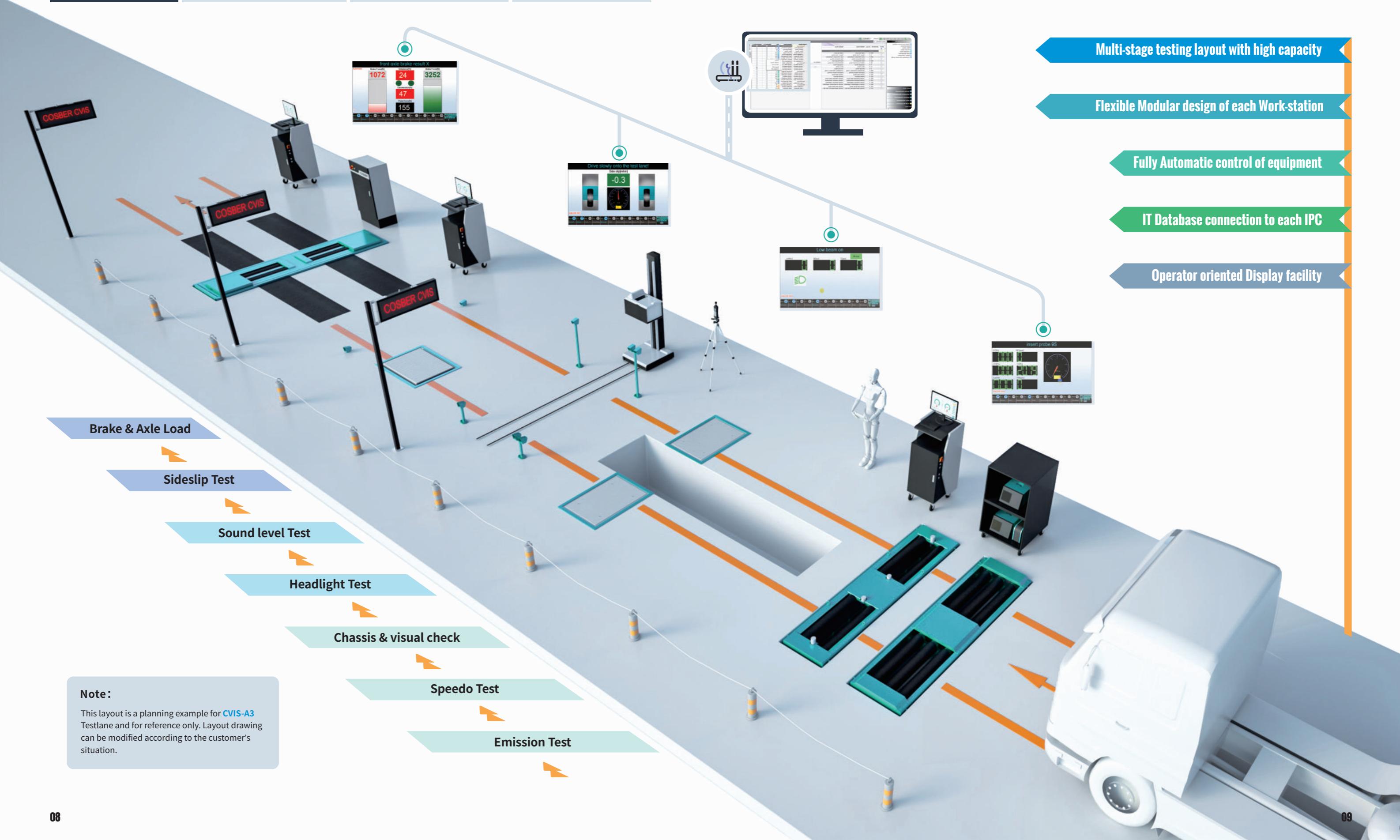
3-Workstations Heavy Duty Testlane Layout (A3)

A: HD Testlane

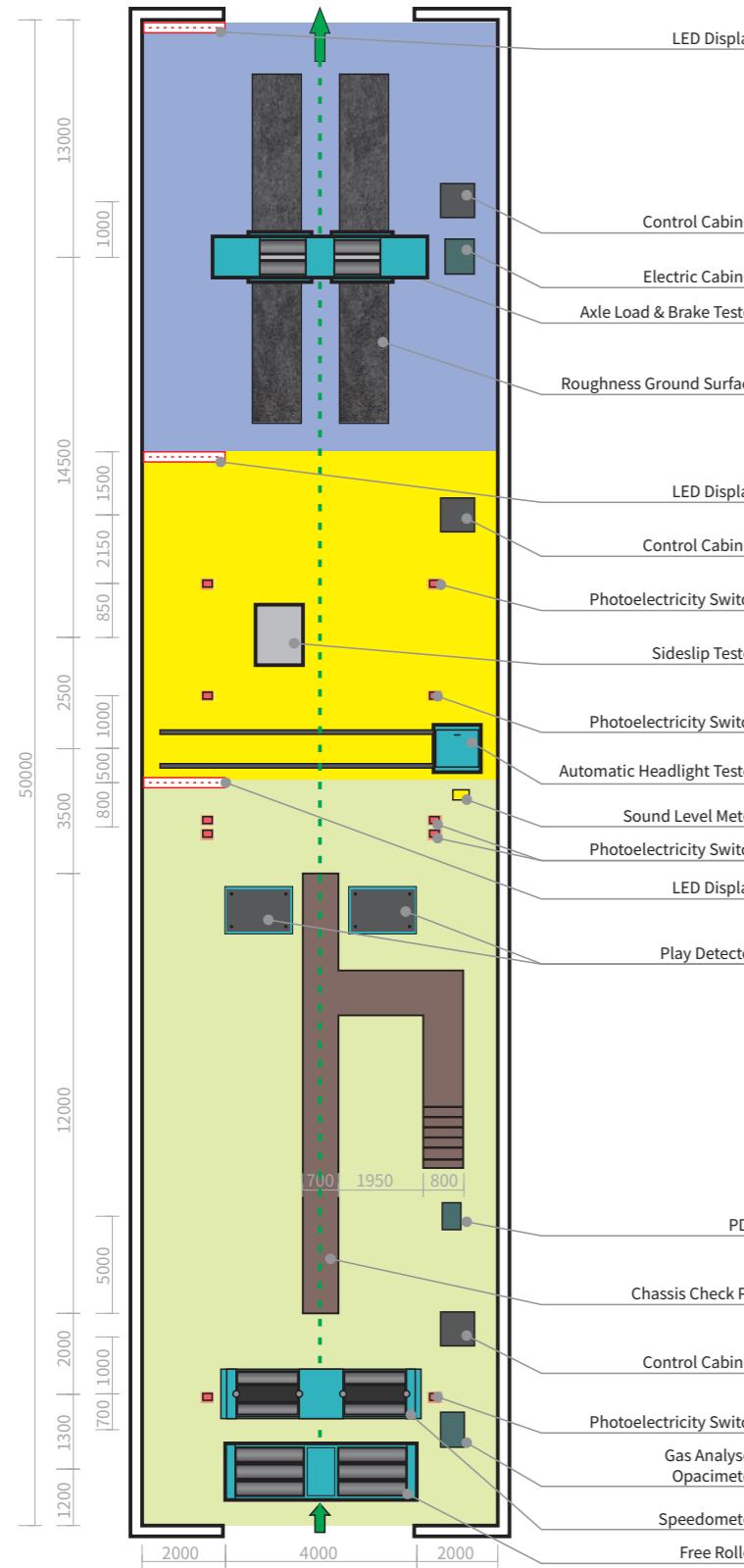
B: LD &HD Combo.lane

C: Light Duty Testlane

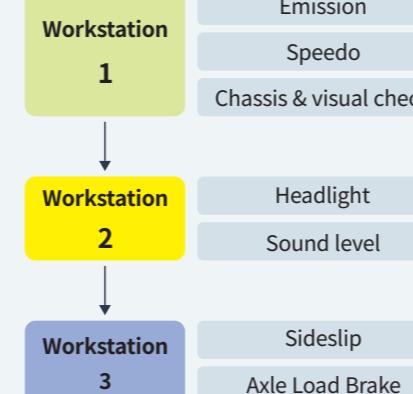
M: Motorcycle Lane



3-Workstations Heavy Duty Testlane Layout (A3)



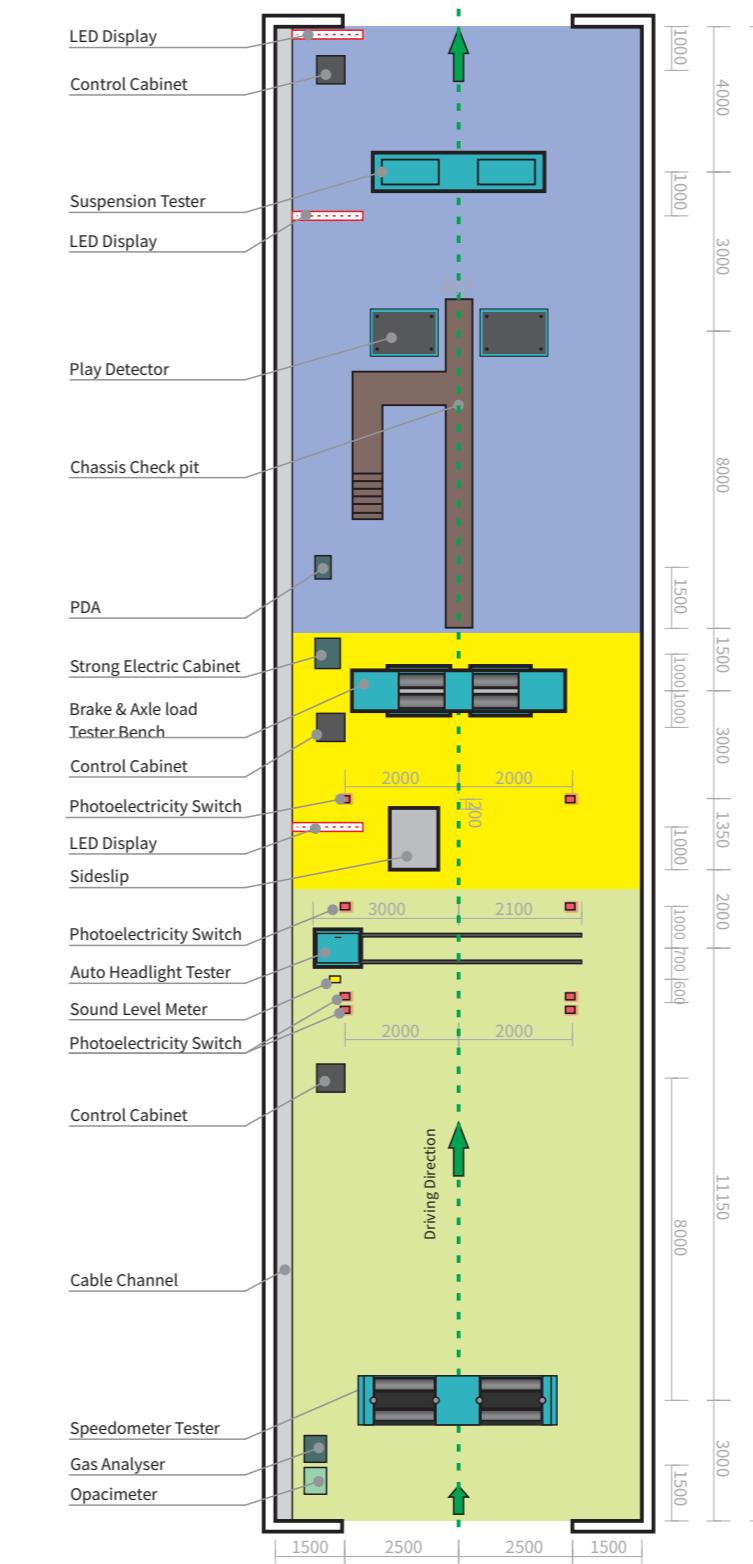
The process is briefly described as follows



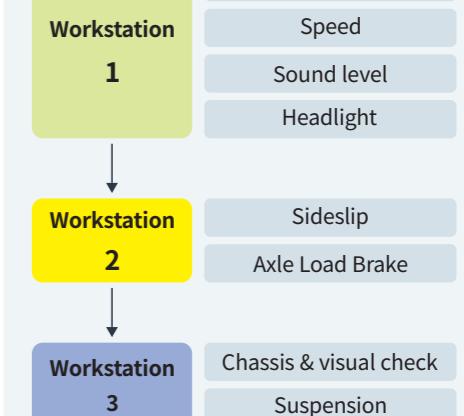
Note:

This layout is a planning example for **CVIS-A3** Testlane and for reference only. Layout drawing can be modified according to the customer's situation.

3-Workstations LD & HD Combo. Testlane Layout (B3)



The process is briefly described as follows



Note:

This layout is a planning example for **CVIS-B3** Testlane and for reference only. Layout drawing can be modified according to the customer's situation.

