

CNC605+

GDI/PIEZO Injector Cleaner & Tester



AC519+

A/C Service Station

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2025 ISSUE 2

CE39

EV Diagnose, Equalize & Charge/Discharge Equipment



WA613

Magnetic Wireless 3D Wheel Aligner



PRODUCT SERIES

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EV1 EV Detection Tool

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EV2 EV Maintenance Equipment

WA613

Magnetic Wireless 3D Wheel Aligner



Scan for more information

WA613 is a Magnetic Wireless 3D Wheel Aligner with a new industrial design. It abandons the beam and cabinet design of traditional 3D wheel aligners. It consists of 2 magnetic measurement units + 4 wheel clamp targets. It performs four-wheel alignment detection on vehicles through wireless networking communication.

Instant experience, ready to use out of the box

Magnetic measuring unit, no installation required

No beams and cabinets required, small footprint

Patented four-point hub wheel clamp, wheel clamp axle with scale



*Lift is shown only, lift is not included

Features

1. Instant experience: no installation, no wiring, no calibration required, ready to use right out of the box.
2. Space-saving: No need to install beams and cabinets, requiring less space.
3. Quick measurement: Outputs high-precision four-wheel alignment results within 30 seconds.
4. Patented magnesium alloy single axle wheel clamp, lightweight and labor-saving, strong and durable. The wheel clamp axle comes with a scale, and the wheel clamp can be pre-adjusted according to the tire diameter.
5. Magnetic measurement units: no assembly or wiring required, free to go, no calibration required, ready to use out of the box.
6. Wireless transmission: With ST13 intelligent connection terminal to display measurement results and process, and facilitate vehicle bottom adjustment
7. Compact packaging: Lightweight design and materials significantly reduce packaging weight and size, with transport weight and volume only 20%-30% of traditional 3D four-wheel alignment machines.
8. Multi-platform compatibility: Compatible with large scissor lifts and four-post lifts.
9. Wall-mounted storage and charging: Measuring unit and wheel clamps can be hung on the wall by means of a wall bracket for convenient storage and charging.

Functions

1. **Four-wheel alignment measurement:** It supports standard measurement and quick measurement and can measure key parameters such as toe, camber, caster, kingpin inclination, and thrust angle. Supports additional measurements such as wheelbase, wheel track, axle offset, wheel offset, diagonal, center offset, etc.
2. **Database:** Supports positioning data of 50,000+ global vehicle models, and supports user-defined database.
3. **Terminal wireless connection:** Measurement data is transmitted wirelessly, and the four-wheel alignment process is displayed with the ST13 intelligent connection terminal.
4. **Test report:** Generate professional test reports, support data comparison before and after adjustment, and support report sharing.
5. **Multi-platform compatibility:** Compatible with large scissor lifts and four-post lifts.

Parameters

Toe-in	±20°	Maximum steering angle	±35°
Camber	±10°	Wheel Base	1940~4600mm
Caster	±20°	Wheel Track	1290~1900mm
SAI	±20°	Wheel Diameter (4-point wheel hub clamp)	275~640mm

CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration

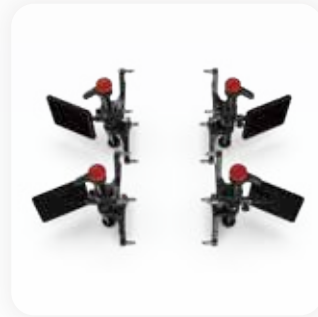
EV1 EV Detection Tool

EV2 EV Maintenance Equipment

Product composition



Measuring unit
(One for left / one for right)



Four-point wheel hub clamp kit



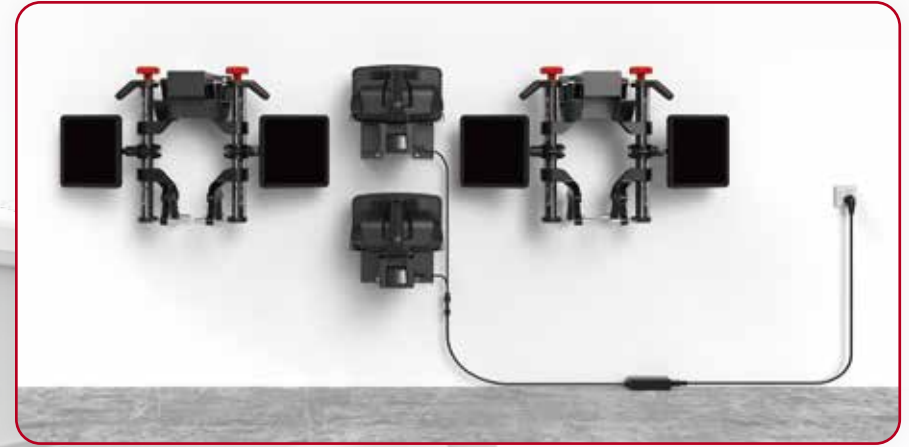
ST13



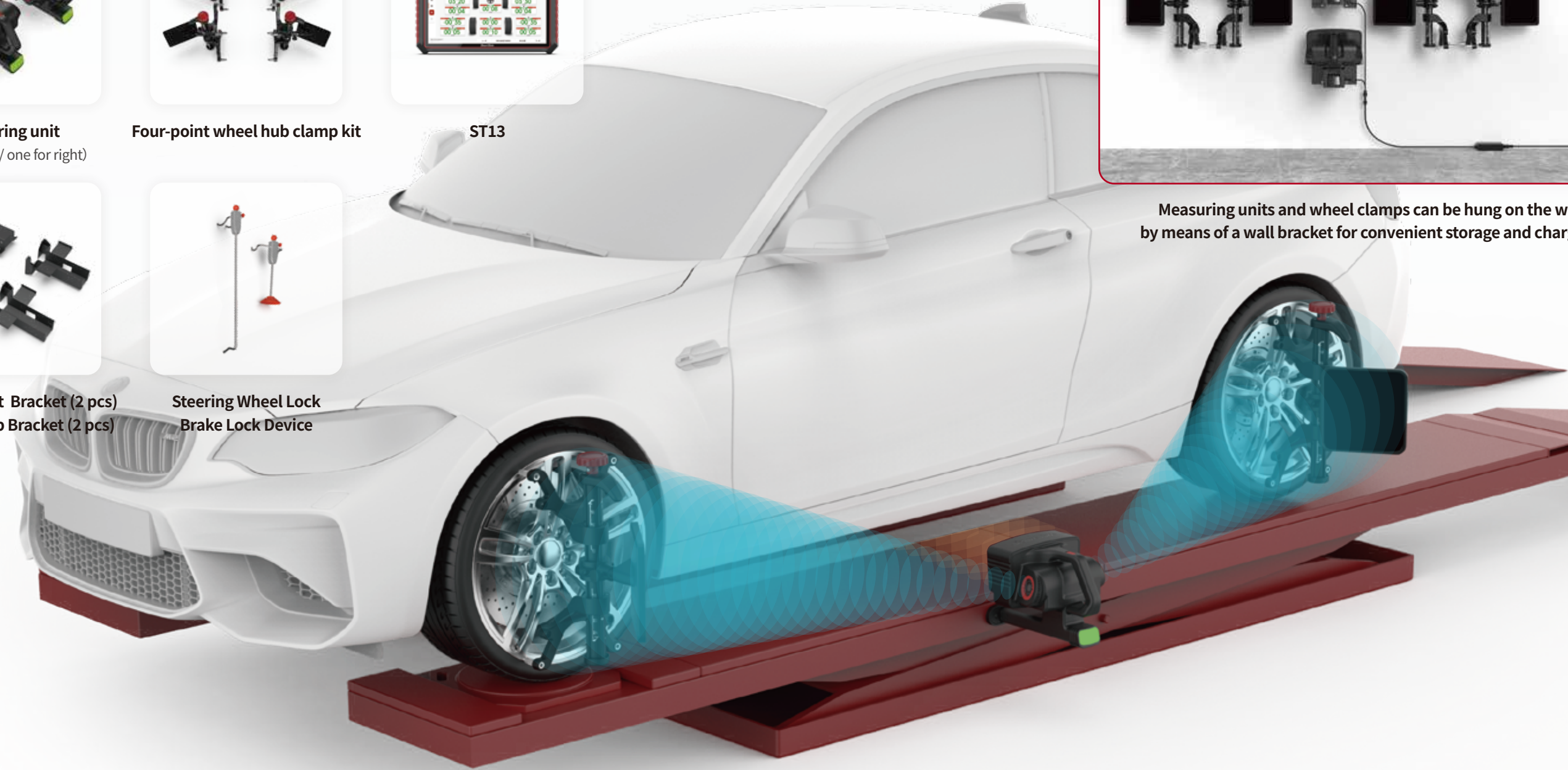
Measuring Unit Bracket (2 pcs)
4 Points Clamp Bracket (2 pcs)



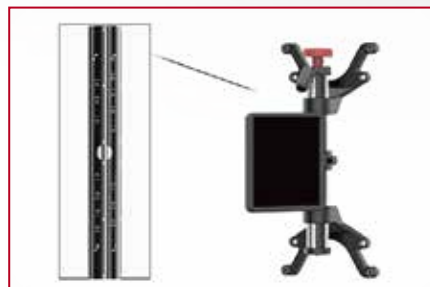
Steering Wheel Lock
Brake Lock Device



Measuring units and wheel clamps can be hung on the wall by means of a wall bracket for convenient storage and charging.



Fast output of high-precision four-wheel alignment report



The wheel clamp axle comes with a scale, and the wheel clamp can be pre-adjusted according to the tire diameter.



Magnetic measuring unit, no installation required.



No installation, no debugging, ready to use, save service and time.



Compatible with large scissor lifts and four-post lifts.



Wireless networking, connected to ST13 to display measurement process and results.



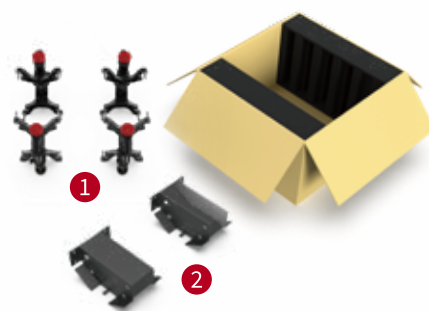
WA613 Measuring unit casing

No.	Accessories	Quantity
1	Measuring unit	2
2	Power adapter	1
Dimensions: 700X450X300mm		



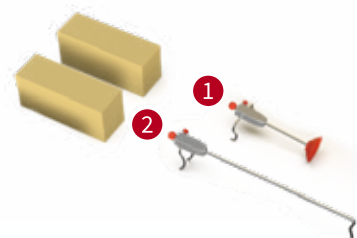
WA613 Accessory box

No.	Accessories	Quantity
1	Target	4
	Measuring Unit Bracket	2
2	ST13 Tablet	1
	Password seal	1
3	Screen cleaning cloth	1
	Quick start guide	1
	Manual	1
	Packing list	1
Dimensions: 700X418X300mm		



WA613 four-point wheel clamp package

No.	Accessories	Quantity
1	Four-point Wheel Hub Clamp	4
2	Four-point Clamp Bracket	2
Dimensions: 864X700X385mm		



WA613 Auxiliary toolbox

No.	Accessories	Quantity
1	Steering wheel lock	1
2	Brake Lock Device	1



WA613 Auxiliary toolbox (optional)

No.	Accessories	Quantity
1	Tire angle plate	2
2	Tire wedge	2
3	Tire transition block	2

WA613F

Ground-based Wireless 3D wheel Aligner

WA613F is a ground-based wireless 3D wheel aligner for car repair gutter, consisting of two ground-based measurement units, four wheel clamp targets, and a tablet terminal.

Instant experience, ready to use out of the box

Measuring unit can be placed on the ground for measurement without installation

No beams and cabinets required, small footprint

Patented four-point hub wheel clamp, wheel clamp axle with scale



Features

- Instant experience: no installation, no wiring, no calibration required, ready to use right out of the box.
- Space-saving: No need to install beams and cabinets, requiring less space.
- Quick measurement: Outputs high-precision four-wheel alignment results within 30 seconds.
- Patented magnesium alloy single axle wheel clamp, lightweight and labor-saving, strong and durable. The wheel clamp axle comes with a scale, and the wheel clamp can be pre-adjusted according to the tire diameter.
- Magnetic measurement units: no assembly or wiring required, free to go, no calibration required, ready to use out of the box.
- Wireless transmission: With ST13 intelligent connection terminal to display measurement results and process, and facilitate vehicle bottom adjustment.
- Compact packaging: Lightweight design and materials significantly reduce packaging weight and size, with transport weight and volume only 20%-30% of traditional 3D four-wheel alignment machines.
- Perfect for car repair gutter: Two measuring units can be placed on the ground for four-wheel alignment measurements, perfect for car repair gutter.
- Wall-mounted storage: wheel clamps can be hung on the wall by means of a wall bracket for convenient storage.

Functions

- Four-wheel alignment measurement:** It supports standard measurement and quick measurement and can measure key parameters such as toe, camber, caster, kingpin inclination, and thrust angle. Supports additional measurements such as wheelbase, wheel track, axle offset, wheel offset, diagonal, center offset, etc.
- Database:** Supports positioning data of 50,000+ global vehicle models, and supports user-defined database.
- Terminal wireless connection:** Measurement data is transmitted wirelessly, and the four-wheel alignment process is displayed with the ST13 intelligent connection terminal.
- Test report:** Generate professional test reports, support data comparison before and after adjustment, and support report sharing.
- Perfect for car repair gutter:** Two measuring units can be placed on the ground for four-wheel alignment measurements, perfect for car repair gutter.

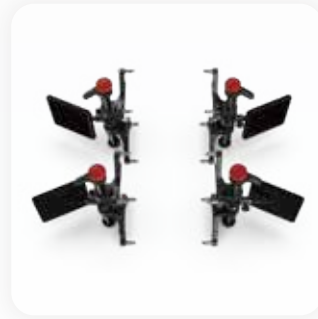
Parameters

Toe-in	±20°	Maximum steering angle	±35°
Camber	±10°	Wheel Base	1940~4600mm
Caster	±20°	Wheel Track	1290~1900mm
SAI	±20°	Wheel Diameter (4-point wheel hub clamp)	275~640mm

Product composition



Measuring unit
(One for left / one for right)



Four-point wheel hub clamp kit



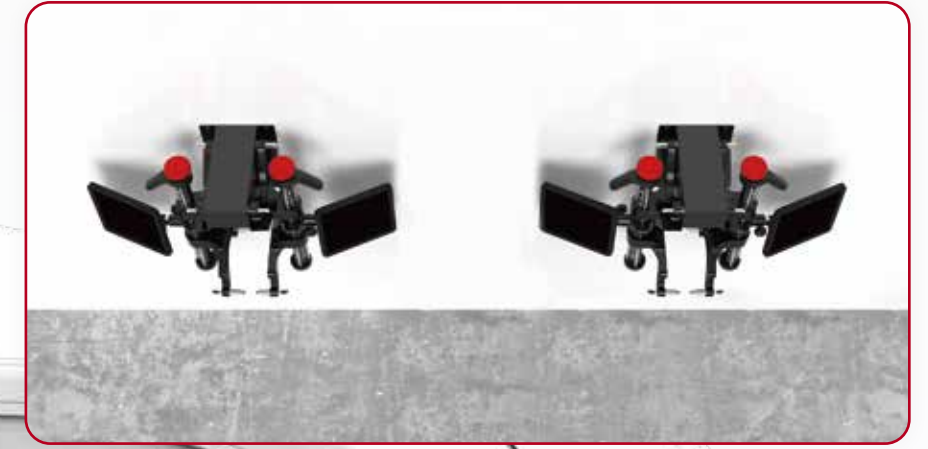
ST13



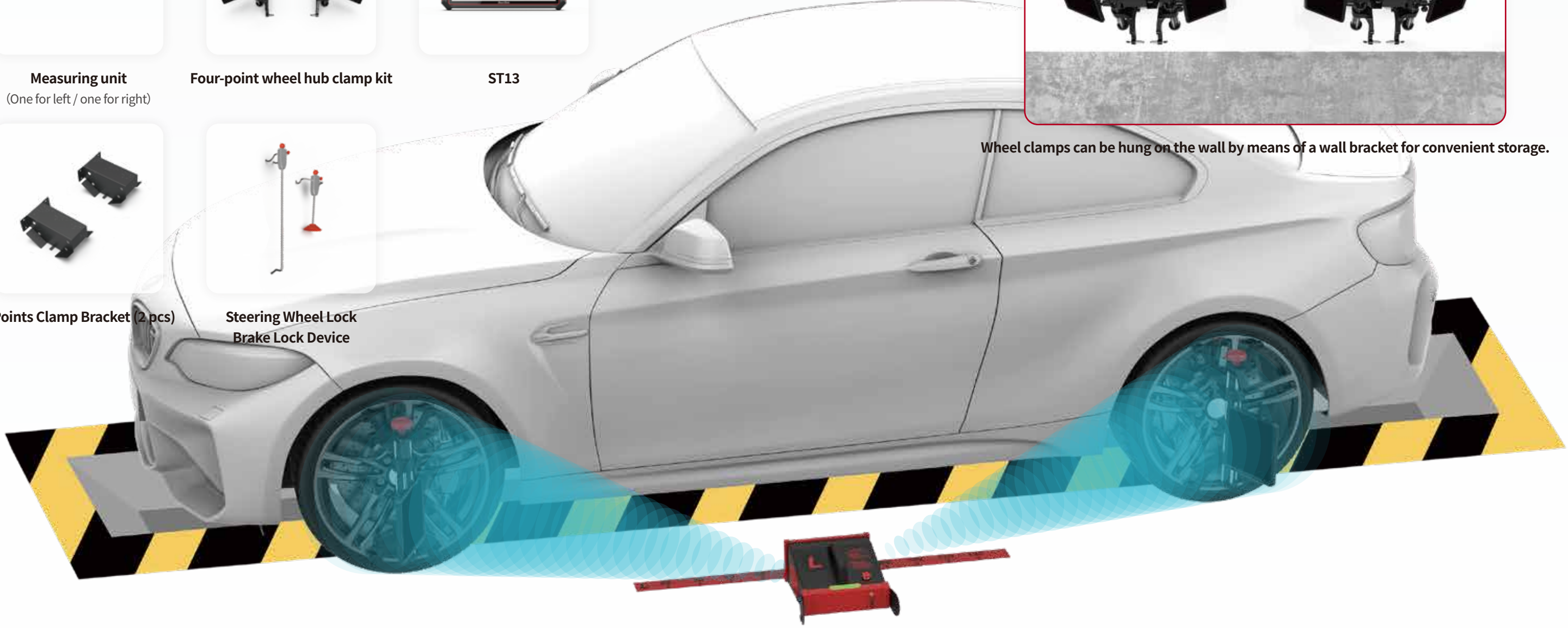
4 Points Clamp Bracket (2 pcs)



**Steering Wheel Lock
Brake Lock Device**



Wheel clamps can be hung on the wall by means of a wall bracket for convenient storage.