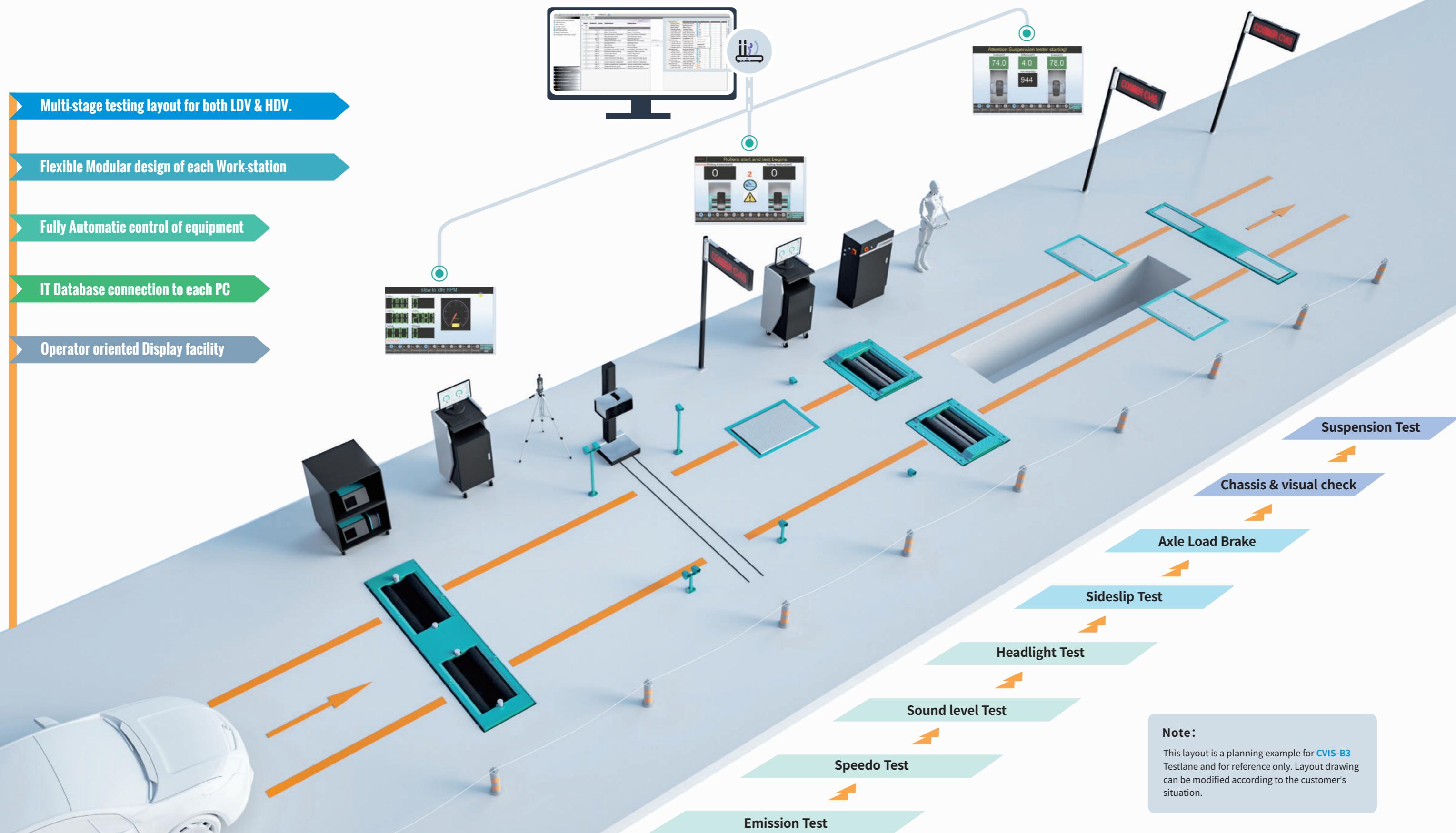
3-Workstations Light Duty & Heavy Duty Combo. Testlane Layout (B3)

A: HD Testlane

B: LD &HD Combo.lane

C: Light Duty Testlane

M: Motorcycle Lane

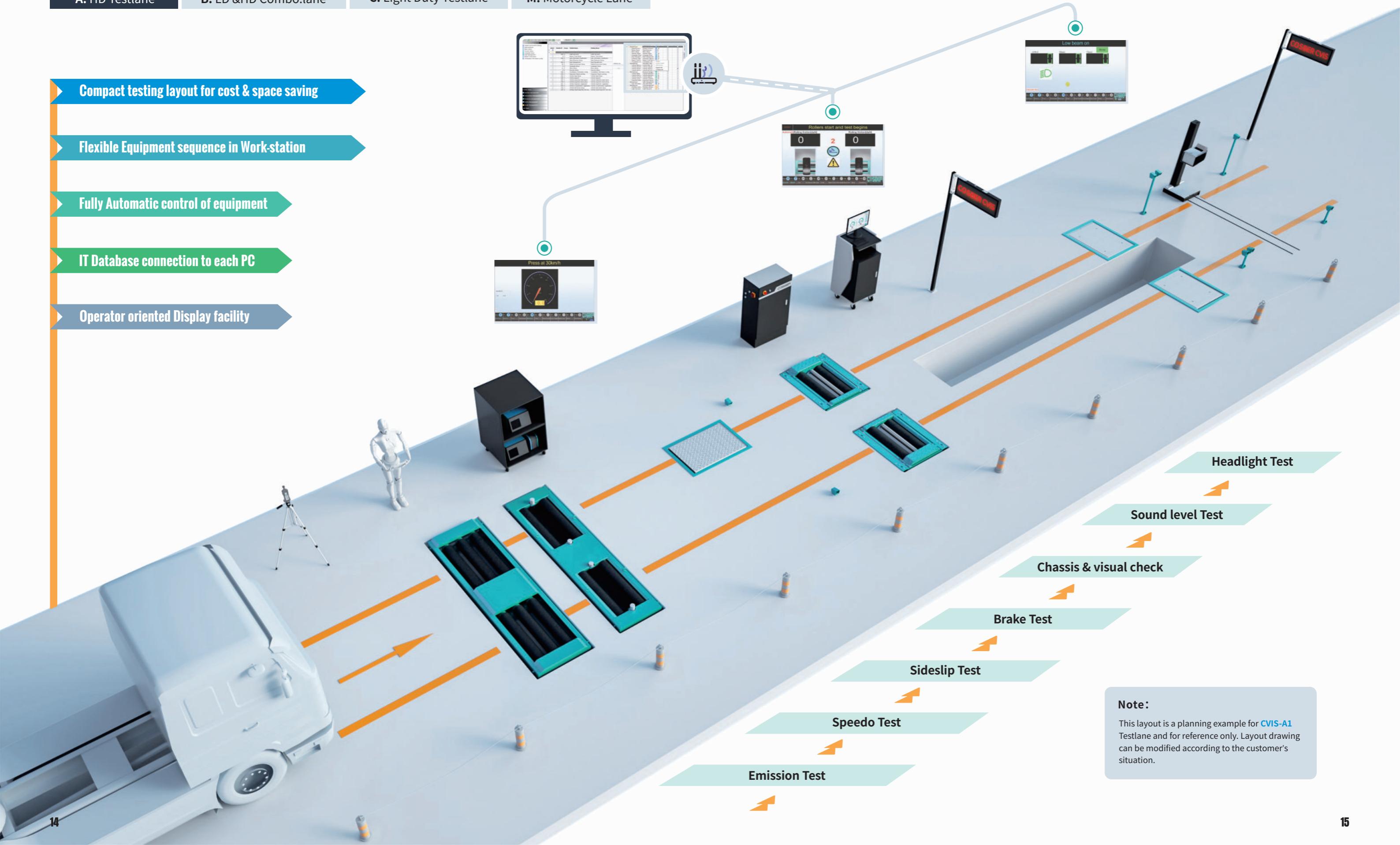


Note:

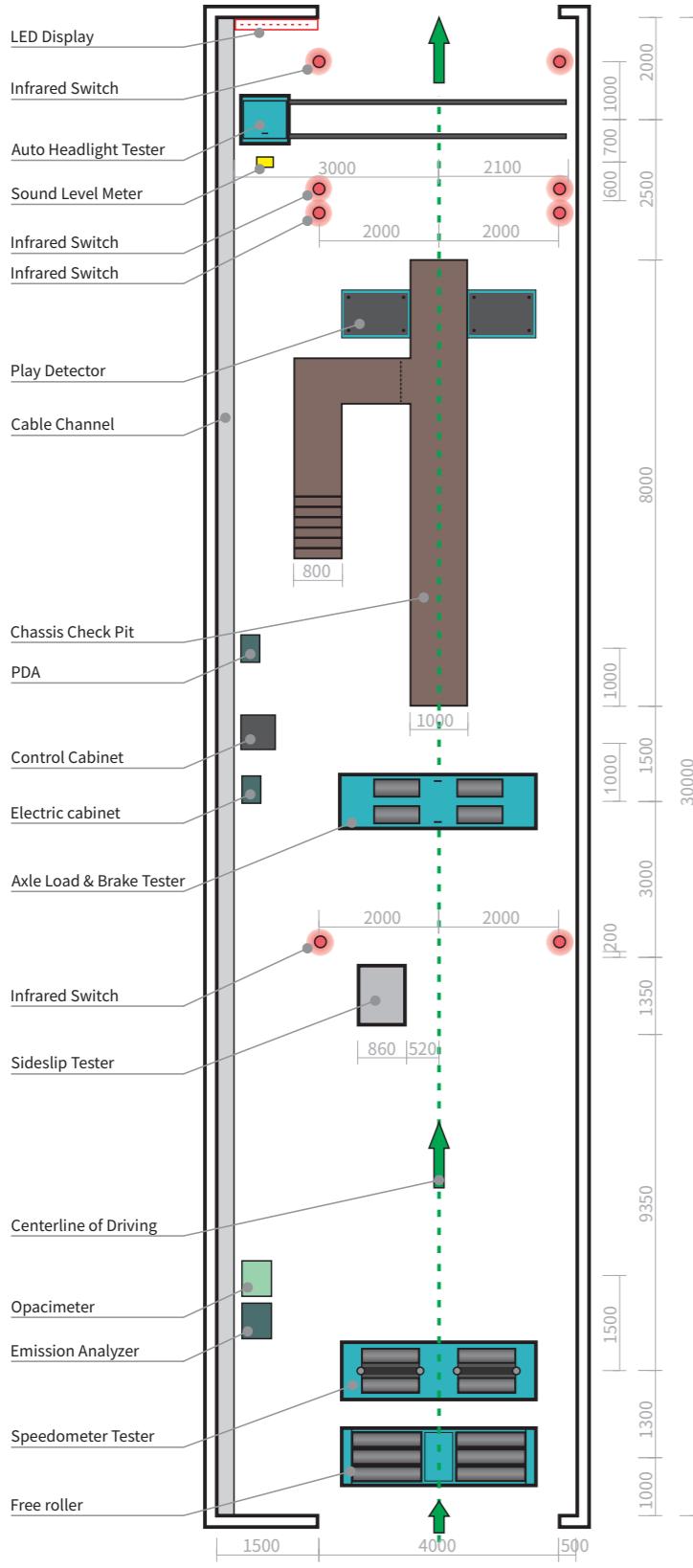
This layout is a planning example for **CVIS-B3** Testlane and for reference only. Layout drawing can be modified according to the customer's situation.

1 Stage Heavy Duty Testlane Layout (A1)

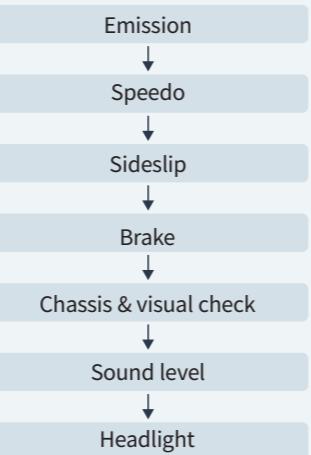
A: HD Testlane B: LD &HD Combo.lane C: Light Duty Testlane M: Motorcycle Lane



1 Stage Heavy Duty Testlane Layout (A1)



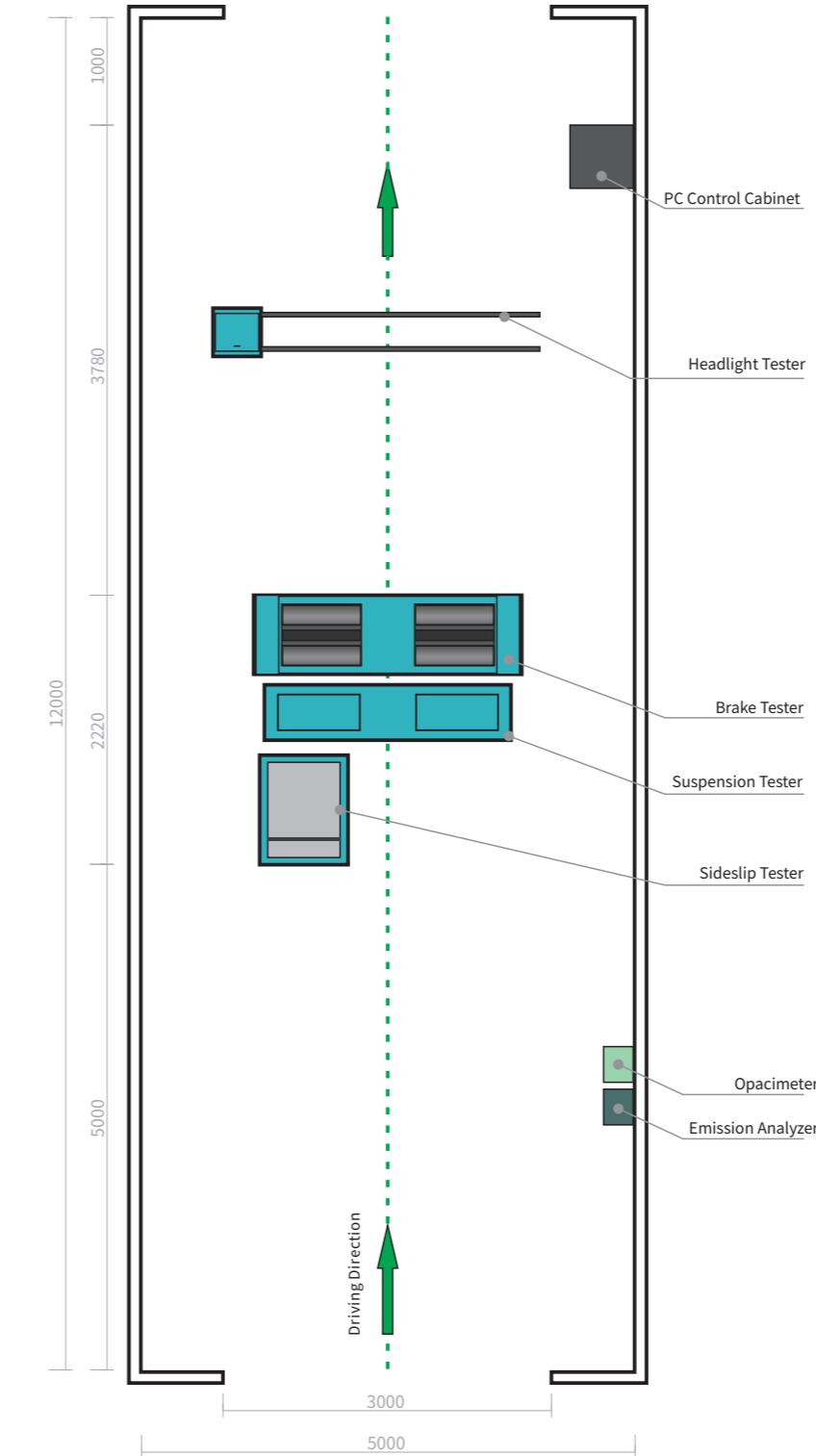
The process is briefly described as follows



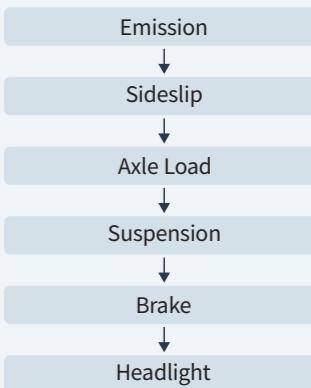
Note:

This layout is a planning example for **CVIS-A1** Testlane and for reference only. Layout drawing can be modified according to the customer's situation.

N in 1 Car Testlane Layout (C1)



The process is briefly described as follows



Note:

This layout is a planning example for **CVIS-C1** Testlane and for reference only. Layout drawing can be modified according to the customer's situation.

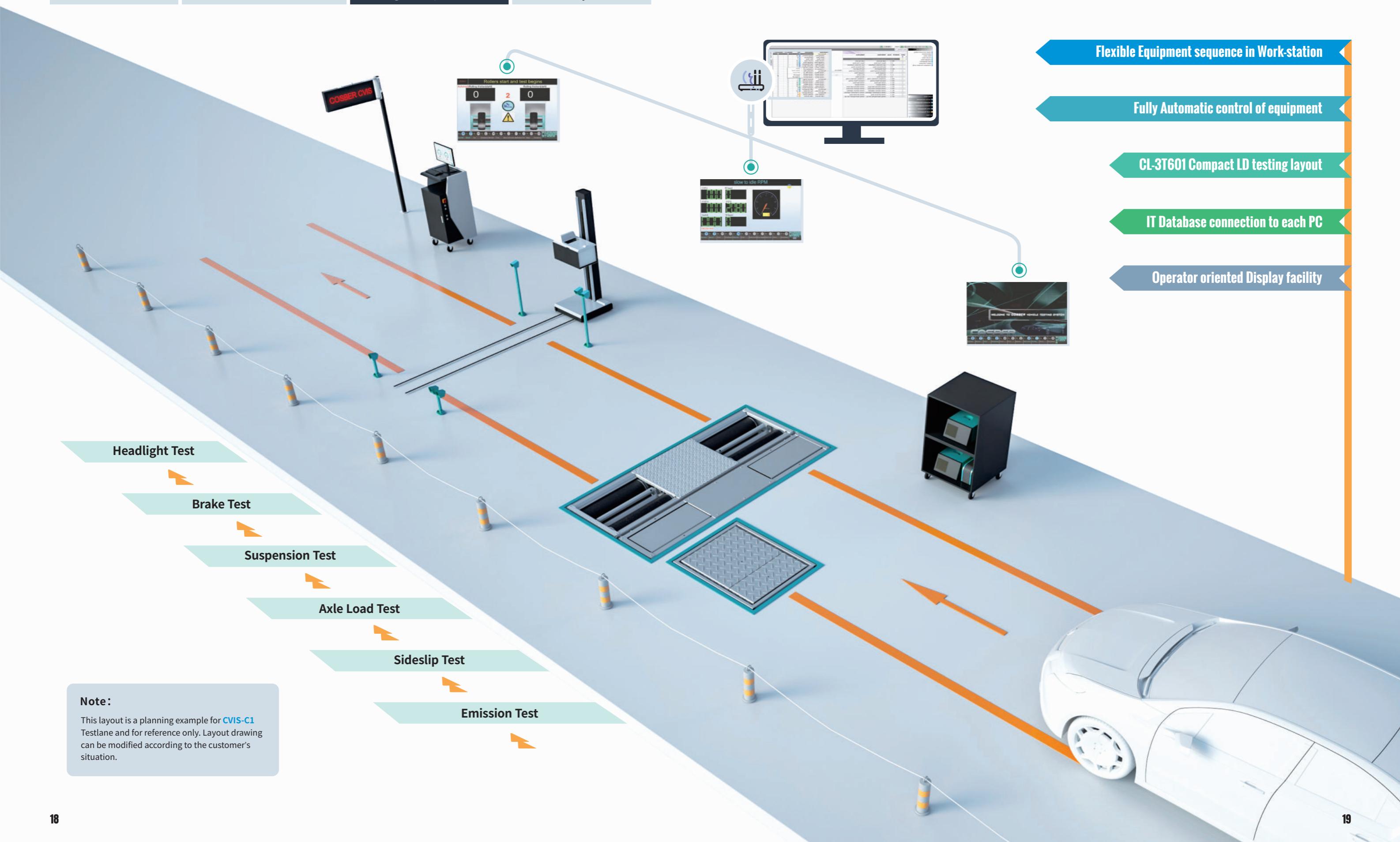
N in 1 Car Testlane Layout (C1)

A: HD Testlane

B: LD &HD Combo.lane

C: Light Duty Testlane

M: Motorcycle Lane



02

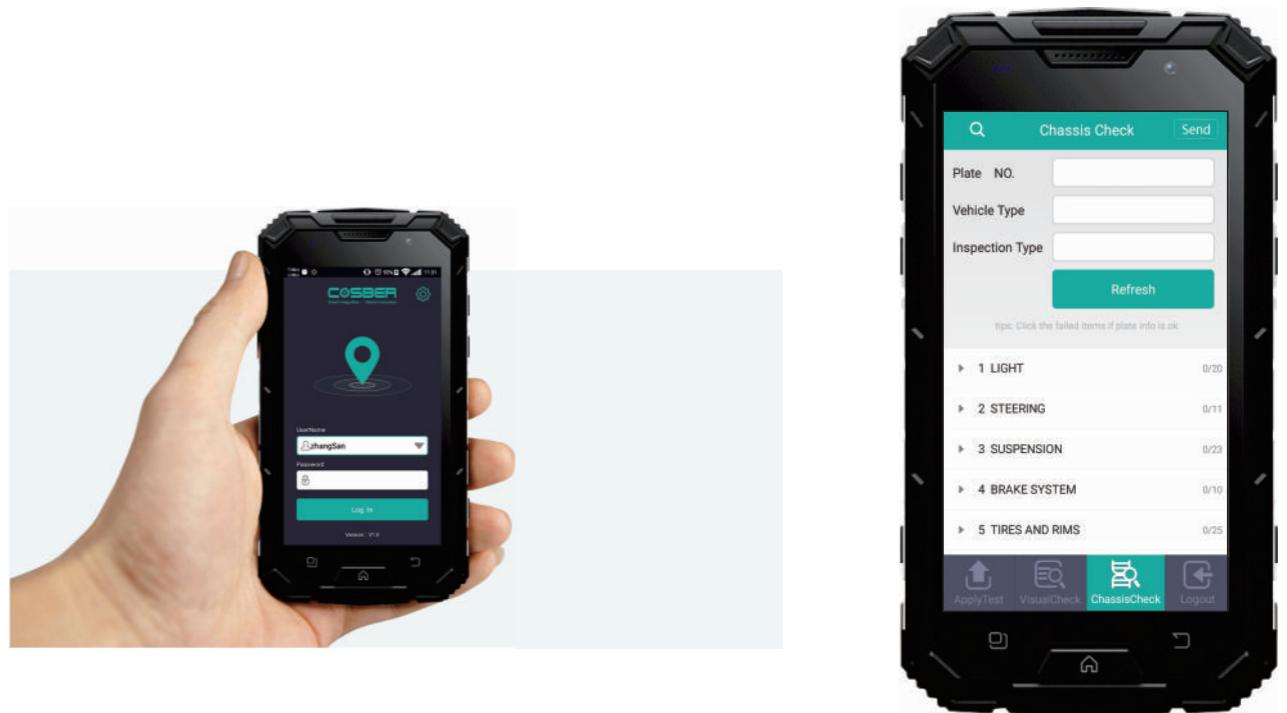
SOFTWARE



Visual-check Wireless PDA Input Terminal

Overview

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) .

Task List

Plate NO. Search by license plate number

Plate Type Select license plate type

Initial Test

tips: Enter the license plate information,easy to search and select specific vehicles

Initial Test **Re-check**

Oversize vehicle KAU-3882

MiniCar KAU-2569

MiniCar KAU-7569

Private FHT-1105

tips: Please click on the selected vehicle,select and send the items to be inspected

ApplyTest **VisualCheck** **ChassisCheck** **Logout**

Visual Check

Plate NO. Vehicle Type Inspection Type

Refresh

tips: Click the failed items if plate info is ok

1 LIGHT 0/28
2 STEERING 0/11
3 SUSPENSION 0/23
4 BRAKE SYSTEM 0/10
5 TIRES AND RIMS 0/25

Visual Check

Plate NO. Vehicle Type Inspection Type

Refresh

tips: Click the failed items if plate info is ok

1 LIGHT 0/28
2 STEERING 0/11
3 SUSPENSION 0/23
4 BRAKE SYSTEM 0/10
5 TIRES AND RIMS 0/25

Chassis Check

Send Initial Items

Plate NO. Code

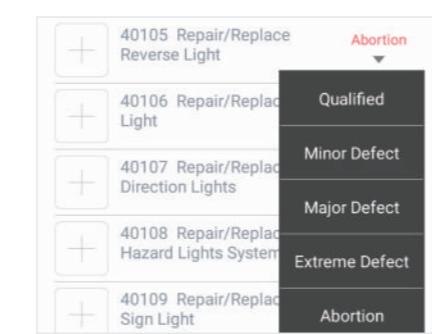
Plate Type Inspection Times

Vehicle Info

Plate Type:
Chassis Type:
Aisle No: Handbrake Position:
Oil Type:

Inspection Items

OutCheck1 OutCheck2
 Emission test Sideslip
 Front brake Middle brake



Select and send the test item

Test results

COSBER's CVIS Motor Vehicle Inspection System consists of 2 Main parts of software:

1) Work-Station equipment control system CVIS-CL : this control software is installed on the Industrial Computer(IPC) on the stage and communicates with the equipment's CMB (Main Control board wiht Processor) through Com Port or USB, and the CMB controls and manages the equipment of Testline through Analog & Digital Signal to execution unit. The CVIS-CL software is able to control the equipment independently to operate and carry out the calibration of equipment. When LAN connected with others IPC and Main control PC, it is able complete the steam-line work tasks in the Inspection center.

2) Inspection Information Management System CVIS-IIS: a database connected by IP network between the computer of the management system and the IPC of equipment (WorkStation), which completes the main tasks of inspection information management: Vehicle information Login, Vehicle Scheduling, test task of Operation, Data management, Report printing, System management and setting, etc.



CVIS-CL Work-Station equipment control system interface

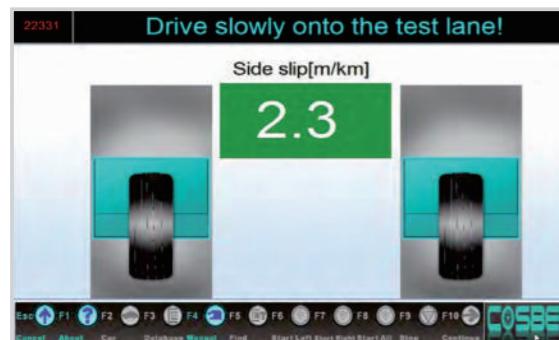
Motor Vehicles Inspection Information System				
System environment parameter setting				
Group	Variable name	Variable	Description	Last modified User
-	group		Application scenario number	ADMIN
DongLe_Sheng	0	Open pre-inspection	ADMIN	2018/9/12 9:52:26
Region	11	Unit conversion code (must be 12 bits)	ADMIN	2018/9/12 9:52:26
InterfandBIO	781200090305170400158195F0E...	Verify the intelligent terminal interface...	ADMIN	2018/9/12 9:52:26
InterfandDIO	781200090305170400158195F0E...	Verify video surveillance system interface...	ADMIN	2018/9/12 9:52:26
7Y30B		Test inspection agency	ADMIN	2018/9/12 9:52:26
7YLSH_Pre	BA081111	Inspection serial number prefix	ADMIN	2021/11/18 15:02:39
LocalReportPath	D:\abavieh\Local\report	Maximum number of logs	ADMIN	2018/9/12 9:52:26
LogonMaxCount	301	License plate number	ADMIN	2021/11/18 15:02:31
LSH_Pre	BA07	Inspection serial number prefix	ADMIN	2018/9/12 9:52:26
Plate_Fmt	N	Independent network networking mode	ADMIN	2018/9/12 9:52:26
WebServiceAddress	http://127.0.1.8056/Info.aspx	Vehicle service address	ADMIN	2018/9/12 9:52:26
WebServiceAddress	http://192.168.81.188:8141/info...	Local Application Service Address 1	ADMIN	2022/6/2 14:26:59
WebServiceAddress2	http://192.168.3.17:8090/info.aspx	Local Application Service Address 2	ADMIN	2021/3/1 15:46:52
rtb	18	System category	ADMIN	2018/9/12 9:52:26
Graphic_Plan				
AuthServerSignature	Tester	Authorized signature	ADMIN	2018/9/12 9:52:26
InterfaceSNI	781D00090305170400158195F0E...	Inspection service information system...	ADMIN	2018/9/12 9:52:26
JY30B	430000039	Inspection agency code	ADMIN	2018/9/12 9:52:26

CVIS-IIS Inspection Information Management System interface

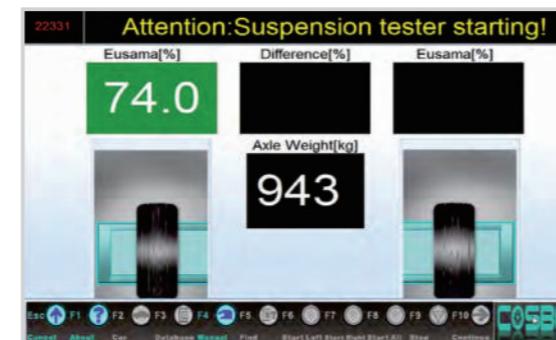
1) Work-Station equipment control system CVIS-CL

[Vehicle Definition]		[Customer Details]	
Veh.Reg.NO	22331	Surname	
VIN	-	Christian Name	
Veh.manufacture	-	Street/House num.	
Vehicle Model		Contact Person	
Mileage	0	Postcode/City	
GVW	0	Tel.1/Tel.2	
Registration Date	2/12/2009	Remarks	
Vehicle Type	<=9 Seat: [M1]		
Axle	2		
Parking Axle	2		
Fuel	Petrol		
Drive mode	2WD		
<input checked="" type="checkbox"/> Brake Axle 1 <input checked="" type="checkbox"/> Brake Axle 2 <input type="checkbox"/> Brake Axle 3 <input type="checkbox"/> Brake Axle 4		<input checked="" type="checkbox"/> Parking Brake <input checked="" type="checkbox"/> Suspension Axle 1 <input checked="" type="checkbox"/> Suspension Axle 2 <input type="checkbox"/> Appearance	
		Gas Analyzer Opacimeter Horn Speedometer	
		<input checked="" type="checkbox"/> Side Slip Axle 1 <input type="checkbox"/> Side Slip Axle 2 <input type="checkbox"/> Left Headlight <input type="checkbox"/> Right Headlight	
		<input type="checkbox"/> Noise Test	