Fast output of high-precision four-wheel alignment report



The wheel clamp axle comes with a scale, and the wheel clamp can be pre-adjusted according to the tire diameter.



Measuring unit can be placed on the ground for measurement without installation



No installation, no debugging, ready to use, save service and time.



Perfect for car repair gutter, Two measuring units can be placed on the ground for four-wheel alignment measurements



Wireless networking, connected to ST13 to display measurement process and results.

CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration

EV1 EV Detection Tool

EV2 EV Maintenance Equipment

CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration

EV1 EV Detection Tool

EV2 EV Maintenance Equipment



WA613F Measuring unit casing

No.	Accessories	Quantity
1	Measuring unit	2
2	Power adapter	2

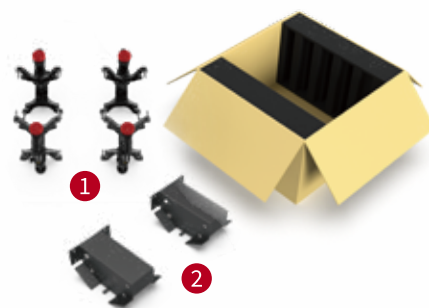
Dimensions: 700X450X300mm



WA613F Accessory box

No.	Accessories	Quantity
1	Target	4
2	ST13 Tablet	1
3	Password seal	1
	Screen cleaning cloth	1
	Quick start guide	1
	Manual	1
	Packing list	1

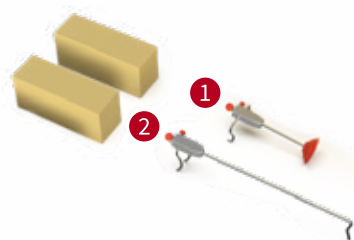
Dimensions: 700X218X300mm



WA613F four-point wheel clamp package

No.	Accessories	Quantity
1	Four-point Wheel Hub Clamp	4
2	Four-point Clamp Bracket	2

Dimensions: 864X700X385mm



WA613F Auxiliary toolbox

No.	Accessories	Quantity
1	Steering wheel lock	1
2	Brake Lock Device	1



WA613F Auxiliary toolbox (optional)

No.	Accessories	Quantity
1	Tire angle plate	2
2	Tire wedge	2
3	Tire transition block	2

WA913

Touchless Wireless Wheel Aligner



Scan for more information

WA913 is a touchless wheel aligner which adopts technology of laser image recognition processing and three-dimensional measurement to perform wheel alignment on vehicles.

Touchless, wear-free

Simple operation, no need to push the vehicle

Magnetic suction design, installation-free

Wireless communication



*Lift is shown only, lift is not included

Features

1. Touchless, not install wheel clamps and targets. Zero damage to wheel hub.
2. The industry's first magnetic design, ready to use out of the box, no assembly or wiring required; Factory calibration-free.
3. Simple, efficient and no vehicle-push required. Generate wheel alignment test result within 30 seconds.
4. Compatible with multiple platforms and can be adapted to big scissor lifts and four post lifts.
5. Work with ST13 intelligent terminal to display testing process and result. Convenient to adjust vehicle as well.
6. Equipped with large-capacity battery. It is safer not to connect power during whole wheel alignment process.

Functions

1. **Four-wheel alignment measurement:** It supports standard measurement and quick measurement and can measure key parameters such as toe, camber, caster, kingpin inclination, and thrust angle. Supports additional measurements such as wheel base, wheel track, axle offset, wheel offset, diagonal, center offset, etc.
2. **Vehicle model database:** Covers four-wheel alignment data for 50,000+ models around the world and supports user customization.
3. **Terminal wireless connection:** The measurement data is transmitted wirelessly and paired with the ST13 intelligent link terminal to display the four-wheel alignment process.
4. **Test report:** Generate professional testing reports, support data comparison before and after training, and support report sharing.
5. **Multi-platform compatible:** Can be adapted to big scissor lift and four post lift.
6. **Charging base:** Equipped with two charging bases, which combine charging and storage.

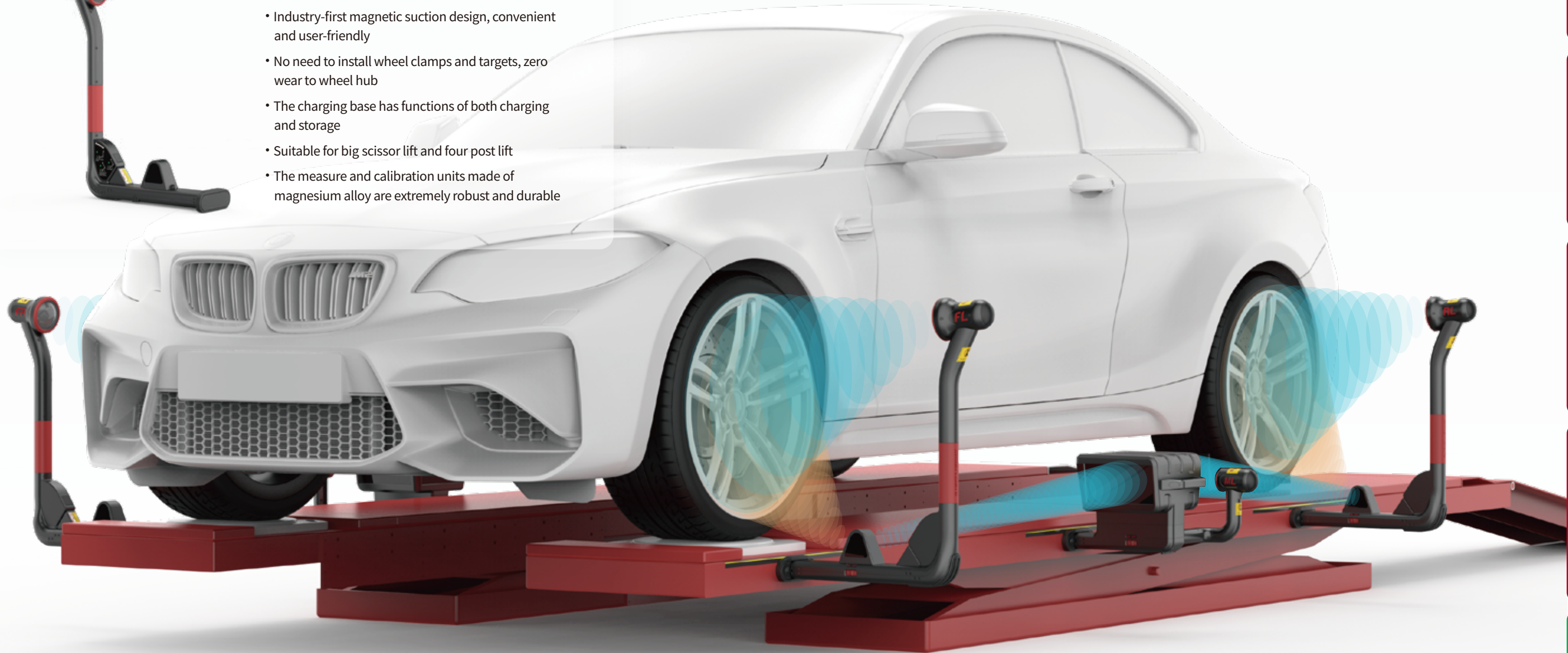
Parameters

Toe-in	±20°	Wheel Base	2150~3700mm
Camber	±10°	Wheel Track	1430~1900mm
Caster	±20°	Wheel Diameter	590~880mm
SAI	±20°		

Measurement Unit



- Complete wheel alignment measurement in 30 seconds, display results
- Industry-first magnetic suction design, convenient and user-friendly
- No need to install wheel clamps and targets, zero wear to wheel hub
- The charging base has functions of both charging and storage
- Suitable for big scissor lift and four post lift
- The measure and calibration units made of magnesium alloy are extremely robust and durable



Using three-dimensional laser image processing technology



High-precision 5 million pixels industrial camera



Industry's first magnetic design solution



The charging base has both charging and storage functions



Suitable for scissor lift and 4 post lift



Wireless networking, connect to ST13 to display the measurement process and results

TTM313

Tire Tread Depth Examiner



Scan for more information

TTM313 is a handheld tread depth laser detector with a measurement accuracy of up to 0.1mm. The innovative structural design makes the measurement not limited by the chassis height. It uses line laser to scan the entire tread surface and supports two modes: full tread surface measurement and single groove measurement.

- 0.1mm measurement accuracy**
- Supports two modes: full tread surface measurement and single groove measurement**
- Read single tire data in 3 seconds**
- Support to share reports by scanning code**



Features

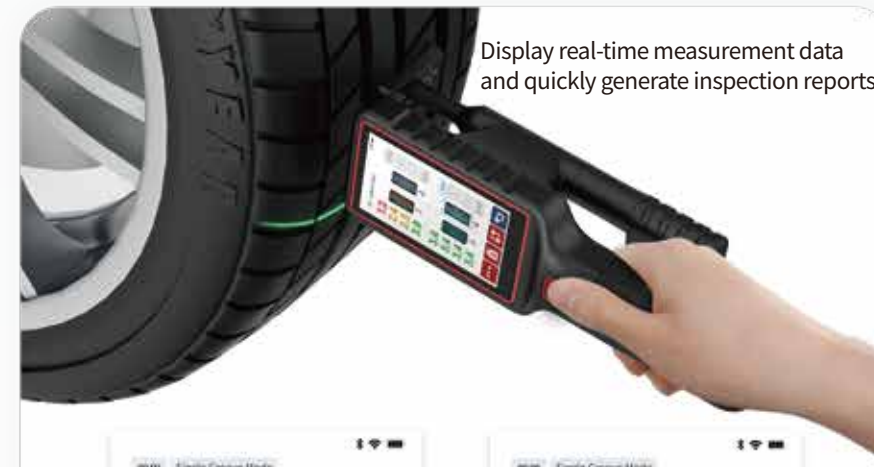
1. The innovative structural design makes the measurement not limited by the chassis height, which is convenient and easy to use.
2. Support full groove detection, scan the entire tread surface at one time, obtain the number of grooves and the depth data of each groove, and output the detection report.
3. Supports single-groove detection, that is, measuring the depth of individual grooves or small tire treads. And output a single tire detection report.
4. 0.1mm measurement accuracy, real-time display of measurement results.
5. 180mm laser measurement width, supports more tire specifications.
6. Generate professional inspection reports and maintenance recommendations, which can be shared by scanning the QR code after connecting to Wi-Fi.

Functions

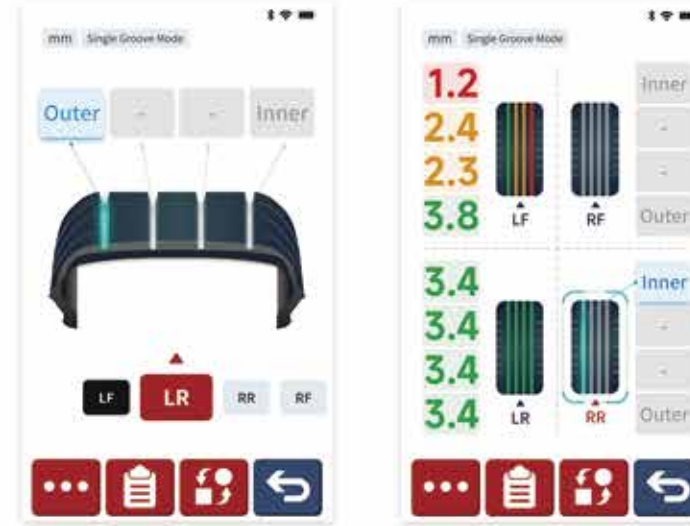
- 1. Tire tread depth measurement:** Supports one-time measurement of the entire tread surface for a single tire and also supports single-groove detection, that is, measuring the depth of individual grooves or small tire treads.
- 2. Test report:** Quickly generate a tire tread inspection report that displays tread data, wear analysis, estimated braking distance, maintenance recommendations, and more. After connecting to Wi-Fi, the report can be shared via a QR code.
- 3. Detection parameter settings:** Supports setting of number of tires (up to 6), tread depth standard and unit.
- 4. Equipment calibration:** Can be used with the calibration block, users can calibrate the measurement accuracy of the device as needed.
- 5. Used with a variety of SmartSafe connection terminals:** Can be used with ST13/P13/P03 and other devices to display and save measurement results synchronously.
- 6. System settings:** Supports Wi-Fi connection, language switching, screen brightness adjustment, automatic sleep, software update and other functions.

Parameters

CPU	RK3326	Measurement accuracy	0.1mm
Memory	2GB	Maximum measured width	180mm
Storage	32GB	Communication mode	Wi-Fi (support 2.4GHz/5GHz dual-band) Bluetooth
Screen	3.97 inches, LCD touch screen, resolution 480×800	Charging input	DC 5V/2A
Measuring camera	2 million pixels	Operating temperature	0~45°C
Battery	5000mAh/3.7V	Storage temperature	-20~60°C
Photography camera	8 million pixels		



Display real-time measurement data and quickly generate inspection reports.



Supports Bluetooth connection to tablet terminals, allowing you to view historical inspection records and report details.

Report

📶 🔋

Tread Depth Data (mm)

Outer	2.2	2.7	1.1	Inner
LF				
Outer	3.4	2.9	3.6	Inner
LR				
Inner	1.8	3.4	3.6	Outer
RR				
Inner	2.9	3.1	3.6	Outer
RF				

✔ Normal > 2.5mm
⚠ Warning 2.5mm > Depth > 1.6mm
❌ Danger < 1.6mm

Braking Distance (80km/h)

Ideal Vehicle

Your Vehicle

Tread Depth & Distance

✔ 8mm | ⚠ 2.5mm | ❌ 1.5mm
✔ 40m | ⚠ 50m | ❌ 60m

Tire Wear

Inner Wear	Outer Wear
LF	RR

Repair Recommendations

- Four-wheel alignment check
- Replace tires LF

TTM619

Tire Tread Depth Detection Equipment



Scan for more information

TTM619 is an intelligent tire tread depth detection equipment with an accuracy of 0.1mm, which can complete the tread depth data acquisition at the moment the car passes, and generate inspection reports and maintenance suggestions on the computer or mobile terminal.

0.1mm Detection Accuracy

Report Generated in 4 Seconds

3D Optical Technology

IPX5 Waterproof Rating



Features

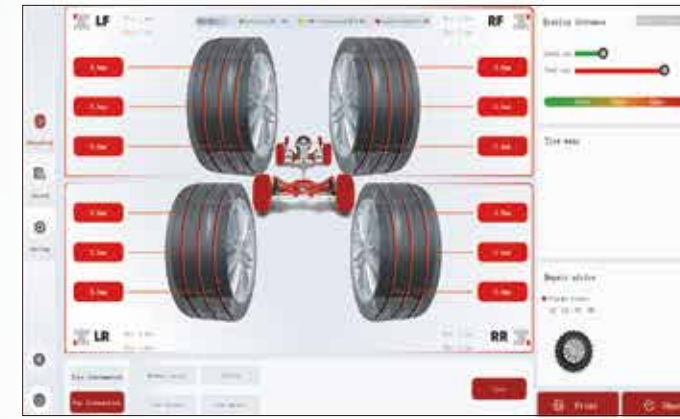
1. Fully automatic detection without manual operation, greatly improving the detection efficiency;
2. Applicable to all kinds of four-wheel passenger car tire tread depth detection, the accuracy can reach 0.1mm, and the detection report can be output in 4 seconds;
3. Provide tire maintenance, replacement and four-wheel alignment suggestions according to the tread wear;

Functions

1. **Tread depth measurement:** after the vehicle passes by, it will automatically identify the number of tire grooves and measure the depth;
2. **Inspection report:** quickly generate tread depth inspection report, display tread depth data, wear analysis, braking distance estimation, maintenance suggestions, etc., and support report sharing;
3. **Multiple communication methods:** the PC side supports wired and bluetooth communication, and the Android side supports bluetooth communication;
4. **It can be used with a variety of Smartsafe intelligent terminals:** such as ST13, ST10, P01, P03, etc., to display the measurement results.

Parameters

Power	100~240V, 50/60HZ	Range of Vehicle Wheelbase	1360~1720mm
Working Voltage	DC 24V	Communication	BT、USB
Max Capacity	4t	Waterproof Grade	IPX5
Accuracy	0.1mm	Product Size	2165×1660×100mm
Max Scanning Width	450mm	Working Temperature	-10~45°C
Max Passing Speed	15km/h	Working Humidity	20%~85%



Supports Multi-Terminal Display

Connects to tablet devices or computer terminals via Bluetooth, allowing viewing of historical inspection records and detailed reports.

Professional Inspection Report

Generate tire tread inspection reports in 4 seconds, determine tire wear, braking distance, and other conditions based on inspection data, and provide tire maintenance, replacement, and four-wheel alignment recommendations.