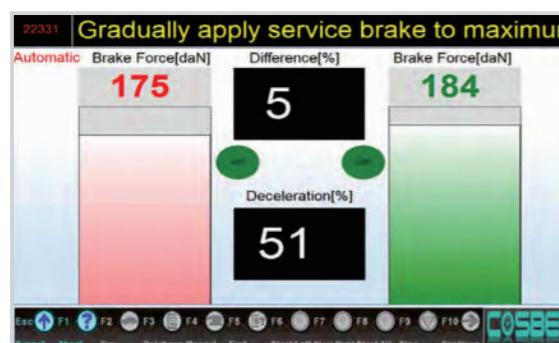
Enter the vehicle information of the vehicle to be tested



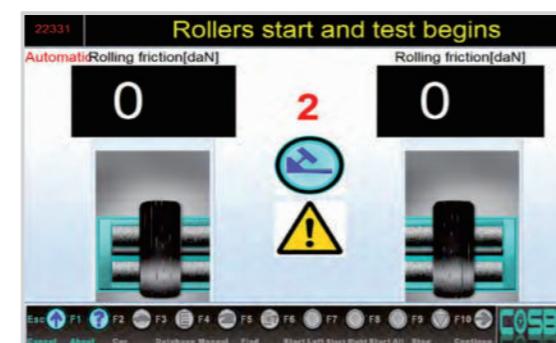
Sideslip test



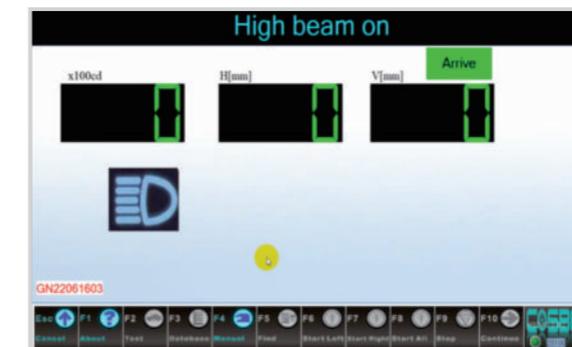
Suspension test



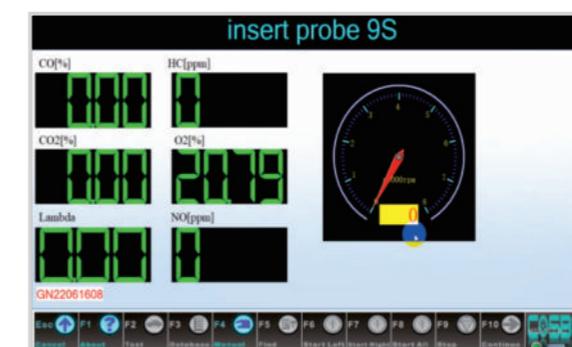
Front and rear wheel resistance and brake test



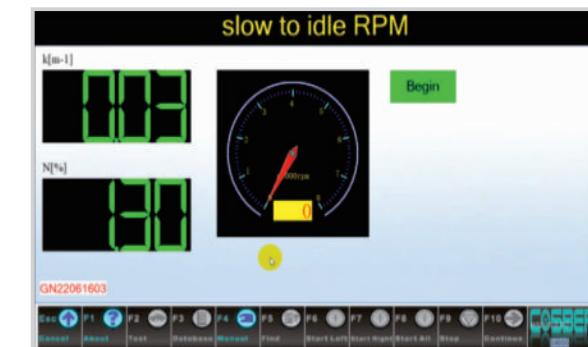
Parking force test



Headlight test interface



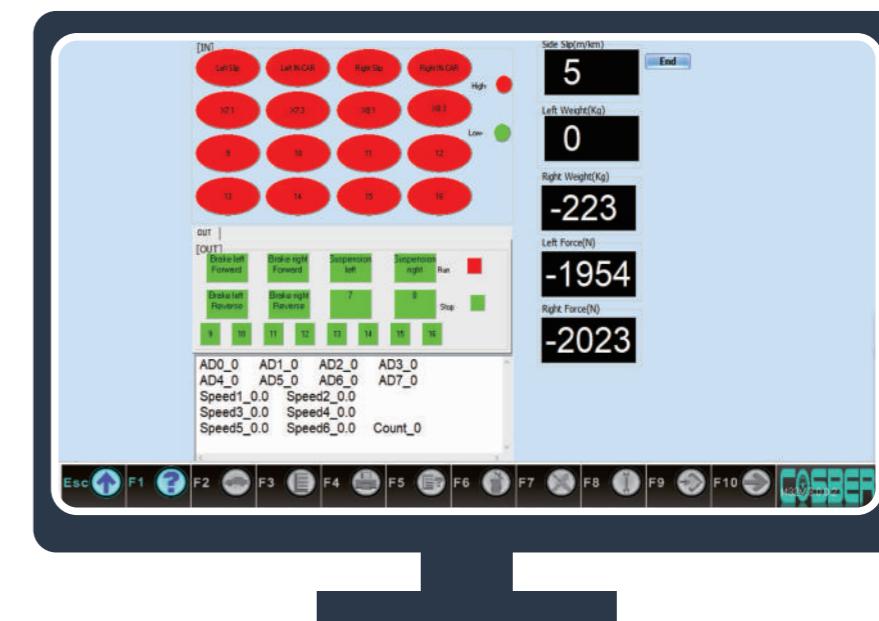
Gas Analyser test interface



Opacimeter interface



Speedometer test interface



CVIS-CL Signal diagnostic & Self-test

2) Inspection Information Management System CVIS-IIS

Overview

CVIS-IIS is a software system for Motor vehicle inspection business information management, its mainly realizes operation functions such as: Inspection data exchange processing, Process monitoring, Result processing and Report printing. This information system realizes vehicle appearance inspection (Visual check) by mobile intelligent terminal PDA, which is able to uploads inspection results and taking photos of key parts such as vehicle name plate ID to the information management system. Inspection process monitoring program is able to transmit operation video information to the whole CVIS system. The Inspection process control program is able to operate the equipment via CL equipment control software and obtain and store the test result data.

At the same time, the system also strictly manages the user rights of the use system, records the system login and operation security log in detail, and audits whether the system has potential security risks.

Benefits bring to PTI customers

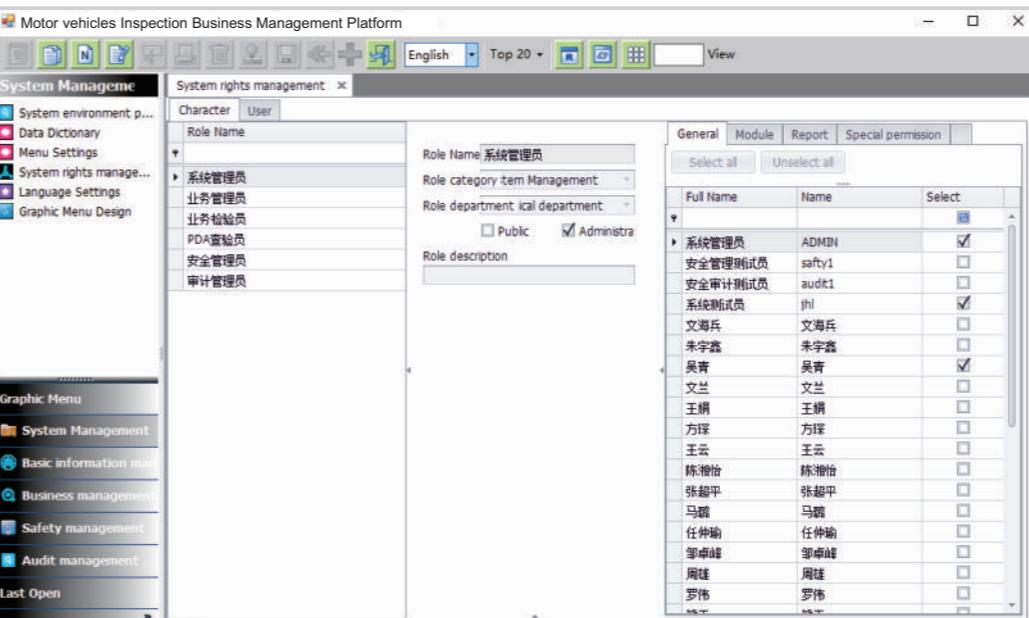
- ▶ One computer control for Multi-Equipment-Stages, even for Multi-Testlanes
- ▶ Fully automatic control process for each stage of testlane.
- ▶ Full-function database management and networking ability.
- ▶ One-stop management of Personnel/Equipment/Toll/Data & Images for PTI business.
- ▶ Accessible to the Cloud Database and Business Management of multiple test stations.
- ▶ Standardization of Inspection Business Management to achieve uniformity and efficiency.

Key features

Stand-alone Version	Cloud Net Version
Modular function design	Modular function design
Integrated one-computer control of multi-working stages	B/S system structure
Automatic process & Smart control	Modular design with extreme function modification ability
Set up of local Database or Server	Accessibility between local database and Cloud database
Good flexibility on working-stage layout	Uniform standard for every PTI stations connected

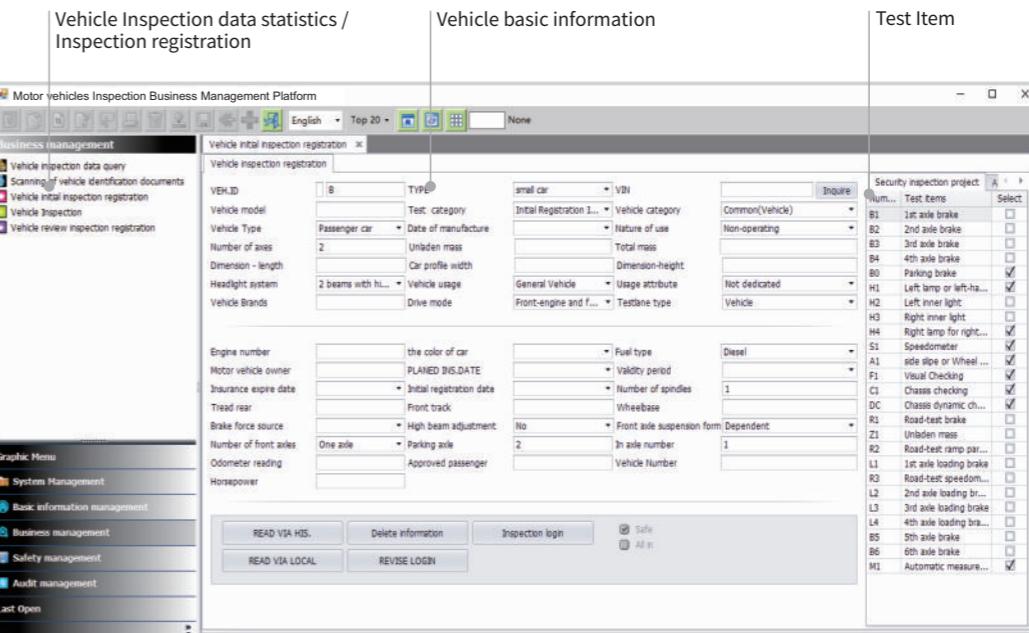
Key Functional Module

Functional Module	Stand-alone Version	Cloud Net Version
Admin. / User Management	Yes	Yes
Test Items Management	Yes	Yes
Operation Statistics Management	Yes	Yes
Report Format Management	Yes	Yes
Visual / Chassis Check Program	Yes	Yes
Inspection Standard Program	Yes	Yes
On-line Booking Management	No	Yes
Business Data Analysis	No	Yes
Toll Accounting Management	No	Yes
Photographic Management	No	Yes
CCTV Video Accessibility	No	Yes
Inspection Certificate Management	No	Yes



System management

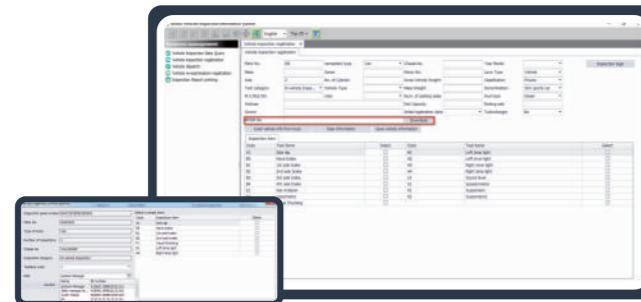
It mainly realizes the functions of operating environment parameter setting, user role management, user authority management, system menu setting, system data dictionary setting and so on.



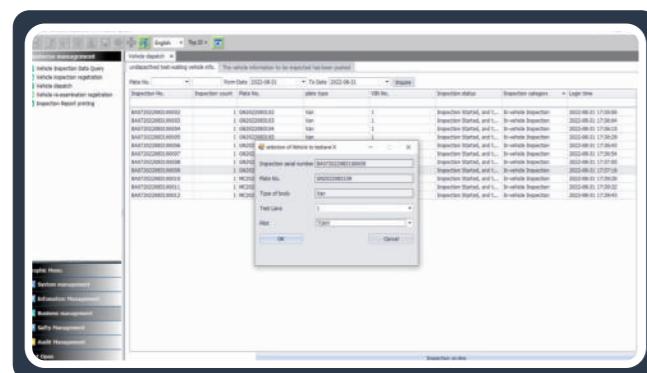
Business management

It mainly realizes the basic information management setting, inspection process control, inspection result upload processing, signature printing, statistical analysis and other business functions of the vehicle safety technical inspection information system for vehicle inspection.

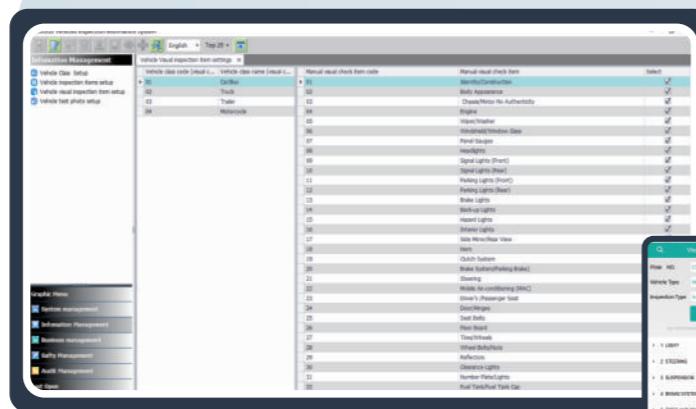
CVIS-IIS Inspection Operation (Business) program Interface



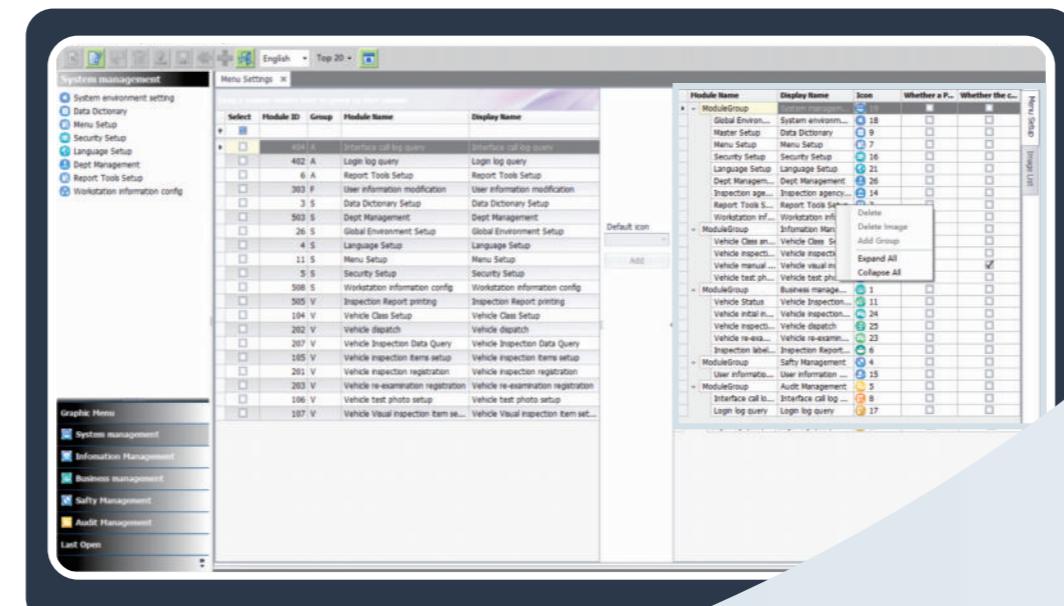
1) Vehicle Information Login interface



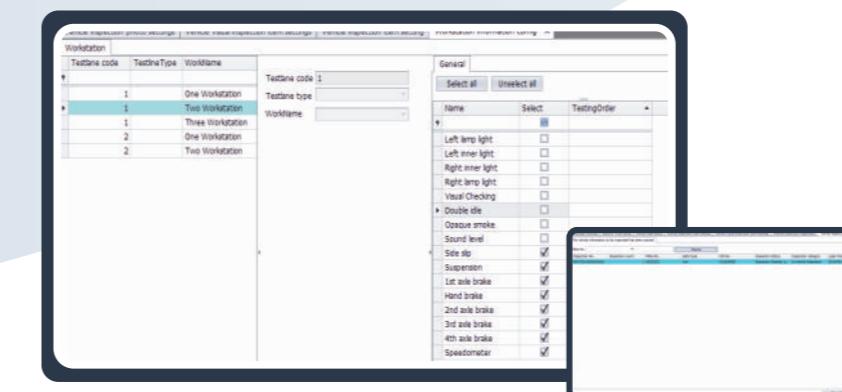
2) Vehicle task Ordering



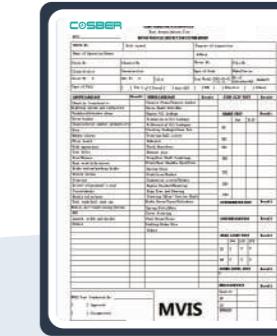
3) Visual Check and PDA



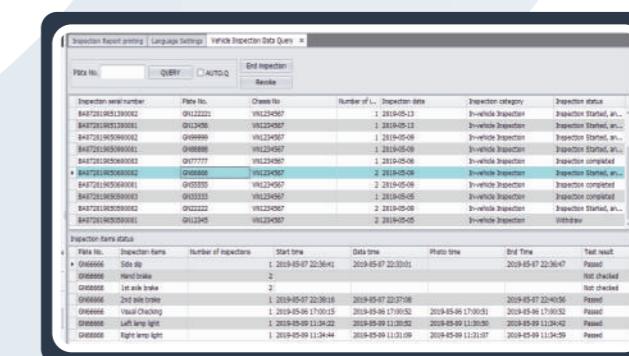
Inspection Operation (Business) program



4) WorkStation & Equipment operation control



6) Test report printing



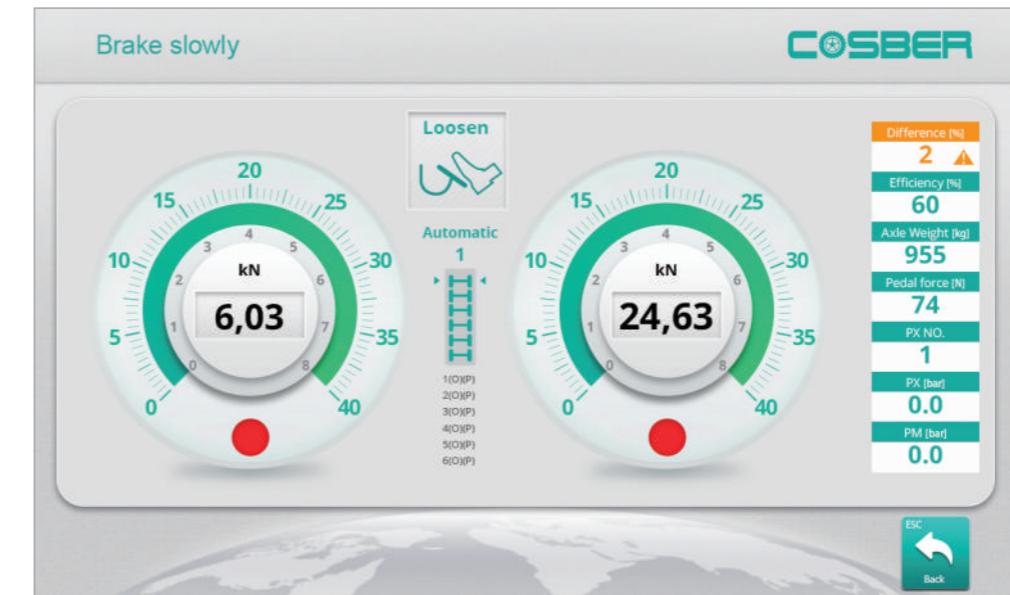
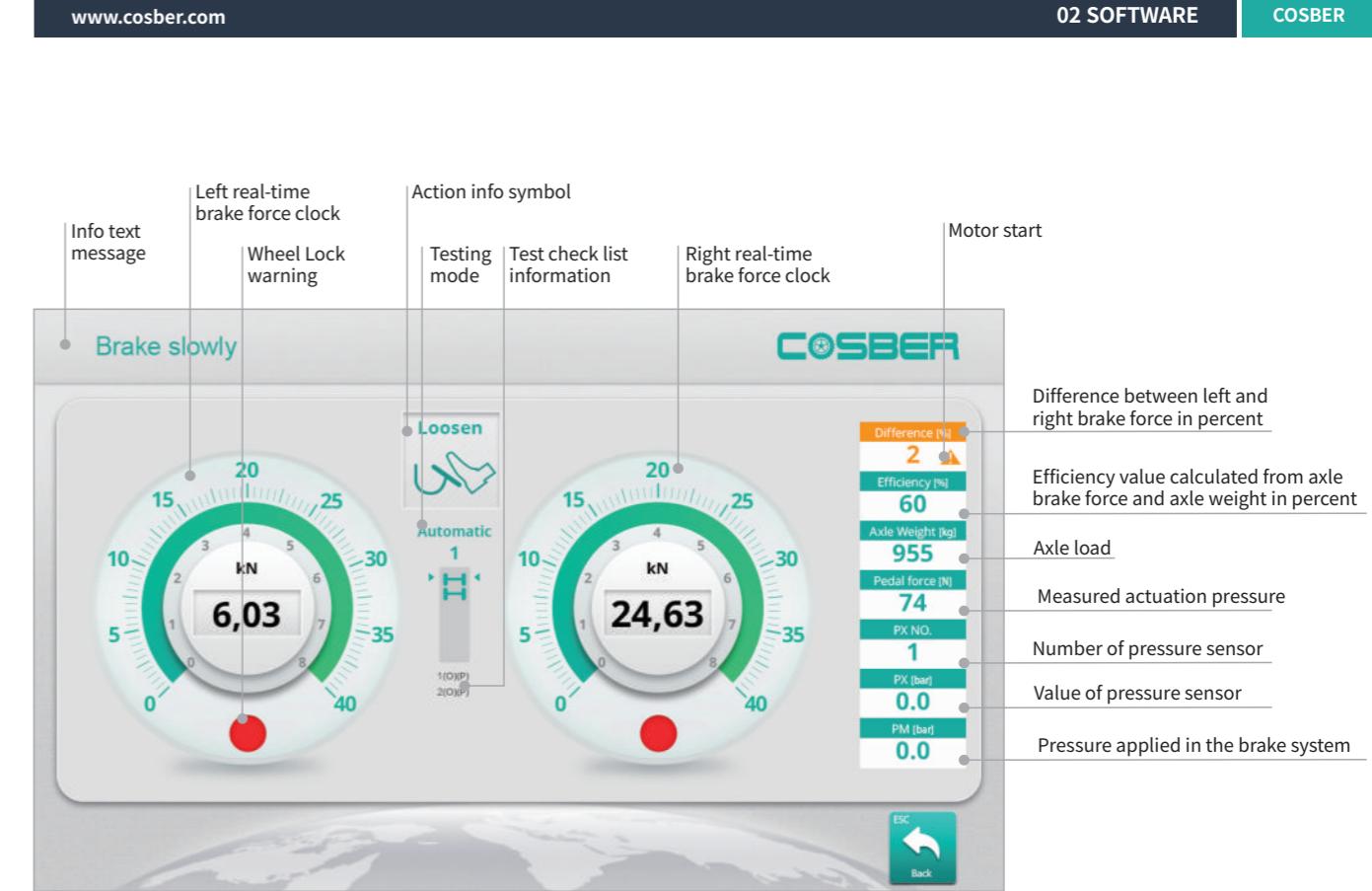
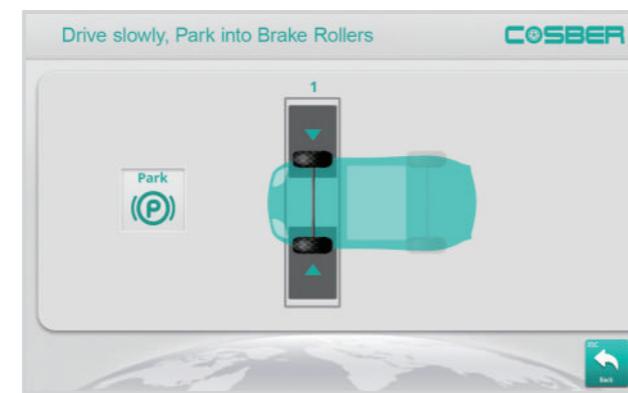
5) Inspection Result Data management

Brake tester stand-alone software



Vehicle information		COSBER	
Vehicle Customer			
Vehicle definition			
Register plate	VIN		
Manufacturer	Model		
Model	Mileage		
GVW [kg]	First registration date		
First registration date	Vehicle Type		
Axle count	Drive mode		
2WD	Operating mode		
Calculation pressure [bar] 8.5			
F2 Continue		F4 Back	

Input the vehicle information



03

PTI EQUIPMENT FOR MOTOR VEHICLE INSPECTION



Full range of Roller Brake Tester



Cosber has a complete series of different brake tester for Light vehicle & Heavy duty vehicle which follows the guidelines of car manufacturers and test organizations.

This modular range of products allows plenty of combinations to meet the customer demands and can be extended to a complete test lane.

Designed by German engineering, equipped with German motors and German sensors.

Accessories like 4WD, analog display, drive out support and radio remote control version are available.



Analog display with Swivel-arm



Remote control

Technical Data RBT for LD & HD

Item	C-BTC 2X	C-BTC 3X	KZZD-10K
Max. measure load	3 500 kg	3 500 kg	10 000kg
Measurement range	0~8 000N × 2	0~8 000N × 2	0~30000N x 2
Wheel diameter	400~800 mm	400~800 mm	> 600 mm, Pneu. lock-lift
Wheel tread	800~2 200 mm	800~2 500 mm	700 - 2900 mm
Roller Dimension	Φ205 x 700 mm	Φ205 x 850 mm	Φ245 mm x 1100mm
Coef. friction (dry/wet)	> 0.7 / 0.6	> 0.7 / 0.6	> 0.7 / 0.6
Motor power	3 kW / 4 kW×2	3 kW / 4 kW×2	11kw or 15kw x 2
Test Speed	5.1 km/h	5.1 km/h	2.5km/h
Dimensions (L × W × H)	2320 × 660 × 240 mm	2620 × 660 × 240 mm	4630×900×627 mm
Equipment weight (ca.)	> 430 kg	> 480 kg	> 1580 kg

Technical Data RBT of Truck

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 With Motor Lock
Dimensions (L × W × H)	3220 × 1040 × 686 mm	3490 × 1240 × 806 mm
Equipment weight (ca.)	> 1 500 kg	> 1 800 kg

Parts

CBT control cabinet



Lifting device control



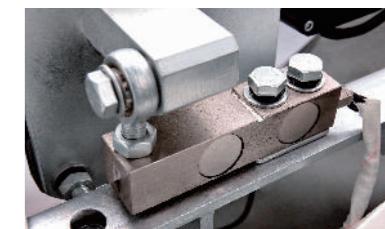
Calibration tools



Pit-frame

Cosber-Brake Tester For Car**Features**

- ▶ High practicality and efficiency
- ▶ Quick detection of all brake measurement data
- ▶ Guide information showed on the display
- ▶ Hot-dipped galvanized roller set frame
- ▶ Axle load 3,5t ~ 4,5t
- ▶ Test speed 5,1km/h
- ▶ Extendable to test lane
- ▶ Ground, column or wall mounted control box
- ▶ Column or swivel arm mounted analogue LED display (as option)
- ▶ Electromagnetic motor brake as drive out support (as option)
- ▶ 4 Wheel-Drive-Kit (as option)
- ▶ Roller cover plates (as option)
- ▶ Motorcycle cover plates (as option)
- ▶ Robust radio remote control (as option)



Analog Display

Swivel-arm and column mounting

**Control Cabinet & Accessories**

Remote Control



Wall mounting

Cosber - Brake Tester For Truck**Analog Display Technical parameters**

Dimensions (L×W×H)	830×200×610mm
Equipment weight	25 kg
Protection class	IP54
Braking force range	0 ~ 8000 N
Minimum braking force	100N
Side-slip displacement range	-20 mm ~ 20 mm
Minimum side-slip displacement	4 mm
Suspension absorption rate range	0 ~ 100%
Screen display range	16 characters, 1 line
Braking force display accuracy	1 N
Suspension absorption rate display accuracy	1 %

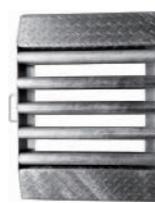
Control Cabinet Technical parameters

Dimensions (L×W×H)	600×570×240 mm
Equipment weight	20 kg
Power supply	AC 3-phase×400V + PE /50Hz AC 3-phase×230V +PE/60Hz (optional)
Rated current	400V - 12A 230V - 20A (optional)
Power cable requirements (provided by customer)	5×2.5mm (3P+N+PE)

Calibration Tool & Assist Free Roller Set (Portable)

Calibration device (option)

- ▶ Calibration tools (optional)
- ▶ Easy to operate
- ▶ High-precision calibration



Portable free rollers for 4WD car brake test

C-BTT Series For 13t And 18t Axle Load:

- ▶ Heavy duty structure body design
- ▶ Hydraulic load simulation
- ▶ Four wheel drive (4×4)
- ▶ With automatic gear motor lock function to facilitate the driving in and out of vehicles
- ▶ Two-speed operation mode with lifting load, adapt to different types of vehicle
- ▶ Mechanical components with hot-dip galvanization for protection against corrosion.