Cases



Auto Dealership



Vehicle Inspection Station



Auto Repair Shop



Auto Fleet

WA861 PRO

3D Wheel Aligner



Scan for more information

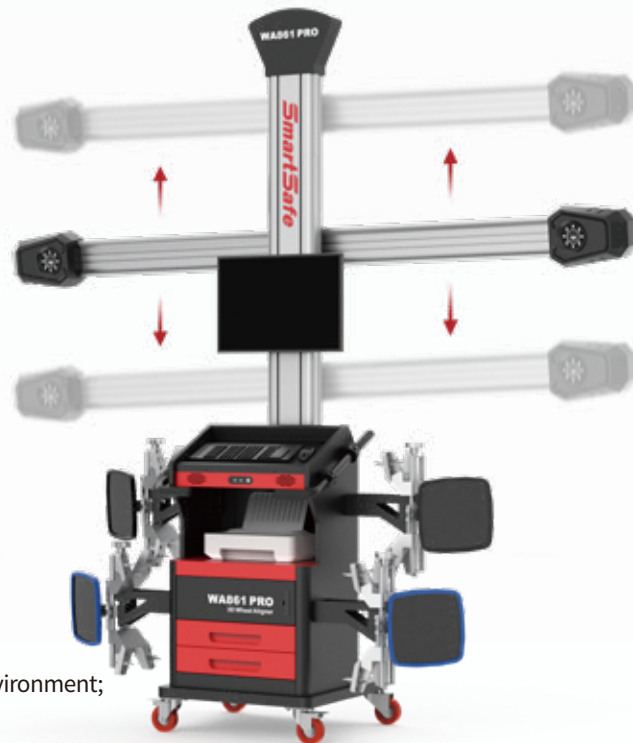
WA861 PRO is a mobile device that uses 3D imaging technology and intelligent adaptive tracking system to accurately collect four-wheel positioning data of vehicles.

Beam Automatic Tracking System

5 Million Pixel Industrial Camera

50,000+ Vehicle Model Database

8-12cm Rolling Compensation



Features

1. 50000+ global vehicle model database, lifetime free upgrade;
2. 5 million pixel industrial camera, easily adapt to a variety of lighting environment;
3. 8-12cm rolling compensation, saving time and effort;
4. Adaptive tracking system, freely adjust the operating space under the chassis, can be expanded to adapt to small scissors and two post lift;
5. The whole machine is movable and can be shared by multiple stations, which improves the space utilization rate of the repair shop;
6. When the beam is raised or lowered, it will automatically stop when encountering obstacles to protect the safety of personnel and equipment.

Functions

1. **Four-wheel alignment measurement:** It supports standard measurement and quick measurement and can measure key parameters such as toe, camber, caster, kingpin inclination, and thrust angle. Supports additional measurements such as wheel base, wheel track, axle offset, wheel offset, diagonal, center offset, etc.
2. **Intelligent self-adaptive tracking system:** automatically track the target, and adjust the height of the beam adaptively according to the height of the target;
3. **Database:** supports positioning data of 50,000+ global vehicle models, and supports user-defined database;
4. **Test report:** support measurement report saving and printing;
5. **Compatible with multiple platforms:** suitable for four-post lifts, large scissors lifts, small scissors lifts, two-post lifts and trenches;
6. **Multi-station sharing:** the whole machine is moveable, which is convenient for multi-station sharing;
7. **Dual-screen display:** Support dual-screen display at the same time, an optional secondary screen is required.

Parameters

Display Accuracy	1'/0.01/0.1mm	Kingpin Inclination	±6'
Toe	±2'	Trust Angle	±2'
Camber	±2'	Wheel Track	±2mm
Caster	±4'	Wheel Base	±2mm

WA861

3D Wheel Aligner



Scan for more information

WA861 is a classic mobile device that uses 3D imaging technology to accurately collect four-wheel positioning data of vehicles.

Multi-Station Sharing

High-Definition Industrial Camera

50,000+ Vehicle Model Database

10-15cm Rolling Compensation



Features

1. 50000+ global vehicle model database, lifetime free upgrade;
2. 10-15cm rolling compensation, saving time and effort;
3. The height of the beam can be adjusted manually, adapting to various maintenance environments, and does not need to be re-calibrated;
4. The whole machine is movable and can be shared by multiple stations, which improves the space utilization rate of the repair shop;

Functions

1. **Four-wheel alignment measurement:** It supports standard measurement and quick measurement and can measure key parameters such as toe, camber, caster, kingpin inclination, and thrust angle. Supports additional measurements such as wheel base, wheel track, axle offset, wheel offset, diagonal, center offset, etc.
2. **Database:** supports positioning data of 50,000+ global vehicle models, and supports user-defined database;
3. **Test report:** support measurement report saving and printing;
4. **Compatible with multiple platforms:** suitable for four-post lifts, large scissors lifts and trenches;
5. **Multi-station sharing:** the whole machine is moveable, which is convenient for multi-station sharing;
6. **Dual-screen display:** Support dual-screen display at the same time, an optional secondary screen is required.

Parameters

Display Accuracy	1'/0.01/0.1mm	Kingpin Inclination	±6'
Toe	±2'	Trust Angle	±2'
Camber	±2'	Wheel Track	±2mm
Caster	±4'	Wheel Base	±2mm

WA861 LITE

3D Wheel Aligner



Scan for more information

WA861 LITE is a classic stationary device that uses 3D imaging technology to accurately collect four-wheel positioning data of vehicles.

- Beam Manual Height Adjustment**
- High-Definition Industrial Camera**
- 50,000+ Vehicle Model Database**
- 10-15cm Rolling Compensation**



Features

1. 50000+ global vehicle model database, lifetime free upgrade;
2. 10-15cm rolling compensation, saving time and effort;
3. The height of the beam can be adjusted manually, adapting to various maintenance environments, and does not need to be re-calibrated;
4. Classic stationary design, cost-effective choice.

Functions

- 1. Four-wheel alignment measurement:** It supports standard measurement and quick measurement and can measure key parameters such as toe, camber, caster, kingpin inclination, and thrust angle. Supports additional measurements such as wheel base, wheel track, axle offset, wheel offset, diagonal, center offset, etc.
- 2. Database:** supports positioning data of 50,000+ global vehicle models, and supports user-defined database;
- 3. Test report:** support measurement report saving and printing;
- 4. Compatible with multiple platforms:** suitable for four-post lifts, large scissors lifts and trenches;
- 5. Dual-screen display:** Support dual-screen display at the same time, an optional secondary screen is required.

Parameters

Display Accuracy	1'/0.01/0.1mm	Kingpin Inclination	±6'
Toe	±2'	Trust Angle	±2'
Camber	±2'	Wheel Track	±2mm
Caster	±4'	Wheel Base	±2mm

AC519+

A/C Service Station



Scan for more information

AC519+ is a fully automatic intelligent automobile air-conditioning maintenance equipment suitable for fuel vehicles, pure electric vehicles and hybrid vehicles. It integrates functions such as disassembly-free cleaning, refrigerant recovery, filling, vacuuming, etc. It can effectively improve problems such as poor air-conditioning cooling effect, heavy compressor load, etc.

- Applicable to fuel vehicles, BEV, EVs and hybrid vehicles**
- Android operating system, 10.1-inch touch screen**
- New pipeline logic patent design**
- Support ST13 terminal remote control**
- Support PAG/POE refrigeration oil, UV detection liquid**



Features

1. Equipped with automobile refrigerant model database, the database is updated free of charge.
2. Supports two refrigerants: R134A or R1234YF.
3. Support filling of PAG refrigeration oil, POE refrigeration oil and UV detection fluid.
4. The vehicle air conditioning pipeline can be leak tested and the leak point can be located by adding UV detection liquid.
5. 128L/min dual-stage vacuum capacity, significantly boosts work efficiency.
6. The automatic mode can complete operations such as cleaning, recycling, vacuuming, filling refrigeration oil, and refrigerant with one click. Each function can also be executed independently.
7. Built-in Android system, supports ST13 terminal remote control.

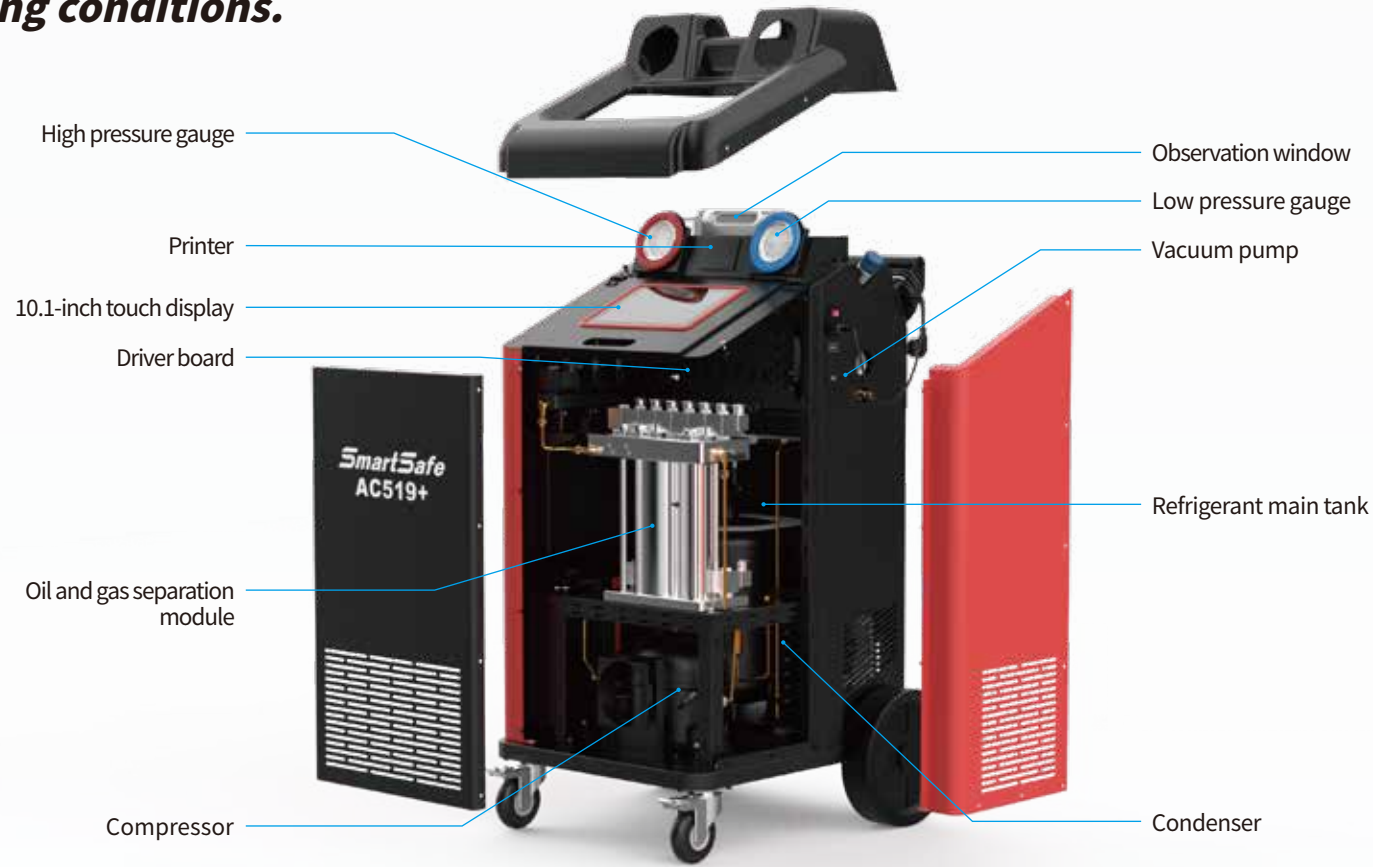
Functions

- 1. Air-conditioning pipeline cleaning:** Clean the air-conditioning pipelines, remove sludge, powder and other impurities inside the pipelines, replace the refrigeration oil more thoroughly, improve compressor lubrication, and improve the refrigeration performance of the air-conditioning system.
- 2. Refrigerant recovery:** The refrigerant in the automobile air conditioning system is purified and regenerated and then recycled into the working tank to meet the standards for reuse.
- 3. Vacuuming:** Achieve vacuuming of air conditioning pipelines and equipment pipelines.
- 4. Leakage detection:** The vehicle air conditioning pipeline can be leaked and the leak point can be located by adding UV detection liquid.
- 5. Refrigeration oil filling:** Supports manual/automatic filling, and realizes intelligent and precise filling through the built-in electronic scale.
- 6. Refrigerant filling:** Add refrigerant to the vehicle according to the set filling amount.
- 7. Automatic mode:** According to the set parameters, automatically perform cleaning, recovery, vacuuming, filling of refrigeration oil, and inject refrigerant and other operations.
- 8. Database:** Equipped with automobile refrigerant model database, supports database calling, no manual setting is required.
- 9. Print:** Supports printing of device execution results.

Parameters

Power supply	AC110V/AC220V 50Hz/60Hz	Electronic scale accuracy	±10g
Power	1000W	Compressor capacity	1/2HP
Working environment temperature	10~50°C	Vacuum pump capacity	128L/min for 50Hz, 142L/min for 60Hz
Display	10.1-inch touch screen	Working tank capacity	22kg
Oil bottles	4 (PAG, POE, UV, USED)	Filter handling capacity	120kg
Electronic scales	5 (main tank, PAG, POE, UV, USED)	Product size	1135mm(H)×660mm(D)×530mm(W)

The new patented pipeline logic design and scientifically integrated oil and gas separation module bring more efficient and stable working conditions.








AC519

A/C Service Station



Scan for more information

AC519 is a fully automatic intelligent automobile air conditioning maintenance equipment that integrates functions such as disassembly-free cleaning, refrigerant recovery, filling, and vacuuming. It can effectively improve the problems of poor air conditioning cooling effect, large compressor load, high noise, and high fuel consumption.

-  **More scientific spatial structure layout**
-  **New integrated oil and gas separation module**
-  **Efficient and stable pipeline logic patent**
-  **Clearer control logic and user experience**
-  **Support for leak detection**



Features

1. Equipped with automobile refrigerant model database, no manual setting is required.
2. Supports two refrigerants: R134A or R1234YF.
3. It has forward, reverse, and pulse cleaning functions, and the cleaning effect is obvious good.
4. The automatic mode can complete operations such as cleaning, recycling, vacuuming, filling refrigeration oil, and refrigerant with one click. Each function can also be executed independently.
5. Built-in printer supports printing materials, working hours, and other information.

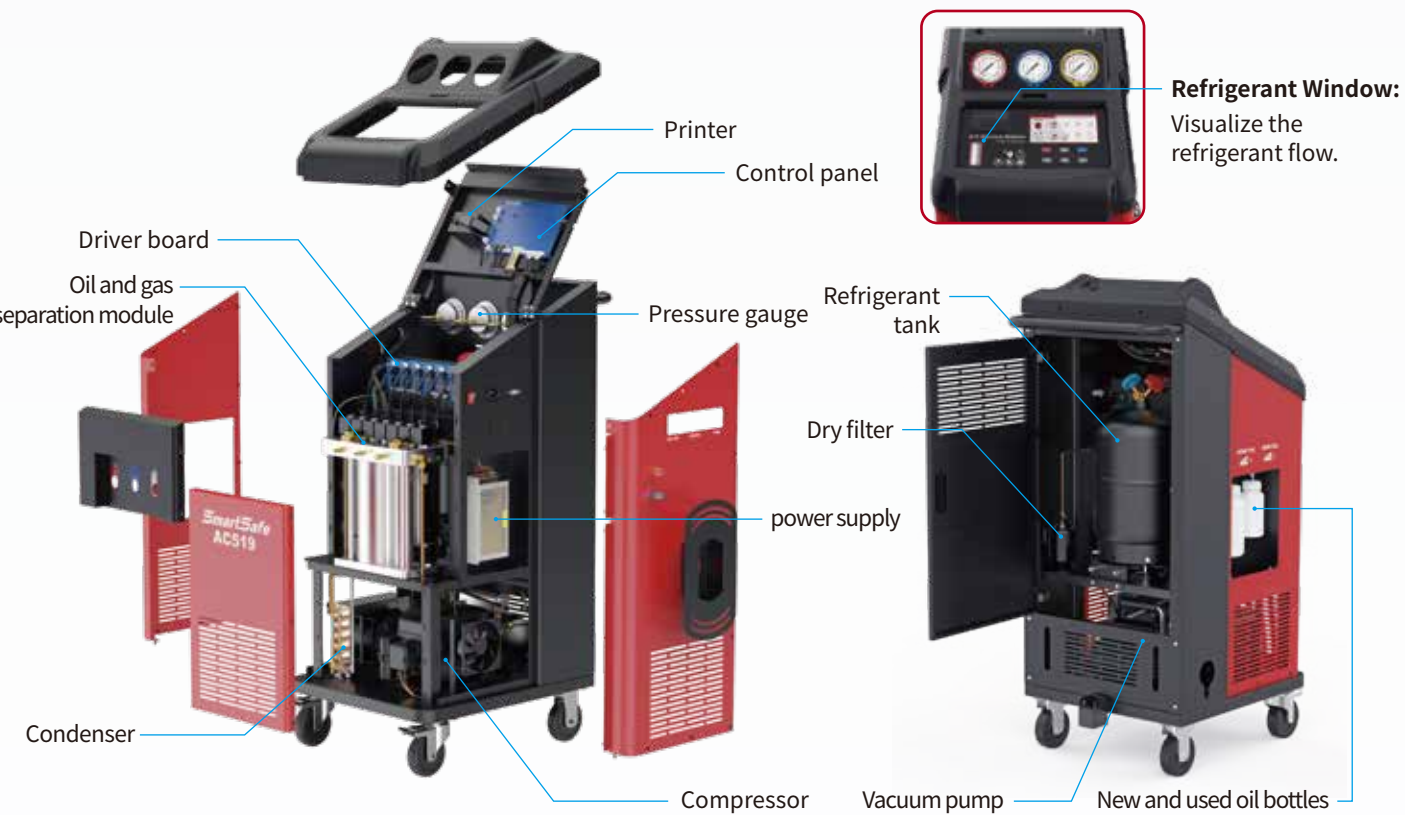
Functions

- 1. Air-conditioning pipeline cleaning:** Clean the air-conditioning pipelines, remove sludge, powder and other impurities inside the pipelines, replace the refrigeration oil more thoroughly, improve compressor lubrication, and improve the refrigeration performance of the air-conditioning system.
- 2. Refrigerant recovery:** The refrigerant in the automobile air conditioning system is purified and regenerated and then recycled into the working tank to meet the standards for reuse.
- 3. Vacuuming:** Achieve vacuuming of air conditioning pipelines and equipment pipelines.
- 4. Refrigeration oil filling:** supports manual/automatic filling, and realizes intelligent and precise filling through the built-in electronic scale.
- 5. Refrigerant filling:** Add refrigerant to the vehicle according to the set filling amount.
- 6. Leak detection:** Vacuum the equipment to maintain pressure, through the built-in pressure sensor, observe the pressure changes, if the pressure drops more than a certain value, it indicates that there is a leak in the system.
- 7. Automatic mode:** According to the set parameters, automatically perform cleaning, recovery, vacuuming, filling of refrigeration oil, and Inject refrigerant and other operations.
- 8. Database:** Equipped with automobile refrigerant model database, supports database calling, no manual setting is required.
- 9. Print:** Supports printing of device execution results.