C-BTT 5x/6x/7x/8x

Analog Display

Swivel-arm and column mounting

**Control Box & Accessories**

Remote Control



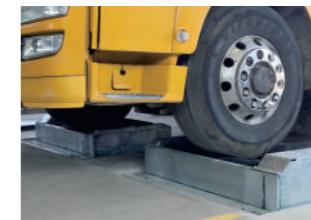
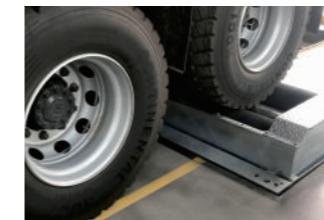
Air pressure sensors



Pedal force sensor

Hydraulic Load Simulation

- Hydraulic lifting function with lifting height of 200mm and improved testing of multi-axis vehicle
- Controlled by radio remote control
- Suitable for almost all trucks and trailers

**Indicator**

- Brake force
- Digital difference displayed in % at LED-display
- Operating mode: Manual, Automatic, 4 x 4
- Road adhesion in % for suspension tester
- User guidance
- Difference for side slip tester in m/km
- Weight in kg (if weight sensors included)
- Status lights for different operating modes

Analog Display Technical parameters		Control Box Technical parameters	
Dimensions (L × W × H)	830 × 200 × 610 mm	Dimensions (L × W × H)	1050 × 600 × 360 mm
Equipment weight	25 kg	Equipment weight	60 kg
Protection class	IP54	Power supply	AC 3-phase × 400V + PE /50Hz
Braking force range	0 ~ 40000 N		AC 3-phase × 230V + PE/60Hz (optional)
Minimum braking force	100N	Rated current	400V - 12A 230V - 20A (optional)
Side-slip displacement range	-20 mm ~ 20 mm	Power cable requirements	5 × 2.5 mm (3P + N + PE)
Minimum side-slip displacement	4 mm		
Screen display range	16 characters, 1 line		
Braking force display accuracy	1 N		

Calibration Tool

- Easy to operate
- High-precision calibration
- Fast measurement
- Calibration case (optional)

Technical Parameters

Equipment model	C-BTT 5X/6X	C-BTT 7X/8X
Maximum drive over load	13000 kg	18000 kg
Measurement range	0 ~ 40000 N	0 ~ 40000 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	1000 mm	1000 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.)	> 1500 kg	> 1700 kg

Lifting Device (Control Box)

- Remote control for hydraulic load simulation
- Control box for hydraulic load simulation

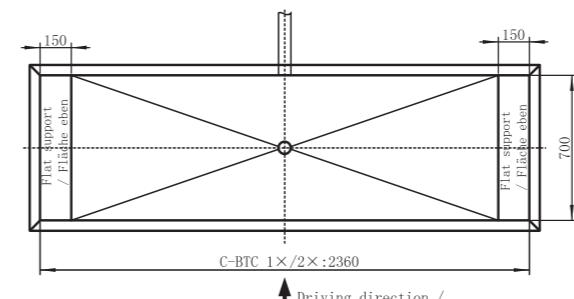
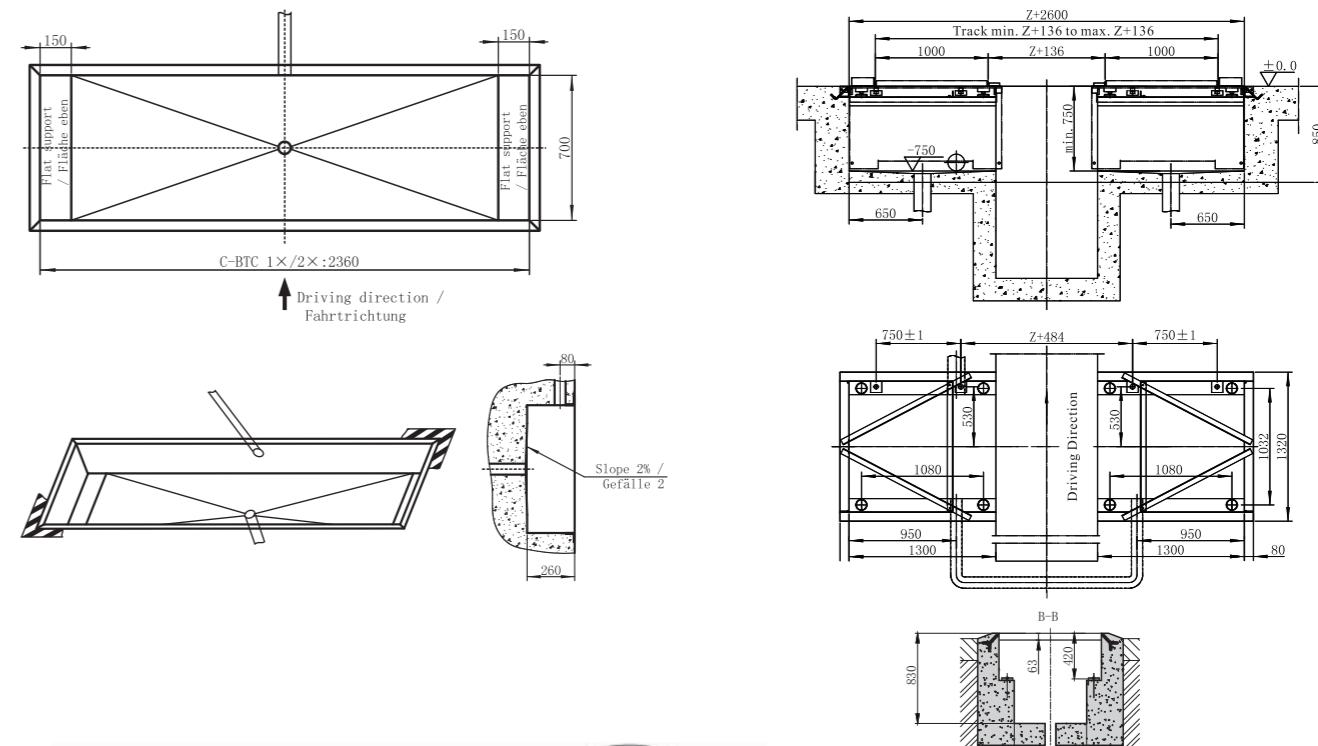
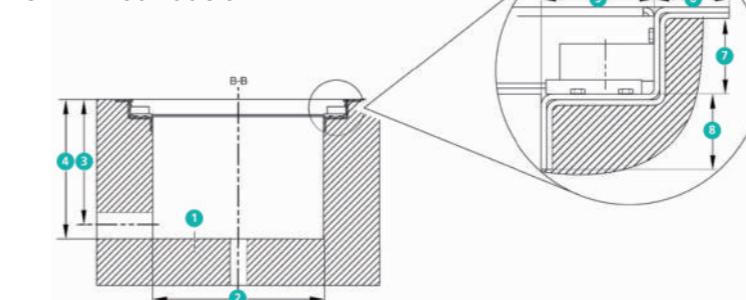


Configuration

Equipment	Type	Standard		Option	
		BTT 5X/6X	BTT 7X/8X	BTT 5X/6X	BTT 7X/8X
Brake Tester	Roller type	Corundum		Spike	
	Roller length	1000 mm		1000 mm	
	Weight system	-		8 Weight sensors	
	Motor power	2 × 9/9 kW	2 × 13/17 kW	2 × 11/11 kW	2 × 15/15 kW
	Frame surface	Hot-dip galvanized		Spray painted (Green)	
	Speed sensor	Yes		-	
	Lifting function	-		Yes	
	Lifting height	0 ~ 200 mm		0 ~ 200 mm	
	Lifting load	> 4000 kg		> 4000 kg	
Control Cabinet	Drive type	Two-wheel drive mode		Four-wheel drive mode	
	Drive out support	Electroautomatic		Electro-magnetic Brake	
	Asa communication	Yes		-	
	Supply voltage	Three-phase AC 400V/50Hz		Three-phase AC230V/60Hz	
	Remote control	-		Yes	

Optional Accessories

Name	Picture	Name	Picture
Analog Display 0 - 40 kN		Calibration device	
Swivel arm for Analog Display		PC cabinet	
Column		Roller cover plate 13t (C-BTT 5x/6x)	
Lifting device		Roller cover plate 18t (C-BTT 7x/8x)	
Remote control		Pit safety KIT 2 (1,5 m x 2,5 m)	
Weight sensor set		PC-Connection and PC-Visualization Truck Software (with car)	
Air pressure sensor set			
Pedal force meter			

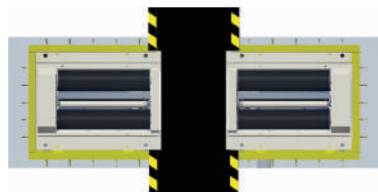
Pit & Bed Dimensions**C-BTC22****CBTT-7x/8x Pit Sample****C-BTT Foundation**

- Easy to install as the hydraulics of the load simulation are already integrated into the case of the roller set.
- Easy to fit into common foundations.
- Simply remove the old tester and install the new one.

Prerequisite To The Foundation

Pos.	BTT 5X/6X	BTT 7X/8X
1	C20/25 (DIN EN 19992-1-1)	C20/25 (DIN EN 19992-1-1)
2	820 mm	920 mm
3	575 mm	675 mm
4	650 mm	750 mm
5	120 mm	120 mm
6	80 mm	80 mm
7	93 mm	93 mm
8	80 mm	80 mm

Variants For Installation With Or Without Pit



With pit: two separate foundation frames as edge protectors



Without pit: one foundation frame



Installation Accessories

BTT 5x/6x	BTT 7X/8X
	separated pit-frame with 1000mm rollers
	non-separated (w/o pit) frame, track width 3000mm
	non-separated (w/o pit) frame, track width 3100mm
	non-separated (w/o pit) frame, track width 3200mm



Weight sensor



Roller chain



Roller cover plate

Vehicle Suspension Tester

Description

C-ESC20 Vehicle Suspension Tester is used to inspect the shock absorption performance of vehicles with independent suspension system. When the vehicle parks on the platform, the static wheel load will be measured by the sensor and displayed on the Monitor/Display Board. Then the motor will start to drive the Eccentric Wheel in the tester, which subsequently results into the vibration of Vibrating Plate. The motor will shut down automatically after reaching its nominal power. The plate will continue vibrating because of inertia, and result in sympathetic vibration between wheels and suspension. The minimum dynamic wheel load will be obtained during the sympathetic vibration. Then the absorption rate (displayed as percentage) can be calculated. The higher the absorption rate is, the better the suspension performance of the vehicle will be.



C-ESC20



PC Cabinet

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.

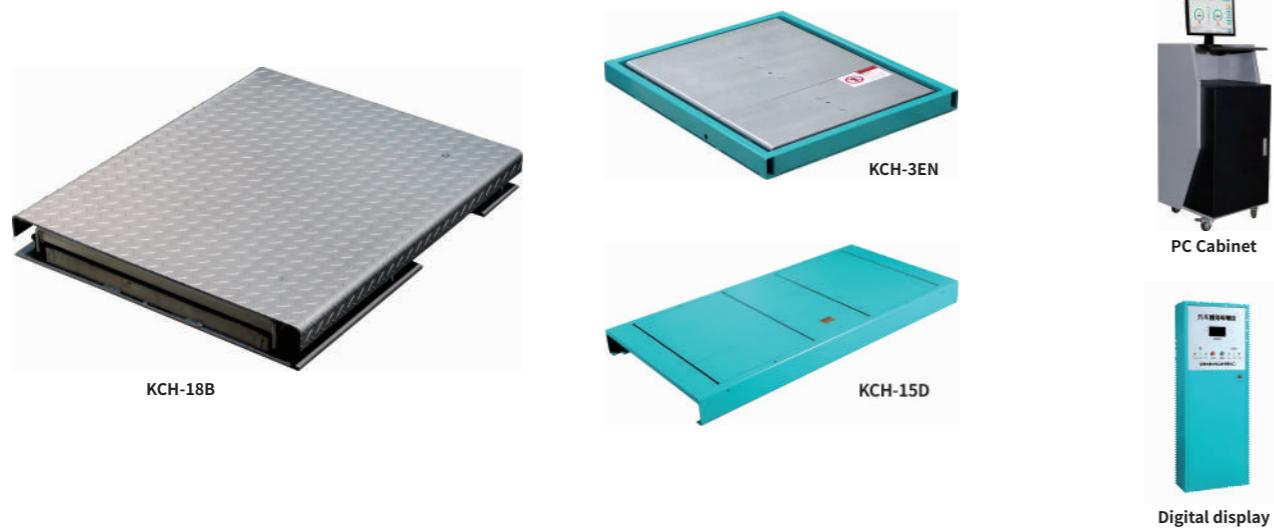
Technical data

Item	C-ESC20	KXJ-10
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

Vehicle Sideslip Tester

Description

Vehicle Sideslip Tester inspects the axle wheel alignment between camber and toe while the vehicle is driving in a straight direction. The destressing plate guarantees a correct and accurate measurement.



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.
- ▶ Standard RS-232 connection port.

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

Vehicle Speedometer Tester

Description

All models of speedometer are robust build, in order to verify the accuracy of speedometer and odometer of vehicles, fitted with a fast pneumatic lifting system which could facilitate to drive out the vehicles.



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	156×1100 mm
Roller tread	380 mm	405 mm	405 mm	4 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

Vehicle Wheel Load Tester

Description

Wheel Load Tester is designed for weighing the wheel/ axle/ total mass of all kind of vehicles .



Features

- ▶ Quick drive-through testing mode .
- ▶ Anti-slanting weighting design.
- ▶ Accurate and stable measure.
- ▶ Extra-strong structure body.
- ▶ Wheel load or axle load data display.
- ▶ Standard RS-232 connection port.

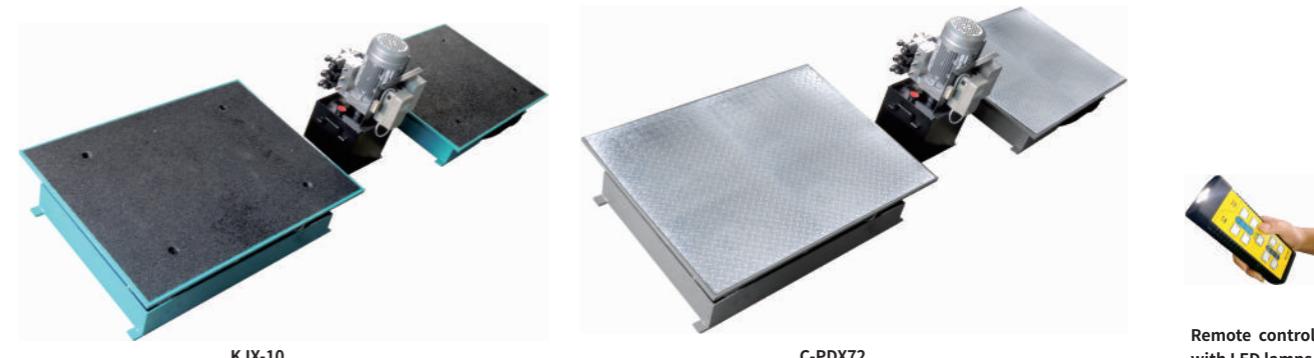
Technical Data

Item	KLZ-15
Max. passing load/axle	30000 kg
Measuring range/axle	0-15000 kg
Max.wheel tread	2700 mm
Plate dimensions	1100x1000 mm
Power supply	AC 220V, 50Hz, ground

Wheel Play Detector

Description

The wheel play detector equipped with two moving plate, is assisted to verify the joint play condition in a vehicle chassis. The play detector is made by three parts: 2x moving plates, hydraulic system and electric control system (with handheld remote & torch).



KJX-10
C-PDX72



Remote control
with LED lamps

Features

- ▶ Different movements of the plates are available.
- ▶ Hydraulic unit increases user convenience.
- ▶ Extra heavy duty structure, robust and lower noise design.

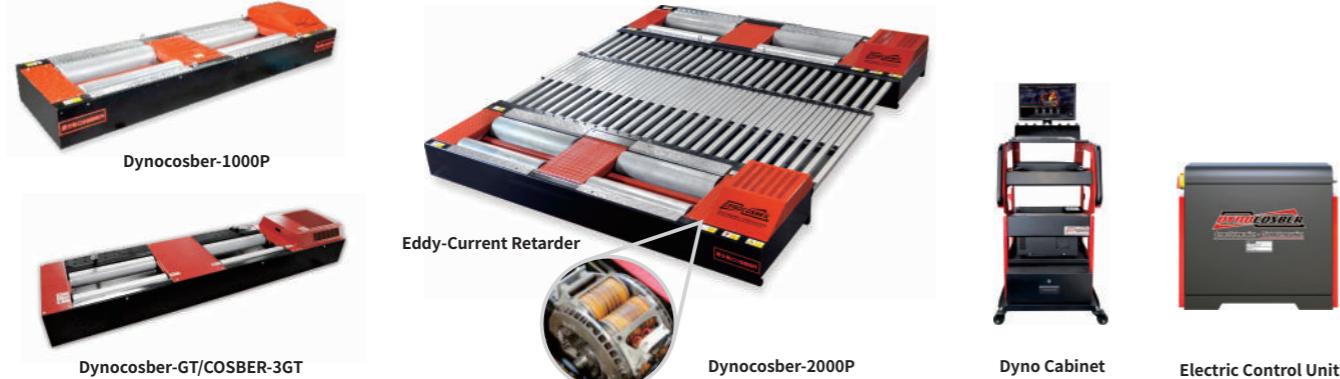
Technical Data

Item	KJX-10/18	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
Movement direction	6 directions	8 directions
Movement plate	(Left Plate: front / rear & left / right, Right Plate: front / rear)	(Both left and right plate has 4-direction movement)
Max.displacement force of plate control	30 kN Individually per plate	40 kN @130m/s Individually per plate
Power supply to control unit	3PH,380V, 50Hz, ground	3PH, 380V, 50Hz, ground
Motor power	2.2 kw	4.0 kw
Plate surface	Corundum sand	Pattem steel

Chassis Dynamometer

Features

- ▶ Extremely Durable Eddy-Current Retarder with Over-temperature Protection.
- ▶ No maintenance double air-chamber ensures the smooth of lifter.
- ▶ 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.



Technical Data

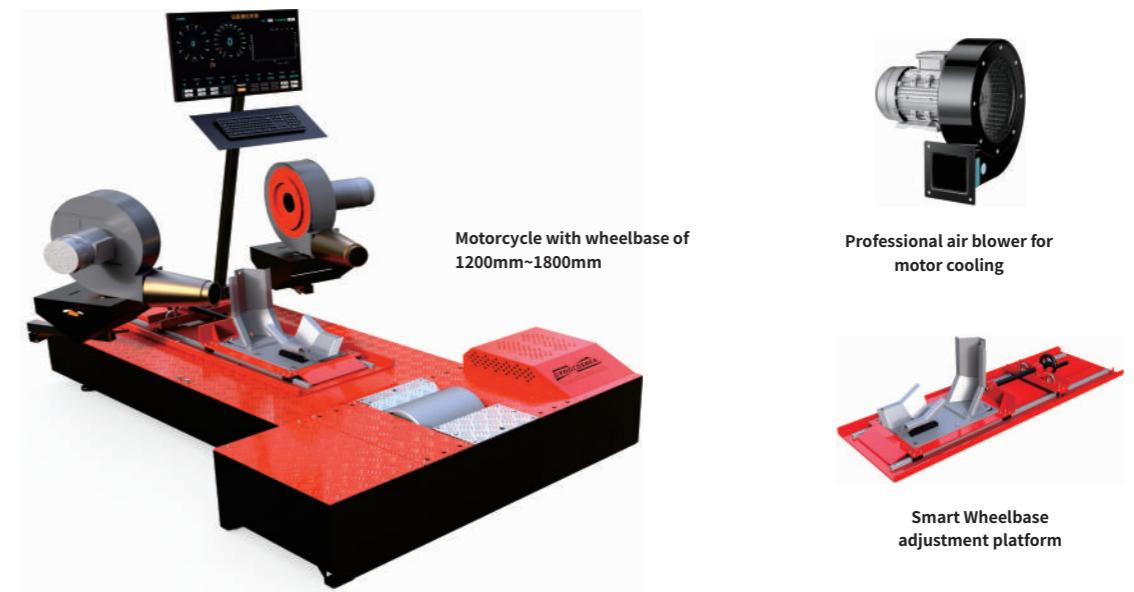
Item	Dynocosber-1000P	Dynocosber-2000P	Dynocosber-GT	KDC-3GT
Max. axle load	2000 kg	2000 kg×2	3500 kg	3500 kg
Roller diameter	218 mm	218 mm	216 mm	216 mm
Roller length	860 mm	860 mm	1000 mm	1000 mm
Roller center distance	430 mm	430 mm	442 mm	442 mm
Roller set quantity	2 Sets	4 Sets	2 Sets	2 Sets
Roller surface	Groove cut + Chrome coating	Groove cut + Chrome coating	Cross lathe + Chrome coating	Cross lathe + Chrome coating
Max. test speed	250 km/h	250 km/h	200 km/h	200 km/h
Max. test power	600 P	1200 P	500 P	400 P
Retarder power	250 kw	250 kw×2	160 kw	Fly wheel inertia
Lift mode	/	/	Air chamfer	Air Chamfer
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
Wheed tread	700-2100 mm	700-2100 mm	800-2700 mm	800-2700 mm
Power supply	AC 220V, 50Hz, ground	3ph, 380V, 50Hz, ground	AC 220V, 50Hz, ground	AC 220V, 50Hz, ground
Equipment dimensions	3070×850×448 mm	3070×4350×572 mm	4000×970×645 mm	4000×970×645 mm

DYNOCOSBER-M500 Motorcycle Chassis Dyno

Description

The M500 Dyno is a professional horsepower measurement equipment for two-wheel motorcycle. Its top testing speed is over300 km/h with max RPM to 16,000 RPM, and able to test up to 500 Hp on the wheel.

M500 use a compact body design but high efficiency, which is able measure motorcycle' s wheelbase of 1200mm~1800mm, its adjustable wheel base design allows M500 to test from small scooter to also cruiser motorcycle with long wheelbase. Special design of One-person-drive package and user-friendly interface make motor dyno test easy and enjoyable.



Features

- ▶ Extremely Durable Eddy-Current Retarder with Over-temperature Protection.
- ▶ Low machinery inertia for maximal of power sensibility.
- ▶ Display of chassis power, acceleration time, spot speed and traction torque.
- ▶ High adhesive and well-balanced roller.
- ▶ Long-lasting powder painting, good polishing of metal list part.

Main technical parameters

Item	Item	Item	
Maximum test speed	300 km/h	Speed display error	≤±1%
Maximum test power	500 hp	Force display error	≤±2%
Maximum load	1000 kg	Power indication error	≤±3%
Full loaded time	15 min	Equipment weight	700 kg
Max. Absorb.Torque	3600 N	Roller Dim.	Φ318 mm
		Max Power consum.	7.5 kW

Automatic Headlight Tester

Features

- Headlight tester is an important item during the inspection of security performance of motor vehicles, right installation angle and sufficient luminous intensity are important guarantee for safety driving.
- COS2800 headlight tester is totally automatic. Based on the characteristics of luminous intensity distribution of driving and passing beam of headlight, the instrument adopts advanced image processing technology and have feature point accurately located. As a highly intelligent instrument, it can automatically measure the offset of optic axis and luminous intensity of the headlight.
- The instrument can be used in network inspection for safety inspection of motor vehicles, leave factory and car repair workshop.



Manual Headlight Tester

Features

- Accurate inspection for high beam and low beam of automobiles, independent testing; fog light testing option available.
- Bright LCD screen, with professional Windows graphical operating system.
- "Arbitrary" 2D moving mechanism, laser-assisted positioning system to ensure easy artificial lights physical center alignment operation.
- Standard RS232 communication port (optional) to computer, reliable network software.
- Optional blue-tooth wireless communication module, optional mini-printer a special design to convenient user's operation.
- Suitable for manual adjustment and inspection of automobile headlight height. Suitable for use in various vehicle detecting organizations, vehicle inspection stations, automobile industry, repair and maintenance garages.
- Optional rechargeable battery module, adapt to a variety of work environments.
- Optional rail install version.



Technical Data

Item	COS 2800
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

Technical Data

Item	CSB-600M / MQD-3C
Measuring range of High light illuminating intensity	0~120000 cd
Measuring range	vertical direction: up 350mm/10m ~ down 525mm/10m (up2° ~ down3°) horizontal direction: left 525mm/10m ~ right 525mm/10m (left3° ~ right3°)
Height Measuring range	35~130 cm
Measuring distance	500m ±5mm
Indicated value error of High light illuminating intensity	±10%
Indicated value error of High light & near light axis offset	±12%
Temperature	-5~40°C
Relative humidity	≤90%
Power supply	AV 220 ±10% 50/60HZ
Outer size	Whole engine(L×W×H): 680×570×1580 mm

Exhaust Gas Analyser

Features

- ▶ It used for measuring automotive emission exhaust CO, HC, CO₂, O₂, and NO.
- ▶ LCD display with Chinese/English operation menu. It is easy to operate.
- ▶ Inside bench is world advanced bench that meets OIML Class 0 made by HORIBA Japan. The other sensors are imported world brand products.
- ▶ It has the functions with auto zero, auto calibration and leak check.
- ▶ Flexible probe can suit almost all kinds of tail tubes.
- ▶ It is equipped with the newest aluminum alloy drain separator, so that the efficiency of water separation is better.
- ▶ Original 30 seconds fast warm-up function.
- ▶ Auto compensation ambient pressure and environmental temperature for eliminating variable influence.
- ▶ Auto calculate engine AFR, λ .
- ▶ It is equipped with two idle test functions.
- ▶ It can store more than 200 measuring results for read.
- ▶ It equipped standard RS-232 interface and DC 0-1V.
- ▶ Signal output for connecting computer easily to you.
- ▶ Enable upgrade soft with ISP interface.



KWQ-5

Smoke Opacimeter

Features

- ▶ Split structure, separated measuring unit and control unit for easy operation.
- ▶ Large LCD screen, Chinese or English interactive menu, with opacity reading and light absorption coefficient reading, simple, direct and convenient operation.
- ▶ With functions of free acceleration test and measurement of transients, automatic process of test data and display of measuring results.
- ▶ With functions of License Plate Number entry, save, data and view.
- ▶ 15 minutes warm-up time, automatic zero reset.47-1999.
- ▶ With functions of License Plate Number entry, save, data and view.
- ▶ 15 minutes warm-up time, automatic zero reset.
- ▶ With adoption of advanced partial flow technology, measuring unit tests smoke emissions of diesel-powered vehicles directly. "Scavenge air curtain" technology prevents the optical system from being polluted. With constant temperature control in the sample cell, it can avoid condensation and influence of accuracy due to change of temperature.
- ▶ With functions of data printing and communication with host computer, serial RS-232C interface or RS-485C interface can be selected.
- ▶ The performance meets the requirement of ISO11614 and GB3847-1999.