Parameters

Power supply	AC110V/AC220V 50Hz/60Hz	Working tank capacity	12kg
Power	700W	Compressor capacity	3/8HP
Working temperature	10~50°C	Product Size	1150mm(H)x644mm(D)x480mm(W)
Display	7-inch touch screen	Package Size	1292mm(H)x707mm(D)x585mm(W)
Electronic scale accuracy	±10g	Net Weight	82kg
Filter handling capacity	60kg	Gross Weight	110kg
Vacuum pump capacity	D42L/Min,5Pa(for 220V); 50L/Min,5Pa (for 110V)		

The new patented pipeline logic design and scientifically integrated oil and gas separation module bring more efficient and stable working conditions.








CNC605+

GDI/PIEZO Injector Cleaner & Tester



Scan for more information

CNC605+ is a cleaning and testing equipment suitable for piezoelectric (140V), GDI (65V/12V) and conventional fuel injectors. It uses ultrasonic cleaning technology combined with microprocessor oil pressure control technology to simulate various engine working conditions and clean and test automobile fuel injectors.

-  **Adaptable to all voltage types of injectors (PIEZO, GDI, conventional fuel injectors)**
-  **Low resistance and high precision resistance test**
-  **Ultrasonic strong cleaning**
-  **Simulated working condition test at safe oil pressure**
-  **Enlarged glass tube viewing windows**



Features

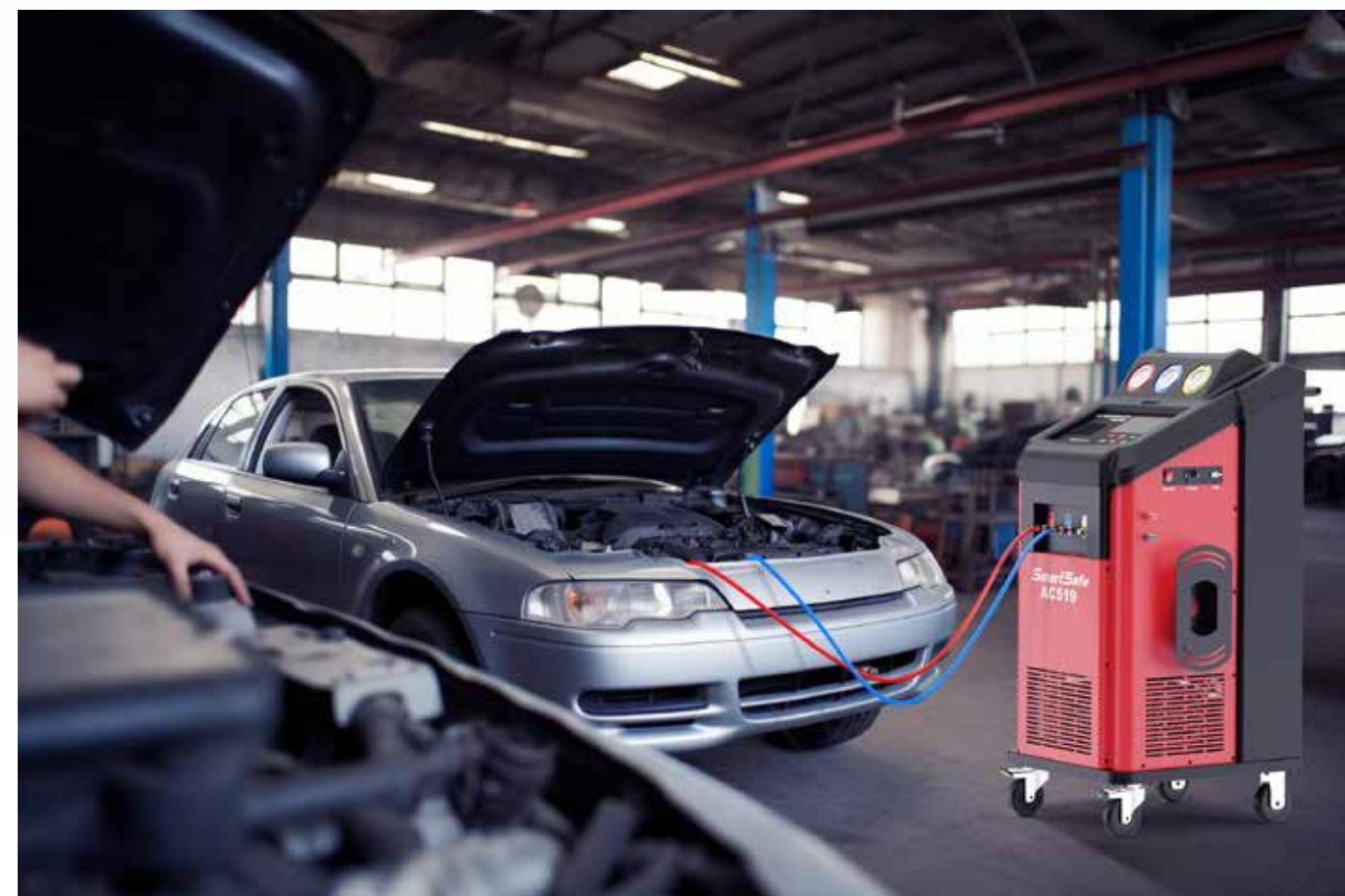
1. Support the cleaning and testing of all types of injectors (PIEZO, GDI, conventional injectors) under safe oil pressure.
2. The use of ultrasonic strong cleaning technology can completely remove carbon deposits on the fuel injector and filter deposits.
3. Utilizes microcomputer automatic control technology for automatic control of the cleaning and testing process, and real-time monitoring of the key performance of the fuel injectors.
4. Equipped with various non-dismantle cleaning connectors, capable of non-dismantle cleaning and maintenance for multiple vehicle models.
5. Optional side-feed injector kit available.
6. Through simulating engine operating conditions, comprehensively tests various aspects of the fuel injector's performance.
7. Equipped with a 7-inch color screen, the display is more intuitive and the operation is more convenient.

Functions

- 1. Working mode selection:** Can select EFI (12V), GDI (65V) or PIEZO (140V) operating mode based on the injector type.
- 2. Ultrasonic Cleaning:** Capable of simultaneously ultrasonic cleaning multiple injectors, effectively removing carbon buildup.
- 3. Low resistance testing:** Supports low-resistance injector testing, capable of detecting short circuits and open circuits in fuel injectors.
- 4. Uniformity/Spray Testing Function:** Detects the uniformity of fuel injection quantity for each injector and the spray atomization of the injector can be comprehensively and carefully observed using the background light.
- 5. Sealing Test Function:** Tests the sealing and leakage of injectors under system pressure.
- 6. Fuel Injection Quantity Detection Function:** Measures the fuel injection quantity of injectors under a constant 15-second injection condition.
- 7. Automatic Cleaning and Testing Function:** Under specific working parameters, realistically simulates injector testing under various conditions.
- 8. Reverse Flush Function:** For the uniformity/spray testing item, performs a reverse flush using a reverse flush adapter to remove internal injector contaminants and residues attached to the filter screen.
- 9. Non-Dismantle Cleaning Function:** Equipped with various non-dismantle cleaning adapters, allowing non-dismantle cleaning and maintenance for multiple vehicle models.

Parameters

Host power supply	AC110V/AC220V 50Hz/60Hz	Simulation speed range	100-9900rpm, step length 10rpm
Host power	500W	Pulse width	0.1-25ms, step length: 0.1ms
Fuel tank capacity	2500 ml	Resistance test accuracy	1%
Ultrasonic cleaning machine power	100W	Resistance test range	0-100Ω
Working pressure	0.1-9bar	Host size	412×398×550mm



CNC605

GDI Injector Cleaner & Tester



Scan for more information

CNC605 is a fuel injector cleaning and testing equipment suitable for GDI, EFI, and SFI systems. It can simulate engine operating conditions to simultaneously clean and test up to 6 fuel injectors.

- Compatible with Various Fuel Injectors (GDI, EFI, SFI...)**
- Deep Ultrasonic Cleaning**
- Automatic Oil Drain Control**
- Simulated Operating Condition Testing**



Features

1. Supports cleaning and testing of GDI, EFI, and SFI fuel injectors;
2. Utilizes ultrasonic intensive cleaning technology to thoroughly remove carbon deposits and filter screen residues from the fuel injectors;
3. Utilizes microcomputer automatic control technology for automatic control of the cleaning and testing process, and real-time monitoring of the key performance of the fuel injectors;
4. Equipped with various non-dismantle cleaning connectors, capable of non-dismantle cleaning and maintenance for multiple vehicle models;
5. Through simulating engine operating conditions, comprehensively tests various aspects of the fuel injector's performance.

Functions

- 1. Working Mode Selection:** Can select GDI or EFI working mode based on the injector type.
- 2. Ultrasonic Cleaning:** Capable of simultaneously ultrasonic cleaning multiple injectors, effectively removing carbon buildup.
- 3. Uniformity/Spray Testing Function:** Detects the uniformity of fuel injection quantity for each injector and allows comprehensive observation of the injector spray pattern using background lighting.
- 4. Sealing Test Function:** Tests the sealing and leakage of injectors under system pressure.
- 5. Fuel Injection Quantity Detection Function:** Measures the fuel injection quantity of injectors under a constant 15-second injection condition.
- 6. Automatic Cleaning and Testing Function:** Under specific working parameters, realistically simulates injector testing under various conditions.
- 7. Reverse Flush Function:** For the uniformity/spray testing item, performs a reverse flush using a reverse flush adapter to remove internal injector contaminants and residues attached to the filter screen.
- 8. Non-Dismantle Cleaning Function:** Equipped with various non-dismantle cleaning adapters, allowing non-dismantle cleaning and maintenance for multiple vehicle models.

Parameters

Power Supply	AC110V/AC220V 50Hz/60Hz	Revolutions Per Minute	100~9900rpm Step length 100rpm
Main Engine Power	350W	Pulse Width	0.5~25ms Step length 0.1ms
Ultrasonic Cleaning Power	100W	Timer Range	1~30min
Fuel Pressure	0.1~10 bar	Tank Capacity	3L
Air Inlet Pressure	5~8 bar	Size	442×490×533mm

CNC603

Injector Cleaner & Tester



Scan for more information

CNC603 is a fully automatic automotive fuel injector cleaning and testing equipment that can simulate engine operating conditions to simultaneously clean and test up to 6 fuel injectors.

- Automatic Oil Drain Control**
- Suitable for Multiple Injectors**
- Deep Ultrasonic Cleaning**
- Simulated Operating Condition Testing**



Features

1. Utilizing ultrasonic intensive cleaning technology, it can thoroughly eliminate carbon buildup and filter screen deposits from the fuel injectors;
2. Utilizing microcomputer automatic control technology, it can enable automatic control of the cleaning and testing process, and real-time monitoring of the key performance of the fuel injectors;
3. Equipped with various non-dismantle cleaning connectors, it can perform non-dismantle cleaning and maintenance for multiple vehicle models;
4. By simulating engine operating conditions, it comprehensively assesses various aspects of the fuel injector's performance.

Functions

- 1. Ultrasonic Cleaning:** Capable of simultaneously ultrasonic cleaning multiple injectors, effectively removing carbon buildup.
- 2. Uniformity/Spray Testing Function:** Detects the uniformity of fuel injection quantity for each injector and allows comprehensive observation of the injector spray pattern using background lighting.
- 3. Sealing Test Function:** Tests the sealing and leakage of injectors under system pressure.
- 4. Fuel Injection Quantity Detection Function:** Measures the fuel injection quantity of injectors under a constant 15-second injection condition.
- 5. Automatic Cleaning and Testing Function:** Under specific working parameters, realistically simulates injector testing under various conditions.
- 6. Reverse Flush Function:** For the uniformity/spray testing item, performs a reverse flush using a reverse flush adapter to remove internal injector contaminants and residues attached to the filter screen.
- 7. Non-Dismantle Cleaning Function:** Equipped with various non-dismantle cleaning adapters, allowing non-dismantle cleaning and maintenance for multiple vehicle models.

Parameters

Power Supply	AC110V/AC220V 50Hz/60Hz	Pulse Width	0.5~25ms Step length 0.1ms
Main Engine Power	300W	Timer Range	1~10min
Ultrasonic Cleaning Power	50W	Tank Capacity	3L
Revolutions Per Minute	10~9990rpm Step length 10rpm	Size	396×380×446mm

CNC603 LITE

Injector Cleaner & Tester



Scan for more information

CNC603 LITE is a semi-automatic automotive fuel injector cleaning and testing equipment that can simulate engine operating conditions to simultaneously clean and test up to 6 fuel injectors.

- One-key Manual Oil Discharge**
- Suitable for Multiple Injectors**
- Deep Ultrasonic Cleaning**
- Simulated Operating Condition Testing**



Features

1. Utilizing ultrasonic intensive cleaning technology, it thoroughly removes carbon deposits and filter screen residues from the fuel injectors;
2. Employing microcomputer automatic control technology, it allows for automated control of the cleaning and testing process, and real-time monitoring of the key performance of the fuel injectors;
3. Equipped with various non-dismantle cleaning adapters, it can perform non-dismantle cleaning maintenance for multiple vehicle models;
4. Through simulating engine operating conditions, it comprehensively assesses various aspects of the fuel injector's performance.

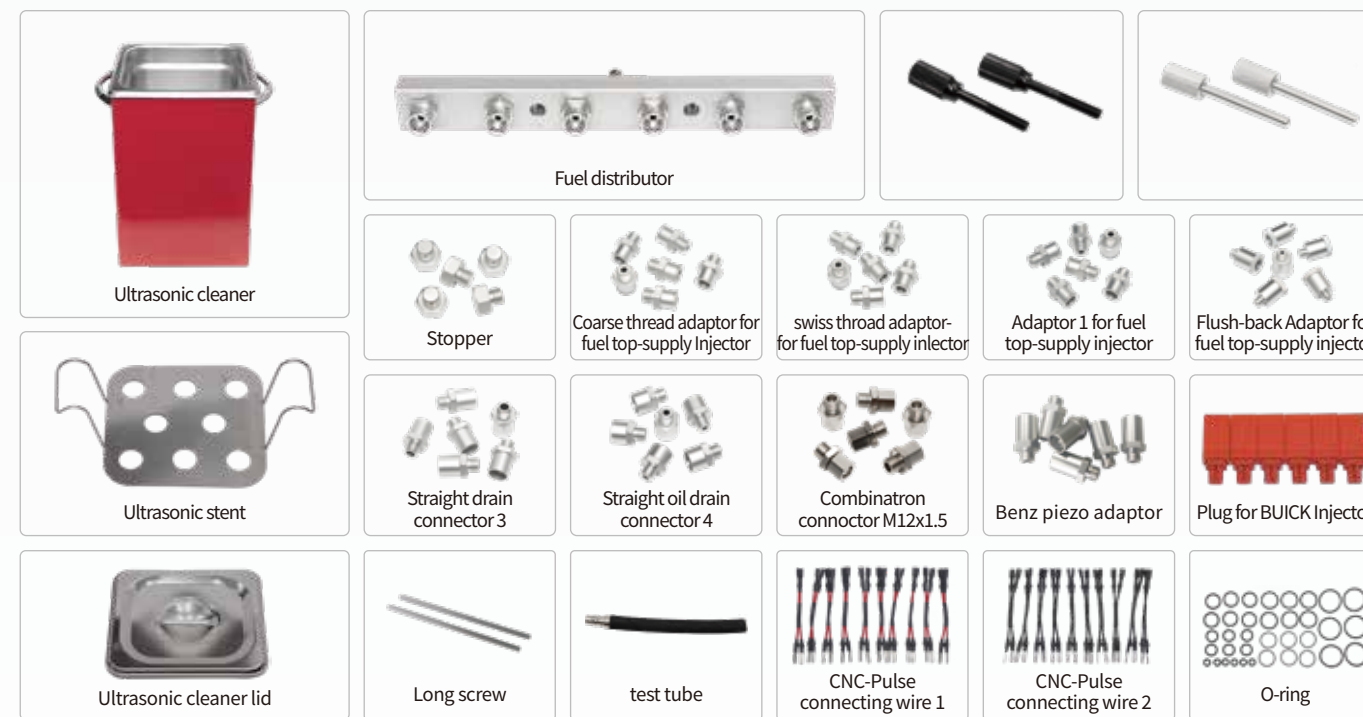
Functions

- 1. Ultrasonic Cleaning:** Capable of simultaneously ultrasonic cleaning multiple injectors, effectively removing carbon buildup.
- 2. Uniformity/Spray Testing Function:** Detects the uniformity of fuel injection quantity for each injector and allows comprehensive observation of the injector spray pattern using background lighting.
- 3. Sealing Test Function:** Tests the sealing and leakage of injectors under system pressure.
- 4. Fuel Injection Quantity Detection Function:** Measures the fuel injection quantity of injectors under a constant 15-second injection condition.
- 5. Automatic Cleaning and Testing Function:** Under specific working parameters, realistically simulates injector testing under various conditions.
- 6. Reverse Flush Function:** For the uniformity/spray testing item, performs a reverse flush using a reverse flush adapter to remove internal injector contaminants and residues attached to the filter screen.
- 7. Non-Dismantle Cleaning Function:** Equipped with various non-dismantle cleaning adapters, allowing non-dismantle cleaning and maintenance for multiple vehicle models.

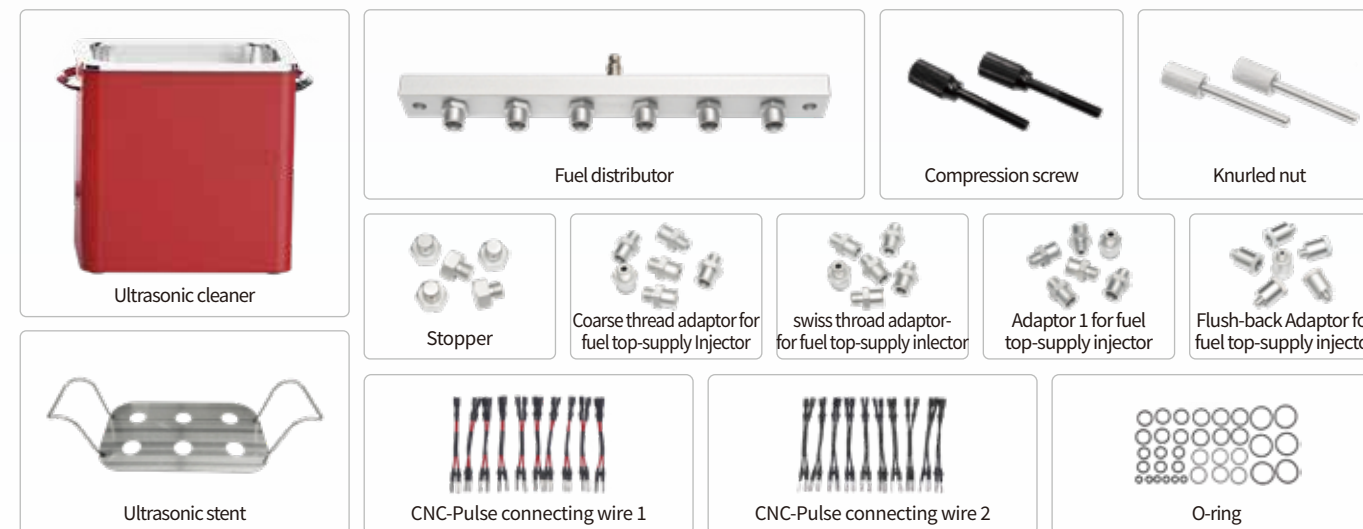
Parameters

Power Supply	AC110V/AC220V 50Hz/60Hz	Pulse Width	0.5~25ms Step length 0.1ms
Main Engine Power	240W	Timer Range	1~10min
Ultrasonic Cleaning Power	50W	Tank Capacity	2L
Revolutions Per Minute	10~9990rpm Step length 10rpm	Size	352×305×345mm

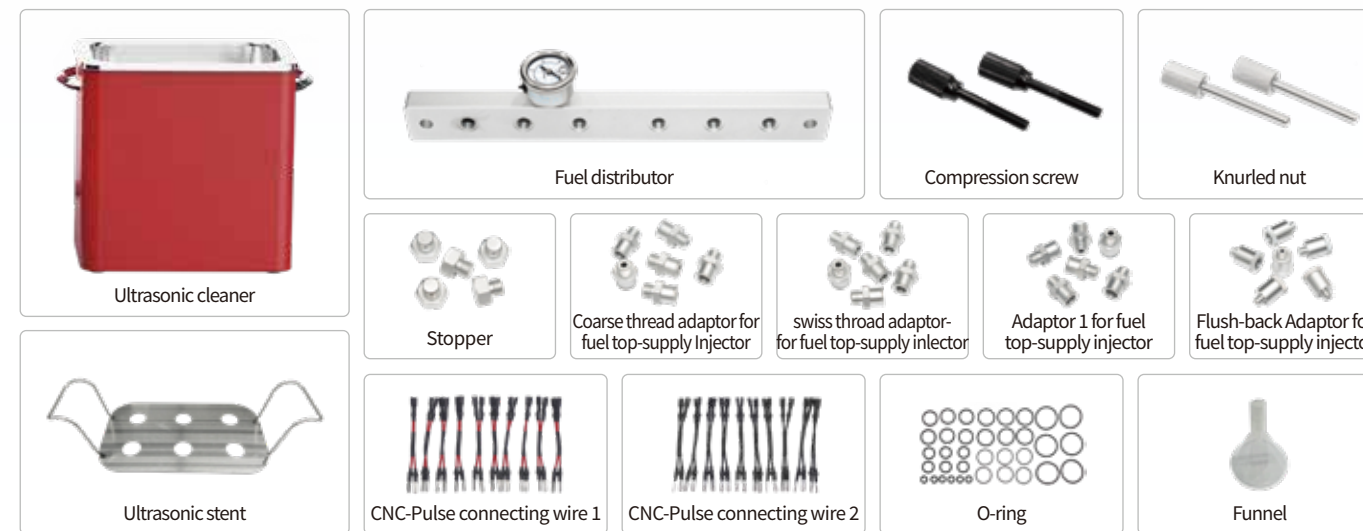
CNC605+ Accessories



CNC603 Accessories



CNC603 LITE Accessories



ATF601

Auto Transmission Cleaner and Fluid Exchanger



Scan for more information

ATF601 is an intelligent equipment that utilizes the pressure difference between the internal pressure of an automatic transmission gearbox and the pressure of the equipment pump during the operation of a car engine to perform cleaning and oil changing for the automatic transmission.

- Automatic Circulation Cleaning
- Precision Equal Amount Oil Change
- Quantitative Oil Adjustment
- Convenient Sampling of Used Oil



Features

1. Equipped with a convenient used oil sampling function;
2. Can be paired with a smart terminal for remote control;
3. Automatically identifies the transmission's inlet and outlet oil directions;
4. Equipped with various specialized adapters suitable for vehicles from different countries;
5. Supports the addition of cleaning agents for performing circulation cleaning of the automatic transmission;
6. Intelligent electronic control ensures automatic equal-volume replacement of new and used oil;
7. Provides an extensive vehicle model database, eliminating the need for manual oil quantity setting;
8. Features oil temperature display and oil filter replacement reminder function.

Functions

- 1. Used Oil Sampling Function:** Automatically collects used oil from the transmission.
- 2. Transmission Oil Level Adjustment:** Customizes oil level adjustments, refilling or draining the set transmission oil amount.
- 3. Transmission Oil Replacement:** Automatically identifies transmission inlet and outlet ports, enabling equal-volume replacement of transmission oil.
- 4. Transmission Oil Circulation Cleaning:** Allows the addition of cleaning agents for circulating cleaning of the automatic transmission.
- 5. New and Used Oil Drain:** Automatically drains transmission oil from new and used oil barrels in the equipment.
- 6. Custom Vehicle Data:** Supports the custom addition of maintenance data for commonly used automatic transmission models.
- 7. Printing:** Supports printing of equipment execution results, with customizable repair shop information.
- 8. Remote Control:** Supports connection to an Android tablet for remote control of equipment operation.

Parameters

Power Supply	AC110V/AC220V 50Hz/60Hz	Working Air Pressure	86~106kpa
Pump Power	150W	Filter Accuracy	5μm
Working Temperature	-10~50°C	Rate of Flow	≥2.2L/60s
Relative Humidity	<90%	Oil Tank	20L×2
Working Noise	<70db	Equal Exchange Accuracy	±100mL

ATF501

Auto Transmission Cleaner and Fluid Exchanger



Scan for more information

ATF501 is an equipment that utilizes the pressure difference between the internal pressure of an automatic transmission gearbox during the operation of a car engine and the pressure of the equipment pump to perform cleaning and oil changing for the automatic transmission.

- Automatic Recirculation Cleaning
- Precise Equal Volume Oil Change
- Quantitative Oil Quantity Adjustment
- Automatic Recognition of Oil Inlet and Outlet Direction



Features

1. Automatic identification of transmission inlet and outlet oil directions;
2. Equipped with a variety of specialized adapters suitable for vehicles from various countries;
3. Supports the addition of cleaning agents for performing circulation cleaning of the automatic transmission;
4. Intelligent electronic control ensures automatic equal-volume replacement of new and used oil;
5. Provides an extensive vehicle model database, eliminating the need for manual oil quantity setting;
6. Features oil temperature display and oil filter replacement reminder function.



Functions

- 1. Transmission Oil Level Adjustment:** Customizes oil level adjustments, refilling or draining the set amount of transmission oil.
- 2. Transmission Oil Replacement:** Automatically identifies transmission inlet and outlet ports, enabling equal-volume replacement of automatic transmission oil.
- 3. Transmission Oil Circulation Cleaning:** Allows the addition of cleaning agents for circulating cleaning of the automatic transmission.
- 4. New and Used Oil Drain:** Automatically drains automatic transmission oil from new and used oil barrels in the equipment.
- 5. Custom Vehicle Data:** Supports the custom addition of maintenance data for commonly used automatic transmission models.
- 6. Printing:** Supports printing of equipment execution results, with customizable repair shop information.

Parameters

Power Supply	AC110V/AC220V 50Hz/60Hz	Working Air Pressure	86~106kpa
Pump Power	150W	Filter Accuracy	5μm
Working Temperature	-10~50°C	Rate of Flow	≥2.2L/60s
Relative Humidity	<90%	Oil Tank	20L×2
Working Noise	<70db	Equal Exchange Accuracy	±100mL

ATF Series Standard Adapter (Compatible with ATF601/501)




Images	Part Number	Compatible Vehicle Models	Images	Part Number	Compatible Vehicle Models
	A01	General type (TOYOTA, MITSUBISHI SPACE WAGON GLXI) LEXUS ES300, HONDA and NISSAN car type		A11B	FORD LINCOLN, VOLVO
	Φ8			A12A	FORD
	Φ10	General type (TOYOTA, MITSUBISHI SPACE WAGON HONDA and NISSAN GLXI) LEXUS ES300		A12B	FORD CADILLAC
	Φ12			A13A	GENERAL MOTORS CHRYSLER
	A03A	One group CADILLAC, BMW 750 AT type 4HP-22 4HP-24 A421, MITSUBISHI V6,3000		A13B	
	A03B	One group CADILLAC, BMW 750 AT type 4HP-22 4HP-24 A42		A14A	FORD, VOLVO
	A05A			A14B	
	A05B	EUROPEAN Eg: New VECTRA, PASSAT		A15A	CHRYSLER Benxc200,s325i GENERAL MOTORS
	A06A			A15B	
	A06B	CHRYSLER GRAND VOYAGER, CHRYSLER 300		A16A	EUROPEAN
	A07A			A16B	
	A07B	EUROPEAN New VECTRA		A17A	EUROPEAN
	A08A			A17B	
	A08B	GENERAL MOTORS LINCOLN, CADILLAC		A20A	FORD
	A10A			A20B	
	A10B	FORD, eg: VOLVO, FORD CHRYSLER: DAIMLER-BENZ		A43	
	A11A	FORD LINCOLN, VOLVO		A44	

Note: Adapters with empty "Compatible Vehicle Models" in the above table are universal adapters that can be used on multiple vehicle models.

EOC70

engine oil extractor

Pneumatic pumping oil machine is a special equipment for the extraction and unified collection of engine waste oil in the process of vehicle maintenance. The tank body is made of cold-rolled steel plate and integrated tensile molding. The structure is stable and firm, and the appearance of high temperature spray plastic is durable.

-  Vacuum negative pressure oil pumping, faster and more thorough
-  The enlarged oil catch pan can adjust the height
-  Integrated cold-rolled steel tank body

Features

- The equipment can be moved to meet different working scenarios, with brake anti-wear silent casters, pushing and pulling light silky smooth;
- Increase the adjustable height of the oil tray to solve the problem of oil splashing when receiving oil at different heights; The oil rod contains a check valve to avoid possible oil return;
- The new vacuum negative pressure design makes the suction strong and quiet, high working efficiency, no waiting; To achieve 15-20s to complete the measuring cup vacuum;
- Toughened glass measuring cup, strong and durable, avoid the possibility of being polluted by oil for a long time, not easy to yellow, durable brightness, high temperature resistance [120° temperature];
- The body of the tank is made of cold-rolled steel plate, one body is stretched and formed, inlaid touch, robot assembly line welding, stable and firm welding;
- Suction pipe model diversification [Φ5-1Pcs, Φ6-2Pcs, Φ8-2Pcs];
- The measuring cup and tank body are equipped with two safety valves, which can protect the use of equipment and personal safety under the set pressure.

Functions

- Large oil pan oil:** move the equipment under the vehicle engine, align the oil pan with the engine oil drain hole, and unscrew the oil drain plug of the vehicle engine for oil discharge.
- Pump the measuring cup:** press the top valve of the measuring cup to the middle slot (the measuring cup is closed), insert the pump gun on the measuring cup, open the pump valve, and pump oil.
- Collection and discharge of oil storage tank:** After receiving oil, when the oil level in the measuring cup reaches the warning line at the same time, waste oil should be discharged to the oil tank, and then emptied by observing the position specified by the oil mirror of the tank body.
- Safety valve control setting value:** 1.2mpa, mainly to protect equipment and personal safety.
- Measuring cup pressure gauge:** standard rating [0.06mpa-0.08mpa], to ensure that oil pumping and oil discharge can work normally.

Parameters

Supply gas pressure	6~8bar	Oil temperature	40~80°C
Discharge pressure	0.6~0.8bar	Gasoline pipeline	5pcs
Gas consumption	150L/Min	Φ5*L700mm (Pvc, 1Pcs)	rate of pumping: 1.9 L/Min
Vacuum degree	0~65cmHg	Φ6*L700mm (Pvc, 2Pcs)	rate of pumping: 3.7 L/Min
Tank volume	70L	Φ8*L700mm (Pvc, 2Pcs)	rate of pumping: 6.5 L/Min
Measuring cup capacity	10L	carton size	530×530×990mm
Oil catch pan capacity	10L	Gross weight/Net weight	34kg/30.6kg
Machine height	1380mm	Container loading quantity	20GP-88pcs 40GP-220pcs



ST13

Intelligent Link Terminal



Scan for more information

ST13 is a super-intelligent connection terminal equipped with a customized Android system (AAOS) that supports four-wheel alignment, tire pattern detection, ADAS calibration, anti-theft programming, EV detection and maintenance equipment connection. It integrates a 13.3-inch high-definition large screen, high-performance Chip, large-capacity battery, and ultra-large storage integrated into one.

The world's first AAOS system deeply customized for automotive aftermarket scenarios

Supports application split screen and can open two applications at the same time

Pre-installed SmartSafe all device applications, supporting connection control

13.3 inch high-definition large screen, ultra-light and ultra-thin



Features

1. The world's first AAOS system that is deeply customized for automotive aftermarket scenarios. Each application is displayed by type. Applications are divided into equipment applications, basic applications and system applications;
2. Supports split-screen display of applications. During vehicle inspection, can query information via split-screen browser;
3. Intelligent connection with multiple devices, supporting four-wheel alignment, tire tread detection, ADAS calibration, anti-theft programming, EV detection and maintenance equipment;
4. A new reporting system that can combine multiple reports to generate a comprehensive report;
5. 13.3-inch large high-definition display screen, good display effect, a high-performance processor with large storage capacity, smooth use and good experience;
6. Brand-new industrial design, using new material technology, the body is ultra-light and ultra-thin.

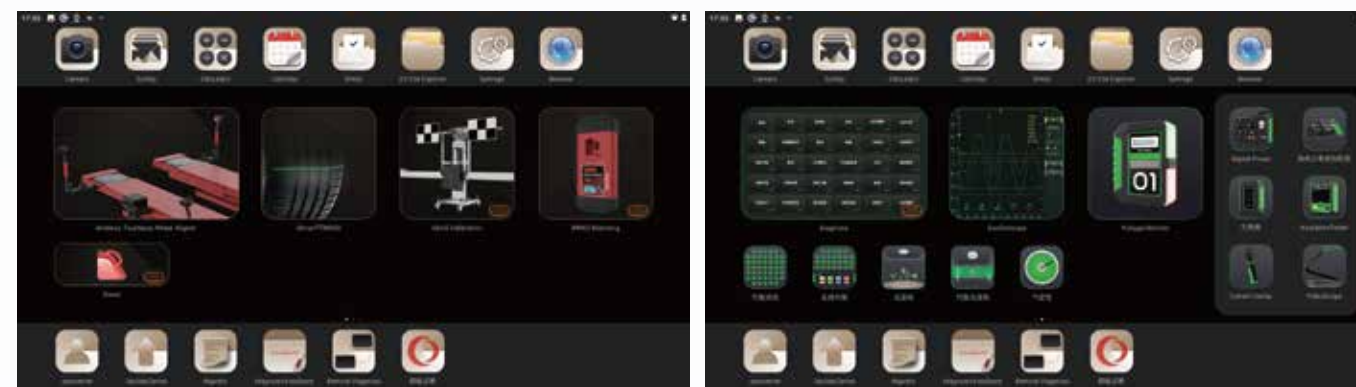
Functions

1. **User Center:** Supports registering an account, viewing connected devices, and activating diagnostic connectors.
2. **Upgrade Center:** Supports online upgrade of application software, vehicle model software, and firmware software, and can manage APP and vehicle model software.
3. **Report Center:** Supports viewing reports generated by all applications, and can filter and merge reports to generate comprehensive reports.
4. **Tire equipment application:** Supports four-wheel alignment, and tire tread detection functions, and can be connected to WA913 and TTM113.
5. **Automotive testing applications:** Supports ADAS calibration, anti-theft matching, maintenance functions, vehicle detection, remote collaboration, super remote, and usage feedback.
6. **Application of EV equipment and tools:** Supports equalization testing, wireless equalization, charge and discharge, equalized charge and discharge, air tightness testing, oscilloscopes, multimeters, voltmeters, digital power supplies, insulation tests, current clamps, and Videoscopes.
7. **System application:** Supports camera, gallery, calculator, calendar, email, file management, browser, and system settings.