KYD-6

Technical Data

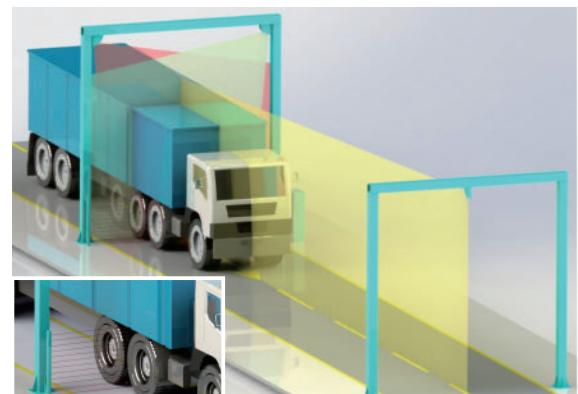
Item	KWQ-5
Connection of sample gas	probe is attached
Sample gas flow rate	Approx. 6 L/min
Sample gas pressure	From 0.0 kPa to 1.0 kPa
Repeatability	CO: 0-10.00% within $\pm 0.02\%$ vol or $\pm 3\%$ of readings, 10.01-15.00% within $\pm 5\%$ of readings CO ₂ : 0-16.00% within $\pm 0.3\%$ vol or $\pm 3\%$ of readings, 16.01-18.00% 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 : 0-10.00% within $\pm 0.4\%$ vol or $\pm 3\%$ of readings, 10.01-25.00% 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

Technical Data

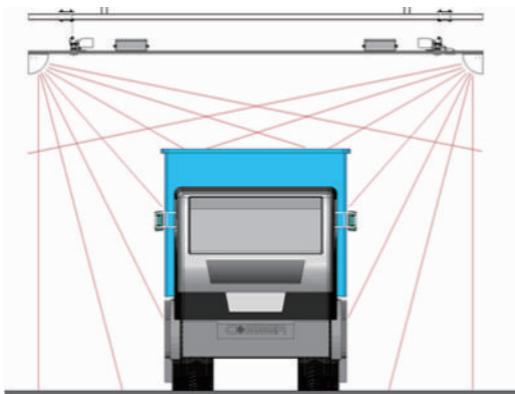
Item	KYD-6
Measuring Range	Opacity N: 0~99.9% Coefficient of light-absorption k: 0~16m ⁻¹
Resolution	Opacity N: 0.1% Coefficient of light-absorption k: 0.01m ⁻¹
Indication error	$\pm 2\%$
Stability	$\pm 1\%/h$
Ambient temperature	5~40°C
Relative humidity	0~90%
Power	AC 220V $\pm 10\%$ 50Hz $\pm 1\%$
Weight	3 Kg
Output	RS-232(1200, 2400, 4800, 9600, 19200)

Vehicle Dimension Scanning System

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.

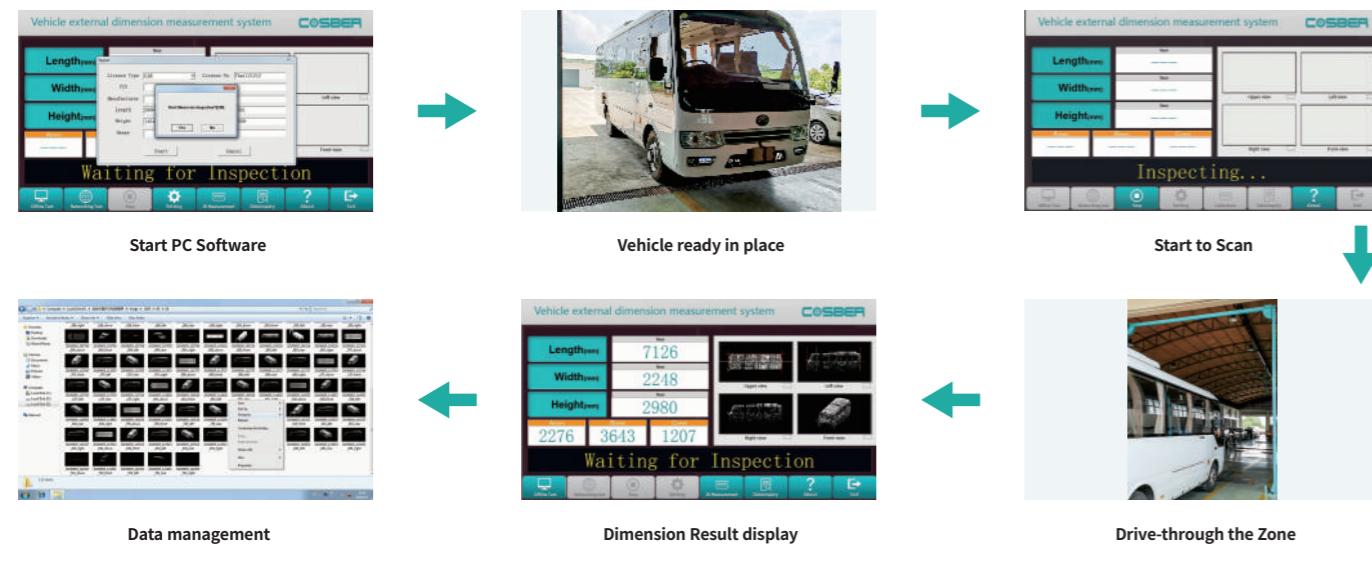
Accuracy

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.

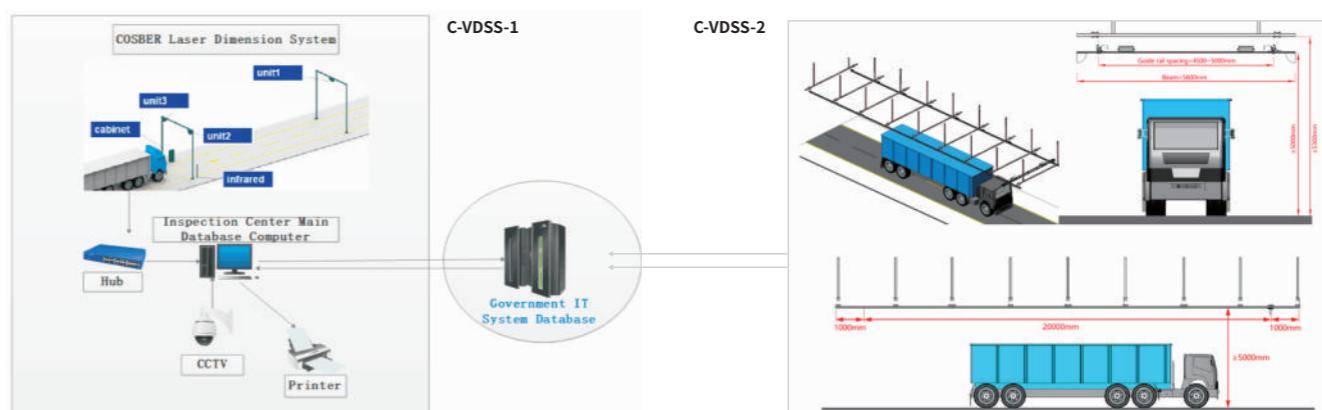
C-VDSS Working Process



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	≤10mm	≤20mm
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

IT & Equipment Structure of COSBER VDSS



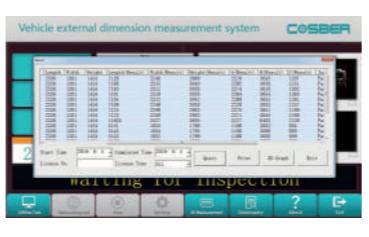
Outdoor Installation



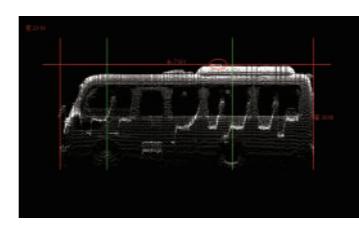
Within Testlane (C-VDSS-2)



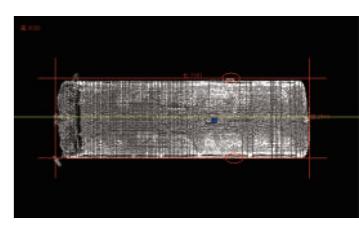
Independent Zone



Data query



Profile Scanned

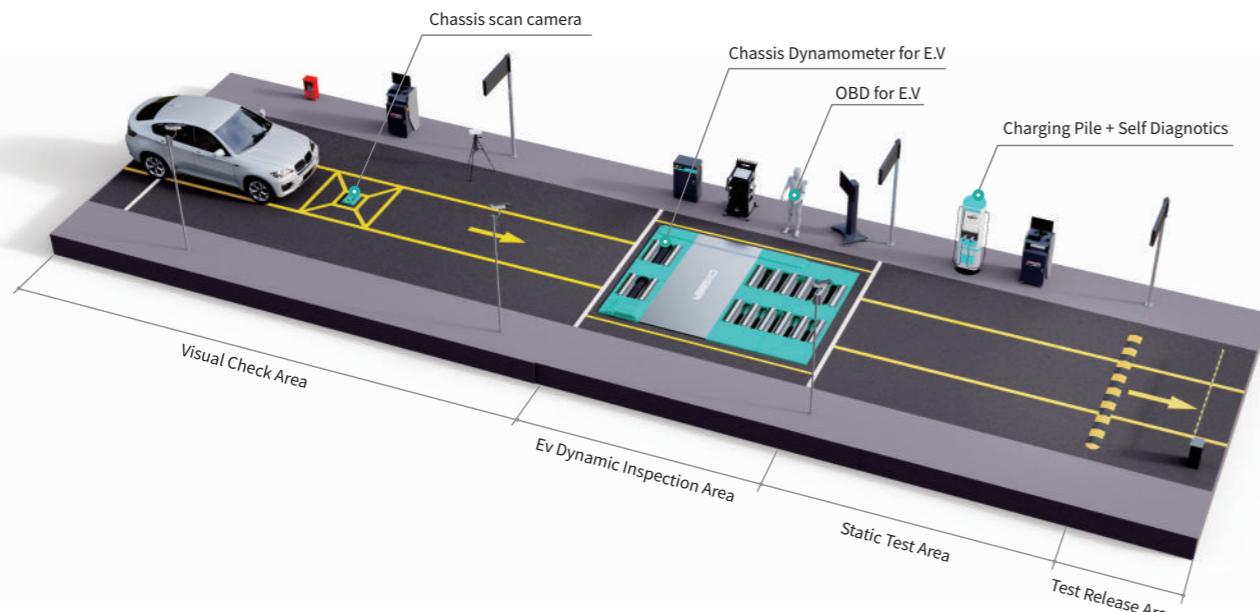


Vertical View

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

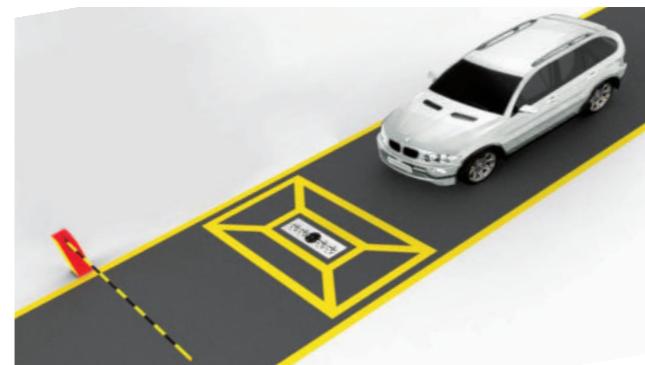
In 2020, the Ministry of Industry and Information Technology organized and formulated three mandatory national standards in China. Based on the Operation safety, Battery health and Personal safety of electric vehicles, this regulation provides after-market services for the electric vehicle industry by 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 E.V is detected.

Vehicle electronic system diagnostic testing



Through E.V OBD tools, the functionality of electronic devices in E.V 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

Parameter



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 stably ability

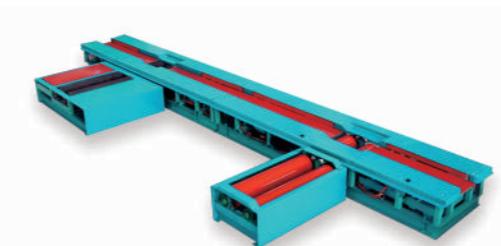
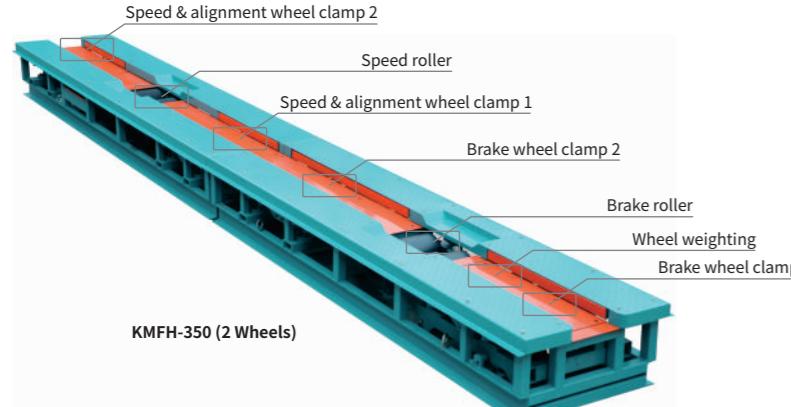


Test of driving power and stable driving performance by a full capable Chassis dyno systems.

2&3 Wheels Motorcycle 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.



KMFH-350Q (2&3 Wheels)



C-BTM-12

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	KMFH-350 (2 Wheels)	KMFH-350Q (2&3 Wheels)	C-BTM-12 (Brake Tester)
Measuring range	0-500 kg	0-1000 kg	0-2000 kg
Max. wheel weight	350kg	750 kg	1500 kg
Brake force	0-3000 N	0-3000 N	0-6000 N
Measurement speed	0-80 km/h	0-80 km/h	--
Brake motor power	1.5 kW	2 × 1.5 kW	2 × 3 kW
Speed motor power	4 kW	4 kW	--
Motor type	Variable speed	Variable speed	--
Equipment dimensions	6170 × 820 × 385 mm	6170 × 1800 × 385 mm	620 × 660 × 280 mm
Equipment weight	1250 kg	1850 kg	200 kg
Air supply	0.5-0.6 MPa	0.5-0.6 MPa	--
Power supply	AC 380V, 50Hz, ground	AC 380V, 50Hz, ground	AC 380V, 50Hz, ground

Chassis Scanning System

Features

- Automatic digital line scan camera, with high-resolution and clarity of the image.
- The complete image of chassis scanning is clear, complete, no distortion, no omission, can be clearly observed that the object is not less 2mm in diameter.
- Preparation of inspection processes to meet a variety of on-site needs.
- Multiple scene image monitoring, recording function.
- Multi-language user interface design.
- Strong scalability to easily achieve a variety of system linkage control.
- ALPR (Automatic Licence Plate Recognition) (optional).
- Multiple devices networked control functions (optional) .



Software interface



C-CSS-1

Technical Data

Item	C-CSS-1
Vertical resolution	2048 pixel
Check the width viewing angle	< 4 meters
Vehicle pass speed	1~30 Km/H
Chassis clearance rang	50 - 600mm
Auxiliary light	2×25 W LED
Water-proof	IP68
Equipment gross weight	30 kg
Equipment dimension L×W×H	400 × 450 × 88 mm
Working temperature	-10~55 °C