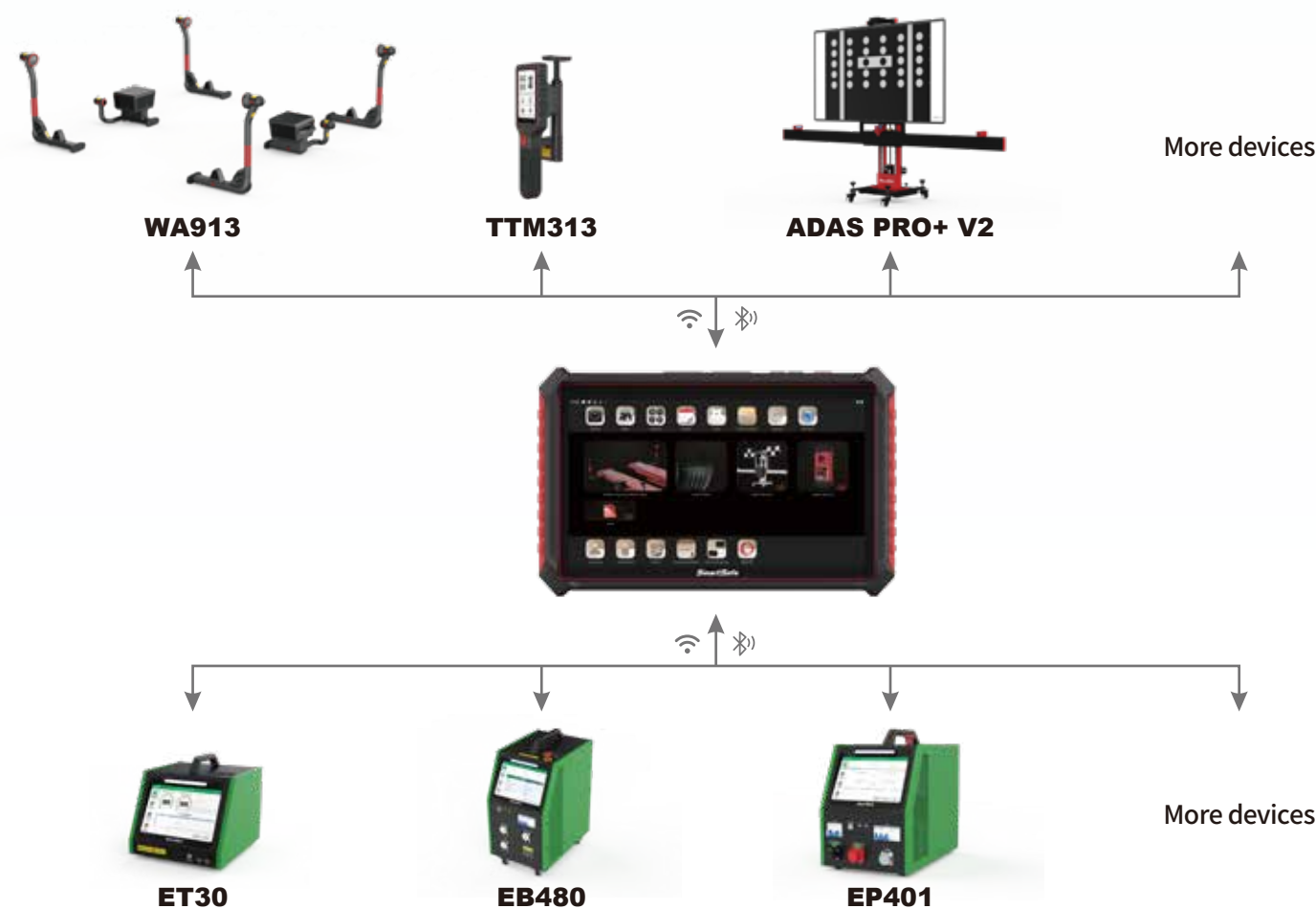
Parameters

CPU	2.0GHz	Wi-Fi	2.4GHz/5GHz dual-band dual Wi-Fi
Memory	8GB	Battery	13600mAh/3.8V
Storage	256GB	Interface	Type A, Type C, DC-IN, Mini HDMI
System	AAOS (Android 10)	Communication	Wi-Fi, Bluetooth, USB
Display	13.3inches (1920×1080)	Dimensions	355.4×227×34.45mm
Camera	Front 8MP, Rear 13MP		

Pre-installed SmartSafe customized the world's first AAOS system specifically for the automotive aftermarket industry scenario, pre-installed with all SmartSafe applications, and supports connection control



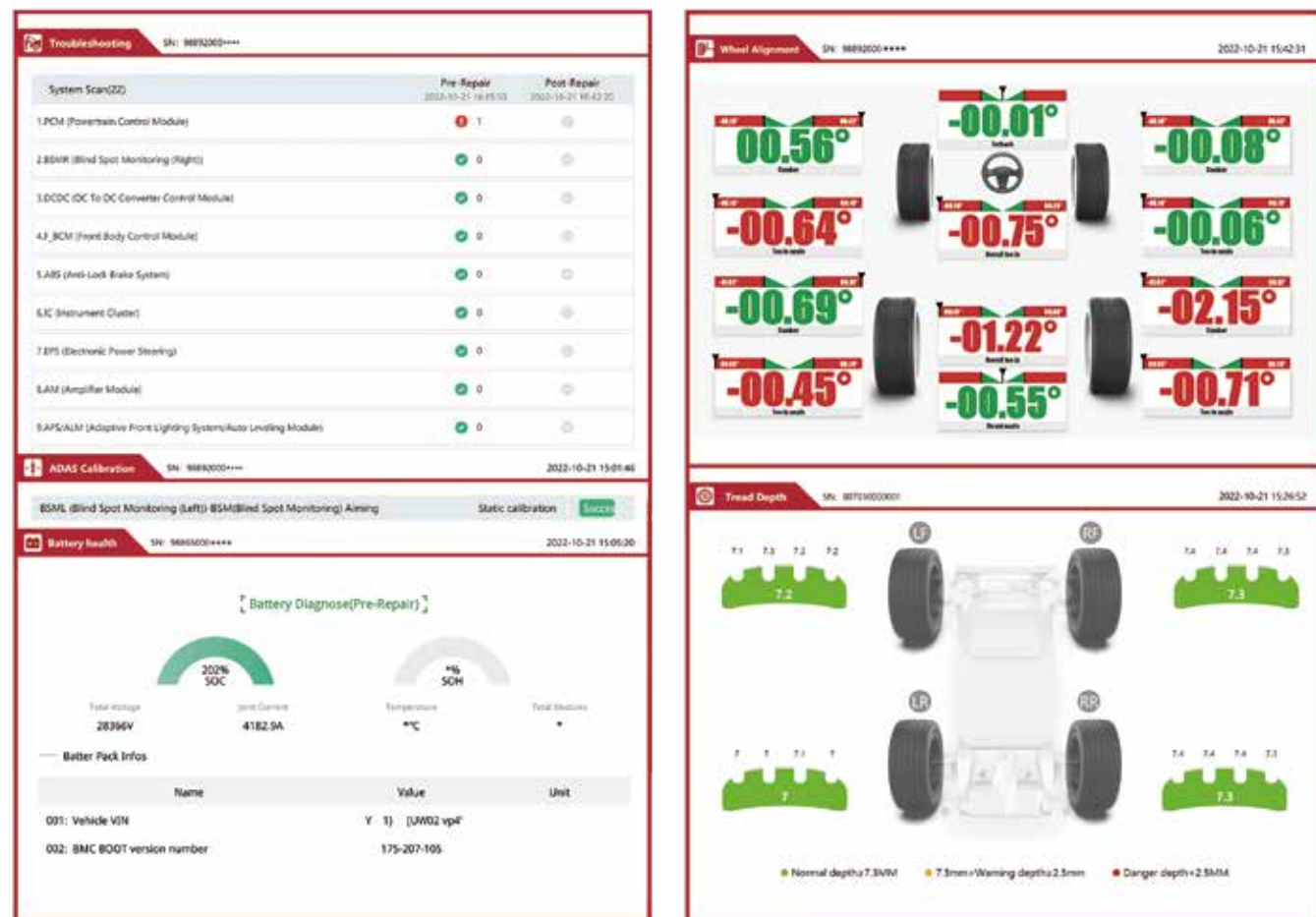
Multi-device smart connectivity



Supports application split screen and can open two applications at the same time



A new reporting system that can generate comprehensive reports from multiple reports







ST10

Intelligent Automotive Detection Tool



Scan for more information

ST10 is an automotive intelligent detection tool that supports ADAS calibration, anti-theft matching and programming, all system detection, and over 30 common maintenance functions. It also supports tire tread detection, oscilloscope, multimeter, current clamp, videoscope, and other expansion modules.

-  **ADAS Calibration**
-  **Car Anti-Theft**
-  **30+ Common Maintenance Functions**
-  **Various Optional and Extended Functions**



Features

1. Whole system detection, supporting detection functions such as DTC reading, DTC clearing, data stream reading, action test;
2. Provide the topological graph of the whole vehicle, clearly display the vehicle communication network and quickly locate the fault point;
3. Wi-Fi/Bluetooth dual-mode wireless VCI, supports DoIP/CAN FD communication protocol;
4. It can be used with SmartSafe's full series of ADAS calibration main racks, covering ADAS calibration of European, American, Asian and domestic passenger and commercial vehicles;
5. Used with G3 module, it supports the anti-theft matching function of many European, American, Asian and domestic models, and more brands are being updated continuously;
6. Support 34 common maintenance functions.

Functions

1. **ADAS calibration:** supports ADAS system calibration of many models in Europe, America, Asia and China, compatible with ADAS PRO+, ADAS MOBILE, ADAS LITE, ADAS RADAR 3IN1 and other equipment;
2. **Car anti-theft:** support the anti-theft matching function of many models in Europe, America, Asia, China, and support the anti-theft programmer function (optional IMMO G3);
3. **Vehicle detection:** support for code reading, code clearing, data stream reading, action testing, special functions and other full-system and full-function detections;
4. **Maintenance function:** support 30 common maintenance functions, such as maintenance light reset, throttle matching, brake pad replacement, steering angle reset, anti-theft matching, ABS bleeding injector coding, DPF regeneration, sunroof initialization, Gearbox matching, etc;
5. **Test report:** support the display of ADAS calibration, fault detection, data flow and other reports;
6. **Software upgrade:** Support online upgrades, including model software, firmware software, and APP software;
7. **Module expansion:** support tread detection, oscilloscope, multimeter, current clamp, insulation test, endoscope, and other functional expansions.

Parameters

CPU	2.0GHz Octa-core	Camera	Front 8MP、Post 13MP
System	Android	Interface	Type A、Type C
Memory	4GB	Battery	3.8V/9360mAh
Storage	128GB	Working Temperature	0~45°C
Display Size	10.1inches(1920x1200)	Storage Temperature	-20~70°C
Wi-Fi	2.4GHz/5GHz		

ST06

Intelligent Automotive Detection Tool



Scan for more information

ST06 is a handheld Intelligent Automotive Detection Tool that integrates battery testing, tire pressure system activation, learning, programming, matching, whole system detection, common maintenance functions, printing, and videoscope.

- Battery Inspection**
- Tire Pressure Monitoring System**
- System Detection**
- 26 Common Maintenance Functions**



Features

1. Support the full-system and full-function testing of more than 100 car brands in Europe, America, Asia and China;
2. It can test the health of all passenger car lead-acid batteries;
3. Support all 315MHz/433MHz tire pressure sensor activation, matching and learning, and read tire pressure data;
4. Support 26 common maintenance functions, support CAN FD\DoIP and other detection protocols;
5. The test report can be printed instantly through the built-in printer or shared by email.

Functions

- 1. Battery detection:** Supports two methods of in-vehicle detection and out-of-vehicle detection, supports battery health test, start-up test, charging test, battery barcode scanning, and battery matching;
- 2. Tire pressure detection:** Support 315MHz/433MHz tire pressure sensor activation and learning, support reading tire pressure, tire temperature, battery status and other information, and can read, copy, and write sensor ID values;
- 3. Vehicle detection:** support for code reading, code clearing, data stream reading, action testing, special functions and other full-system and full-function detections;
- 4. Maintenance function:** support 26 common maintenance functions, such as maintenance light reset, throttle matching, brake pad replacement, steering angle reset, anti-theft matching, ABS bleeding injector coding, DPF regeneration, sunroof initialization, Gearbox matching, etc.
- 5. Test report:** support the display of battery tests, tire pressure monitoring, fault detection, data flow and other reports;
- 6. Software upgrade:** support online upgrades, including model software, firmware software, and APP software.
- 7. Module expansion:** support the expansion of videoscope functions;
- 8. Report printing:** support printing reports through the built-in thermal printer.

Parameters

CPU	4 Core 2.0GHz	Camera	8MP
System	Android	Wi-Fi	2.4GHz/5GHz
Memory	4GB		DB15 diagnostic connection
Storage	64GB	Interface	Battery clip connector
Display Size	5.99 inch		USB Type A , USB Type C
Resolution	720×1440	Working Temperature	0~45°C
Battery Capacity	4500mAh/7.6V	Storage Temperature	-10~60°C

IMMO 801

Automotive Key & IMMO Programming Tool



Scan for more information

IMMO 801 is a professional automotive key & IMMO programming tool that integrates vehicle detection, common maintenance functions, remote control matching, key matching, anti-theft ECU matching, ECU reset, chip reading and writing, and car computer reading and writing. It is suitable for the automotive electronics industry, locksmiths, repair shops and other professional users.

- Anti-Theft Matching**
- Anti-Theft Programming**
- Vehicle Inspection**
- 26 Common Maintenance Functions**



Features

1. The perfect combination of detection equipment and anti-theft programmer, one machine with multiple functions, high cost performance;
2. Support the anti-theft matching function of many models in Asia, Europe, America and China, and more brands will continue to be launched;
3. Support 26 common maintenance functions;
4. Pop-up VCI connector compartment design, the connector is not easy to lose.

Functions

- 1. Anti-theft matching:** support learning, reset, matching, replacement and programming of IMMO, PEPS, EMS, ESCL and other control units;
- 2. Anti-theft programmer:** support anti-theft chip reading and writing, anti-theft ECU reading and writing, key matching and remote control matching and other functions;
- 3. Vehicle detection:** support for code reading, code clearing, data stream reading, action testing, special functions and other full-system and full-function detections;
- 4. Maintenance function:** support 26 common maintenance functions, such as maintenance light reset, throttle matching, brake pad replacement, steering angle reset, anti-theft matching, ABS bleeding injector coding, DPF regeneration, sunroof initialization, Gearbox matching, etc;
- 5. Test report:** Support the display of fault detection, data flow and other reports;
- 6. Software upgrade:** Support online upgrades, including model software, firmware software, and APP software.

Parameters

CPU	4 Core 1.8GHz	Resolution	1280×800
System	Android	Camera	8MP
Memory	4GB	Wi-Fi	2.4GHz/5GHz
Storage	64GB	Working Temperature	0~45°C
Display	8 inch	Storage Temperature	-10~60°C

IMMO G3

Immobilizer Programmer



Scan for more information

IMMO G3 is a special device for auto anti-theft programming used to read and write car key chip data, including EEPROM reading and writing, car MCU reading and writing, Mercedes-Benz infrared keys, generating special keys, BMW engine INS code reading, BMW CAS4+/FEM chip reading and writing, etc.

- Anti-Theft Type Recognition**
- Anti-Theft Password Reading**
- Key Matching**
- Remote Control Matching**
- Key Chip Reading and Writing**
- Anti-Theft Component Replacement**
- Chip Reading**
- Car Computer Reading and Writing**



Features

1. Powerful function, integrated key matching/copy, car anti-theft chip read-write, car computer read-write and other functions;
2. It can be used with a variety of SmartSafe detection tools, no binding, flexible use and wide adaptation range;
3. It can be used with IMMO PCBOX to operate on the computer terminal.

Functions

- 1. Car anti-theft:** Add Mercedes-Benz, BMW, Volkswagen Audi and other car series, Porsche anti-theft function and engine computer and gearbox cloning function of other car series;
- 2. Key matching:** add functions such as Mercedes-Benz infrared key, key imitation duplicator, key reading and writing, etc.

Parameters

Working Temperature	0~50°C	working current	500 mA
Interface	DB26, DB15, DCIN, DIY slot	Size	228x110x45.5mm
input voltage	12V DC		

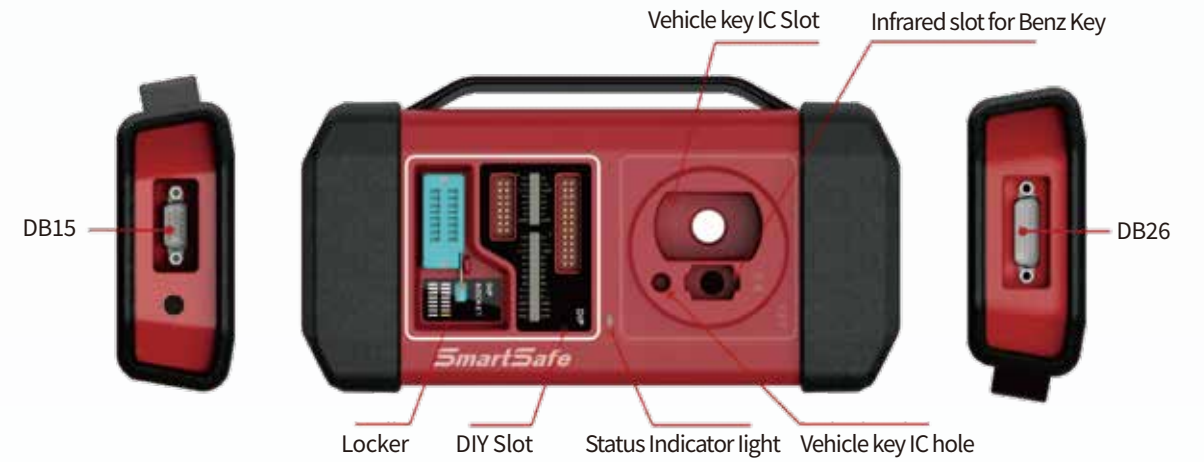
Key Matching

1. Key Matching
2. Remote control matching
3. Anti-theft component replacement
4. Anti-theft component Identification
5. Continuous updates

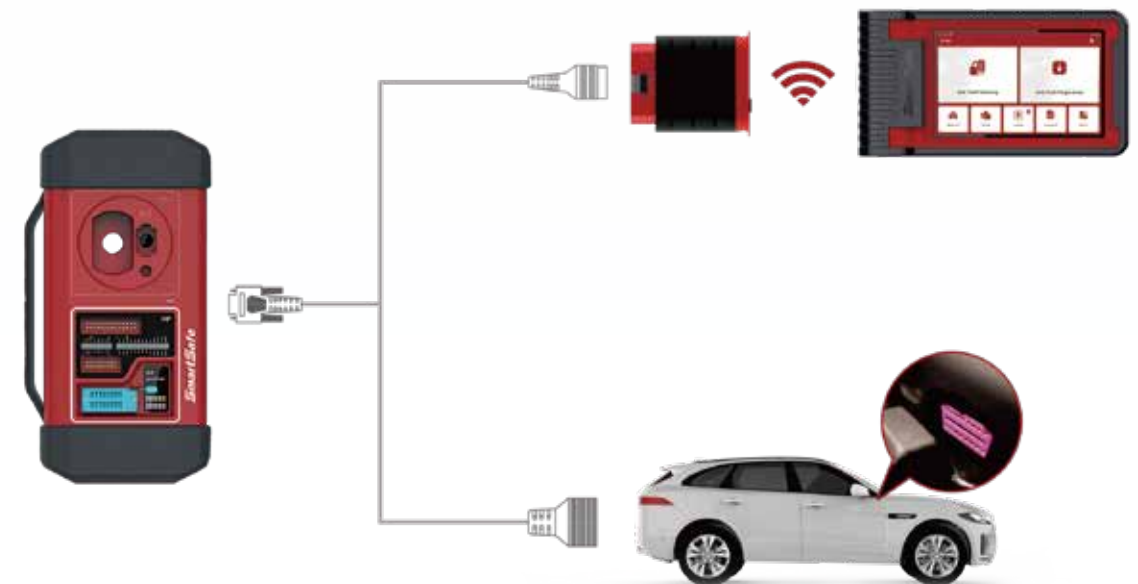
Chip Reading & Writing ECU Reading & Writing

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. EEPROM reading and writing 2. MCU reading and writing 3. CAS4+/FEMreading and writing 4. Anti-theft component replacement 5. Continuous updates | <ol style="list-style-type: none"> 1. Audi comfort computer replacement 2. Audi fifth-generation gearbox ECU replacement 3. VW/Audi fourth-generation UDS engine Change 4. VW/Audi fourth-generation MQB platform engine replacement 5. Continuous updates |
|--|---|

Product Function Zone



Anti-Theft Matching Wiring Diagram



CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration

EV1 EV Detection Tool

EV2 EV Maintenance Equipment

CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration

EV1 EV Detection Tool

EV2 EV Maintenance Equipment

IMMO G3BOX

IMMO PC Adaptor for G3



Scan for more information

IMMO G3BOX is an anti-theft PC adaptor designed to be used in conjunction with IMMO G3. It is used for backing up, storing, and cloning flash data and EEPROM data of the original vehicle's ECU and external ECUs.

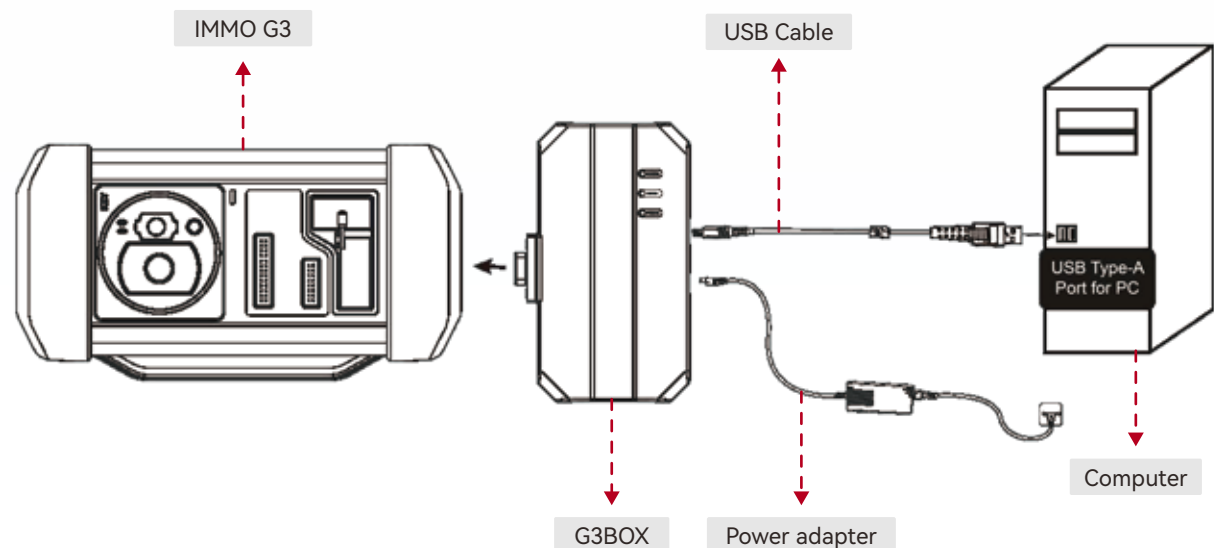
- Used in conjunction with G3, operated through computer software
- Read and write EEPROM and Flash data
- Support anti-theft deactivation and file verification
- Volkswagen, Audi, Porsche engine ECU data cloning



Functions

Used with IMMO G3 immobilizer programmer, use PC software to realize ECU cloning.

- Reading and writing ECU data:** support reading and writing ECU data through PC software;
- Anti-theft data processing:** Support the operation of anti-theft off and file verification in the software.



IMMO F3

IMMO PC Based ECU&TCU Programmer



Scan for more information

IMMO F3 is an anti-theft ECU module cloning device used for backing up, saving and cloning the flash data and EEPROM data of the original ECU and external ECU. IMMO F3 integrates the functions of IMMO G3 and PC BOX. It does not need to rely on Android-side detection equipment. It can be used independently to operate the engine and gearbox cloning functions. It is easy to connect, quick to respond, and easy to operate.

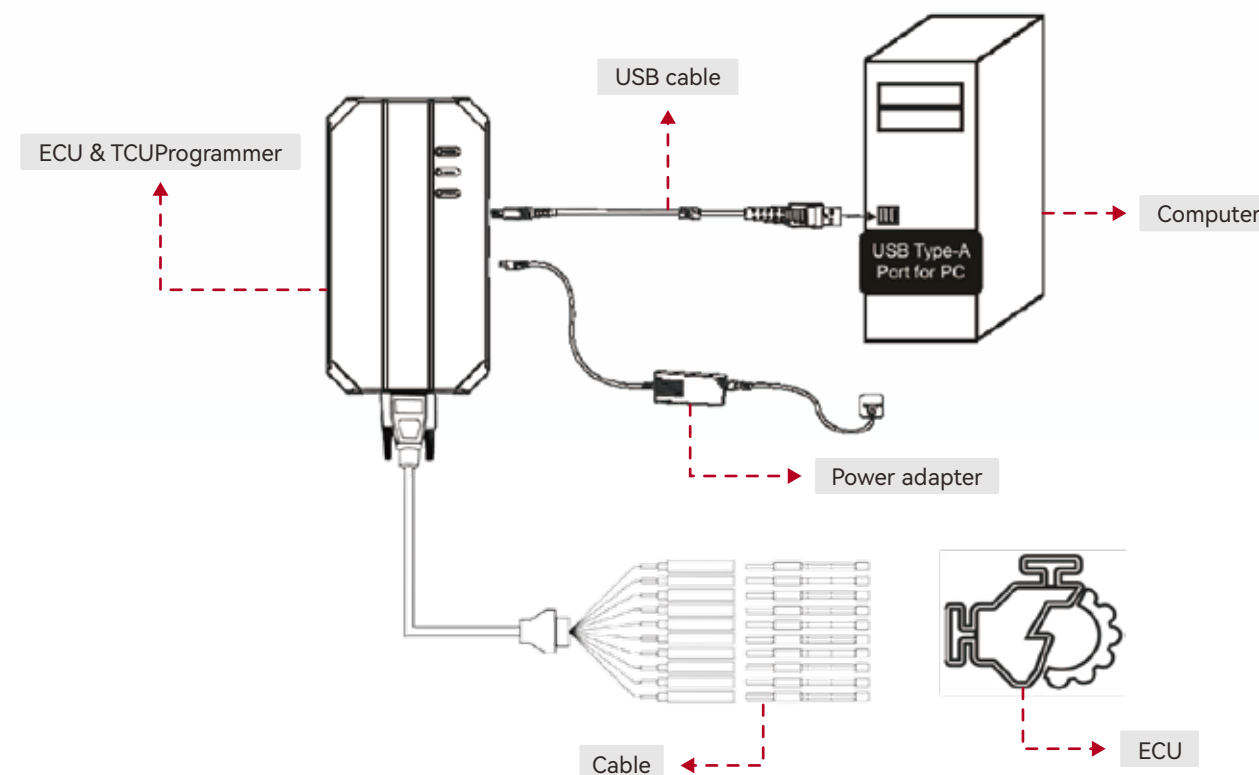
- Integrated IMMO G3 and G3BOX Functions
- Read and Write EEPROM and Flash Data
- Support Anti-Theft Deactivation and File Verification
- Volkswagen, Audi, Porsche Engine ECU Data Cloning



Functions

Use PC software to realize ECU cloning.

- ECU module cloning:** support ECU cloning of engine and gearbox;
- Anti-theft data processing:** operate anti-theft off and file verification.



ADAS PRO+ V2

Passenger Vehicle ADAS Calibration Equipment



Scan for more information

ADAS PRO+ V2 is a professional-grade passenger car ADAS calibration device equipped with a 75-inch high-definition LCD screen and a digital display of the front camera target. It can provide professional ADAS calibration solutions for automobile manufacturers, large automobile repair shops, and automotive glass shops.

Equipped with high-definition LCD screen and digital front camera targets

Centering and parallel can be completed in one minute

Laser ranging positioning, millimeter-level calibration accuracy

Compatible with ADAS series targets



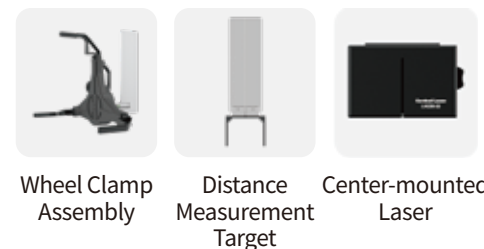
Features

1. Realize digital display of front camera targets, eliminate the installation steps of front camera target head, greatly improve ADAS calibration efficiency, save target storage space, and reduce target maintenance and transportation costs.
2. Equipped with a 75-inch high-definition LCD screen, 4K resolution, the digital target restores the physical target in 1:1 ratio.
3. Supports horizontal angle, front and back, left and right fine-tuning, electric lifting and manual fine-tuning of the beam, and can complete centering and parallelism in 1 minute.
4. Equipped with a millimeter-level laser rangefinder to ensure precise calibration.
5. The software provides graphic tutorials and step-by-step guidance.
6. Support output of comparison reports before and after calibration.

Functions

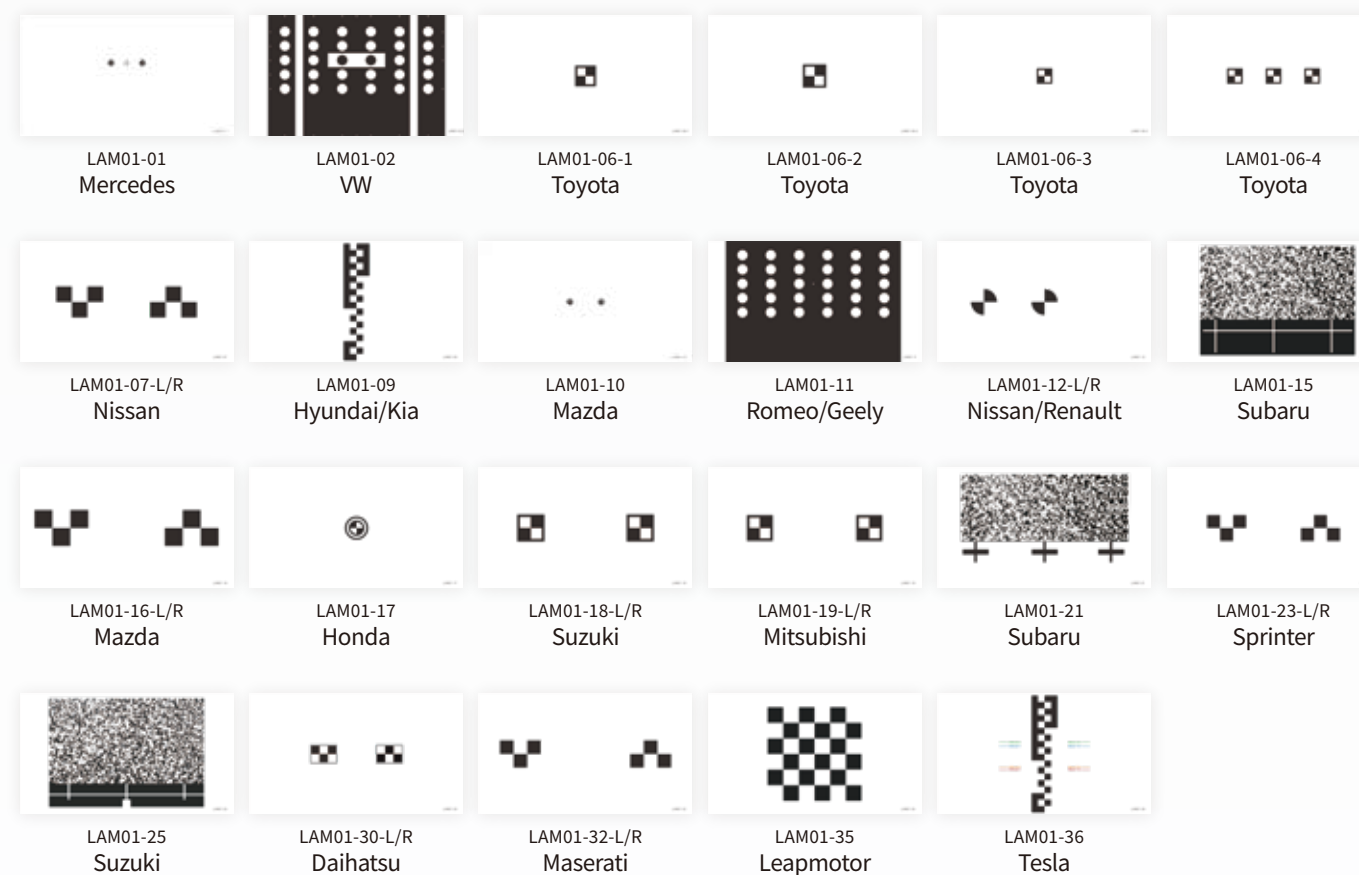
1. **Target digitalization:** Supports more than 30 front camera targets.
2. **Equipment fine-tuning:** Supports fine-tuning of front-to-back and left-to-right angles.
3. **Equipment lifting:** Supports manual and electric lifting modes, and the laser rangefinder located height.
4. **Centering and parallelism:** The laser rangefinder is used to achieve parallel positioning of the equipment and the vehicle, and the line laser is used to achieve center positioning of the equipment and the vehicle.
5. **Level adjustment:** Observe the level bubble and adjust the base knob to achieve level adjustment of the equipment.

Accessories



Wheel Clamp Assembly Distance Measurement Target Center-mounted Laser

ADAS PRO+ V2 Front Camera Electronic Targets



Electronic targets Switch on demand



ADAS PRO+

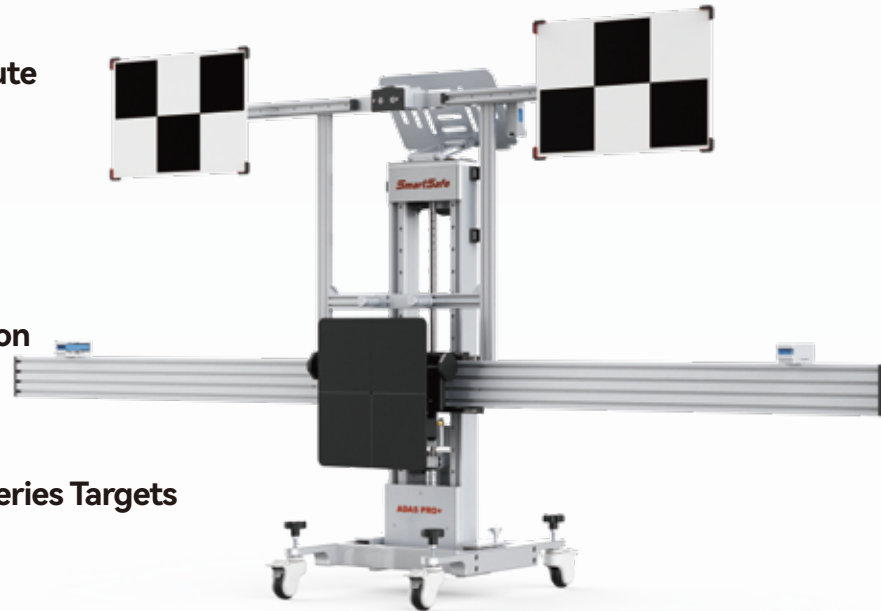
Passenger Vehicle ADAS Calibration Equipment



Scan for more information

ADAS PRO+ is an industry-leading professional ADAS system calibration equipment for passenger vehicles, which can provide professional ADAS calibration solutions for auto manufacturers, large auto repair shops and auto glass shops.

- Align Parallel in One Minute**
- Distance Measurement and Positioning by Laser**
- Millimeter-level Calibration Accuracy**
- Compatible with ADAS Series Targets**



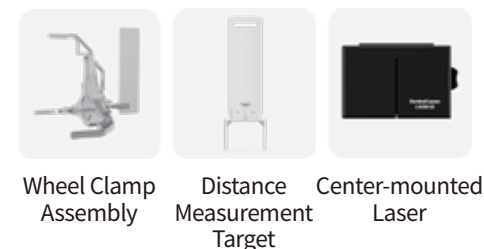
Features

1. Support horizontal angle, front and rear, left and right fine-tuning, electric lifting and lowering of the beam, the beam can also be manually raised and lowered, and the centering and paralleling can be completed in 1 minute;
2. Equipped with a millimeter-level laser rangefinder to ensure accurate calibration;
3. It can support the calibration of more than 95% of the models equipped with ADAS systems in the world, and keep updating;
4. Support LDW/ACC/AVM/NVS/BSD/RCW ADAS system calibration;
5. The software provides graphic tutorials and step-by-step guidance;
6. Support the output of comparison reports before and after calibration.

Functions

- 1. Multi-System Calibration:** Supports calibration for six major systems including LDW/ACC/AVM/NVS/BSD/RCW;
- 2. Multi-Vehicle Model Calibration:** Supports ADAS system calibration for over 90 vehicle brands in Europe, Americas, Asia, and China, with over 90 target models;
- 3. Device Fine-Tuning:** Supports fine-tuning in terms of front-back, left-right, and angles;
- 4. Device Elevation:** Supports both manual and electric elevation methods, using a laser rangefinder for height positioning;
- 5. Parallel Alignment:** Achieves parallel positioning between the device and the vehicle using a laser rangefinder, and center alignment using a line laser;
- 6. Level Adjustment:** Observe the bubble level, adjust the base knob, and achieve device leveling.

Accessories



Wheel Clamp Assembly Distance Measurement Target Center-mounted Laser

ADAS MOBILE

Passenger Vehicle ADAS Calibration Equipment



Scan for more information

ADAS MOBILE is a portable ADAS system calibration equipment for passenger vehicles, which can provide professional ADAS calibration solutions for auto glass shops, auto repair shops, mobile dealers and on-site auto repair service providers.

- Innovative Integrated Folding Design**
- Millimeter-level Calibration Accuracy**
- Guided Calibration Process**
- Compatible with ADAS Series Targets**



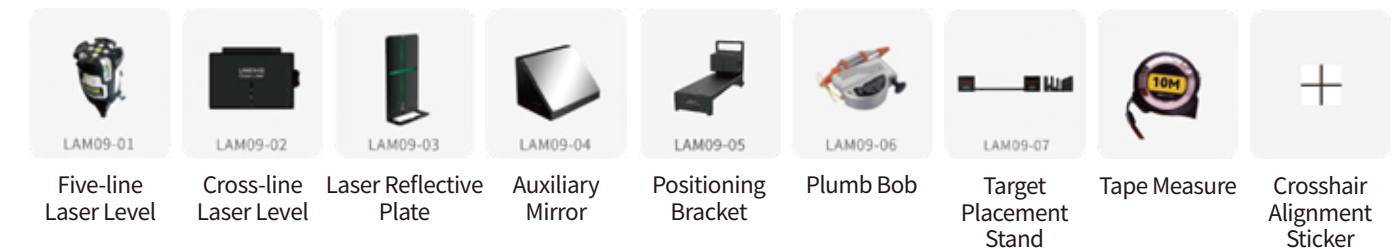
Features

1. Innovative full folding design, which can be placed in the trunk of a vehicle to meet mobile calibration scenarios;
2. It can support the calibration of more than 95% of the models equipped with ADAS systems in the world, and keep updating;
3. Support LDW/ACC/AVM/NVS/BSD/RCW ADAS system calibration;
4. The software provides graphic tutorials and step-by-step guidance;
5. Support the output of comparison reports before and after calibration.

Functions

- 1. Multi-System Calibration:** Supports calibration for six major systems including LDW/ACC/AVM/NVS/BSD/RCW;
- 2. Multi-Vehicle Model Calibration:** Supports ADAS system calibration for over 90 vehicle brands in Europe, Americas, Asia, and China, with over 90 target models;
- 3. Device Folding:** Supports full folding of the beam and base;
- 4. Device Fine-Tuning:** Supports angle fine-tuning;
- 5. Device Elevation:** Supports manual elevation adjustment, using a laser rangefinder for height positioning;
- 6. Parallel Alignment:** Achieves device parallel alignment using auxiliary accessories like a five-line laser;
- 7. Level Adjustment:** Observe the bubble level, adjust the base knob, and achieve device leveling.

Accessories



LAM09-01 Five-line Laser Level LAM09-02 Cross-line Laser Level LAM09-03 Laser Reflective Plate LAM09-04 Auxiliary Mirror LAM09-05 Positioning Bracket LAM09-06 Plumb Bob LAM09-07 Target Placement Stand Tape Measure Crosshair Alignment Sticker

ADAS LITE

Passenger Vehicle ADAS Calibration Equipment



Scan for more information

ADAS LITE is an economical ADAS system calibration equipment for passenger vehicles, which can provide professional ADAS calibration solutions for auto glass shops, auto repair shops, mobile dealers and on-site auto repair service providers.

- Innovative Alignment Solution
- Lightweight and Simple Structure
- High Cost-effectiveness
- Compatible with ADAS Series Targets



Features

1. Minimalist and detachable design, the whole equipment is light and can be operated by a single person, cost-effective choice;
2. It can support the calibration of more than 95% of the models equipped with ADAS systems in the world, and keep updating;
3. Support LDW/ACC/AVM/NVS/BSD/RCW ADAS system calibration;
4. The software provides graphic tutorials and step-by-step guidance;
5. Support the output of comparison reports before and after calibration.

Functions

1. **Multi-System Calibration:** Supports calibration for six major systems including LDW/ACC/AVM/NVS/BSD/RCW;
2. **Multi-Vehicle Model Calibration:** Supports ADAS system calibration for over 90 vehicle brands in Europe, Americas, Asia, and China, with over 90 target models;
3. **Device Folding:** Supports beam folding;
4. **Device Elevation:** Supports manual elevation adjustment, using a laser rangefinder for height positioning;
5. **Parallel Alignment:** Achieves device parallel alignment using auxiliary accessories like alignment assist lines;
6. **Level Adjustment:** Observe the bubble level, adjust the base knob, and achieve device leveling.

Accessories



ADAS ECO

Passenger Vehicle ADAS Calibration Equipment



Scan for more information

ADAS ECO is an economical ADAS system calibration device for passenger cars, which can provide professional ADAS calibration solutions for auto glass shops, repair shops, and mobile repair service providers.

- Cost-effectiveness
- Minimalist design, easy installation
- Detailed graphic guide for calibration
- Compatible with ADAS series targets



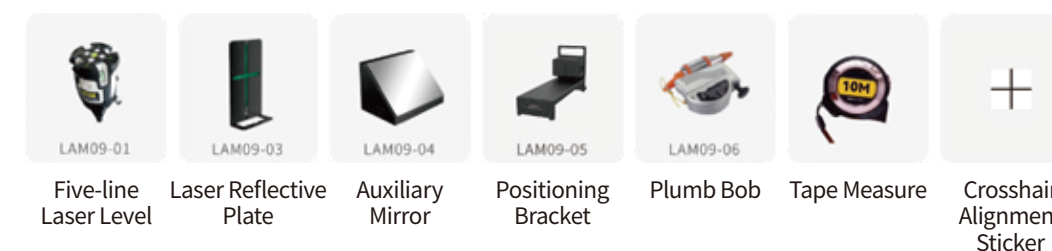
Features

1. Minimalist detachable design, lightweight, single-person operation, cost-effective choice.
2. It can support the calibration of more than 95% of the models equipped with ADAS systems in the world, and keep updating.
3. Support LDW/ACC/AVM/NVS/BSD/RCW ADAS system calibration.
4. The software provides graphic tutorials and step-by-step guidance.
5. Support output of comparison reports before and after calibration.
6. The main frame is compactly packaged, and its ultra-small size greatly reduces transportation costs.

Functions

1. **Multi-system calibration:** Supports calibration for six major systems including LDW/ACC/AVM/NVS/BSD/RCW.
2. **Multi-vehicle model calibration:** Supports ADAS system calibration for over 90 vehicle brands in Europe, America, Asia, and China, and over 90 targets.
3. **Equipment lifting:** Supports manual lifting, and the main frame scale can accurately locate the height of the target.
4. **Centring and parallelism:** The centering and parallel positioning of the equipment is completed through auxiliary accessories such as five-line laser instruments.
5. **Quick positioning and horizontal adjustment:** The base positioning mark and horizontal adjustment knob make it easy to quickly find the equipment positioning point and level the equipment.

Accessories



Passenger Vehicle ADAS Calibration Targets & Accessories

(Compatible with PRO+ / MOBILE / LITE/ ECO)

LDW Targets

Mercedes	VW/Audi	Honda I	Honda I	Honda II	Honda III	Toyota I	Toyota II
Toyota III	Toyota IV	Nissan I	Nissan I	Renault/Nissan II	Renault/Nissan II	Hyundai/Kia	Hyundai/Kia
Mazda I	Mazda II	Mazda II	Romeo	Subaru I	Subaru II	Suzuki I	Suzuki I
Suzuki II	Mitsubishi	Mitsubishi	Sprinter	Sprinter	Daihatsu I	Daihatsu II	Daihatsu II
Subaru III	Maserati	Maserati	Tesla				

RCW&AVM Targets

Mercedes-RCW	Mercedes-RFK	Mercedes-RFK	VW-RCW	VW-AVM	VW-AVM	Porsche-AVM	Porsche-AVM
Renault-AVM	Renault-AVM	Cadillac-AVM	Ford-AVM	Honda-AVM	Honda-AVM	Honda Lane Watch	Nissan-RCW
Nissan-RCW	Nissan-RCW	Hyundai/Kia-AVM	Hyundai/Kia-AVM	Hyundai/Kia-AVM	Mitsubishi-AVM	Toyota-AVM	Toyota-AVM

Toyota-AVM	Toyota-AVM	Toyota-AVM	Toyota-AVM	Toyota-AVM	Toyota-RCM

Radar Targets

ACC Reflector	Corner Reflector	Doppler Simulator	NISSAN ICC Radar Target	Audi-Lidar Target	Toyota Lidar Reflector

Radar Level Alignment Tool

Used for BOSCH LRR3/4 Radar	Used for BOSCH MRR Radar	Used for TOYOTA SONAR Radar	Digital Angle Protractor

NV Targets

VW/Audi/GM	Mercedes	Lexus	Chrysler SmartBeam Camera Calibration Tool	Volvo Camera&Radar Adjustment Tool	Angle Protractor

Parts

Vehicle Coverage

European

Mercedes-Benz, BMW, Audi, Volkswagen, Land Rover, Jaguar, Volvo, Fiat, Opel, Seat, Skoda, Renault, Citroen, Smart, MINI, Peugeot, Porsche, Romeo, Maserati, etc.

Asian

Kia, Hyundai, Toyota, Lexus, Honda, Acura, Nissan, Infiniti, Mitsubishi, Subaru, Suzuki, Daihatsu, Mazda, etc.

American

GM, Ford, Chrysler, Buick, Cadillac, Chevrolet, Dodge, Jeep, Lincoln, Tesla, etc.

Note: This list is continually updating.

CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration

EV1 EV Detection Tool

EV2 EV Maintenance Equipment

CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration

EV1 EV Detection Tool

EV2 EV Maintenance Equipment

ADAS RADAR 3IN1

Passenger Vehicle ADAS Radar Calibration Toolkit



Scan for more information

ADAS RADAR 3IN1 is a ADAS radar system calibration kit for passenger vehicles, which can meet the calibration requirements of adaptive cruise system, blind spot monitoring system, lane change assist system and front corner radar system.

Supports Calibration for Multiple Radar Systems

No Need for ADAS Equipment Main Frame

Provides Detailed Visual Tutorials

Pre-and-Post Calibration Reports



LAM05-02
ACC Radar Target



LAC05-03
Corner Reflector



LAC05-04
Doppler Simulator



Main Unit

Functions



ACC

Adaptive Cruise Control



BSM

Blind Spot Monitoring



LCA

Lane Change Assist



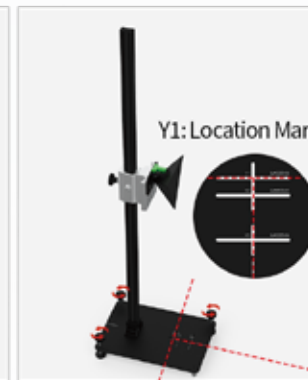
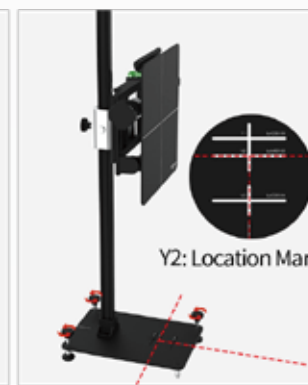
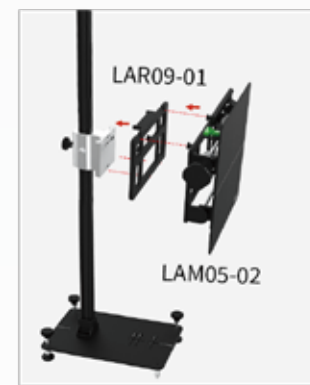
FCR

Front Corner Radar

ACC Radar Target, Corner Reflector, and Doppler Simulator share the main frame, supporting ACC and BSD system calibration.

Target	Calibration System	Vehicle Coverage
LAM05-02 ACC Radar Target	ACC(Adaptive Cruise Control)	Mercedes-Benz, BMW, Audi, Volkswagen, Porsche, SKODA, Seat, Romeo, MINI, Bentley, Rolls-Royce, Maserati, FIAT, Jeep, Nissan, Mitsubishi, Suzuki, Infiniti, Hyundai, Kia, BYD, GEELY, CHERY, etc.
LAC05-03 Corner Reflector	ACC(Adaptive Cruise Control) BSM (Blind Spot Monitoring)	Toyota, Lexus, Honda, Acura Mazda, Subaru, Mitsubishi, Hyundai, etc.
LAC05-04 Doppler Simulator	LCA(Lane Change Assist) ECR(Eront Corner Radar)	Volkswagen.Audi.SKODA, Seat,Mazda,etc.

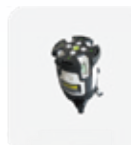
Cases



Accessories



Mounting adaptor



Five-line Laser Device



Laser Reflector



Auxiliary Mirror



Plumb Line



Positioning Bracket



Tape-10m

CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration

EV1 EV Detection Tool

EV2 EV Maintenance Equipment

CM1 Wheel Equipment

CM2 Maintenance Equipment

CM3 Detection Tool

CM4 ADAS Calibration





EV1 EV Detection Tool

EV2 EV Maintenance Equipment

E10

EV Intelligent Diagnostic Tool

E10 is an intelligent testing device specially designed for the "three-electric" system (Battery, Motor, Electronic Control System) of electric vehicles. It supports offline testing and driving of high-voltage components such as compressors, PTC, DCDC, OBC, and motor controllers; Supports offline reading of high-voltage component data streams, offline code reading, code clearing, and other functions; Supports offline battery pack testing and vehicle testing.

-  **one-machine detection of eight high-voltage accessories**
-  **Full coverage of three major automotive repair scenarios**
-  **Control panel fault code repair guide**
-  **Remote control of equalization and charging/discharging with CE39 host**



Features

1. Supports offline diagnosis of the vehicle's 3-electric system (Battery, Motor, Electronic Control System), and one-machine detection of eight high-voltage accessories including electric compressor, DC-DC, OBC on-board charger, PTC, motor, electronic control, battery pack, and high-voltage distribution box, achieving complete coverage of the three major auto repair scenarios of vehicle detection, off-vehicle detection, and control panel detection.
2. With CE39 host, diagnostic, equalization, charging and discharging functions are four in one, supporting diagnostic and equalization charging and discharging work at the same time, and E10 can remotely control CE39 host.
3. Support control panel fault code maintenance guidance, provide troubleshooting ideas, circuit schematics, control panel topology diagrams, and implement guided maintenance.
4. It covers the entire system of more than 95% of electric vehicle models and is continuously updated.
5. Provide four battery pack connection methods: OBD, dedicated connector, jumper connection and fast charging port connection.
6. Provides professional battery pack connectors and integrated aviation plug connectors to enhance testing efficiency.
7. Support ADAS calibration, tire tread detection, insulation tester, oscilloscope, digital power supply, multimeter, current clamp, endoscope, infrared thermal imager and other expansion modules.
8. Dual Wi-Fi design, the host and VCI have independent Wi-Fi connections, and the host's Internet access is not affected when VCI is working.
9. Provides a full vehicle topology diagram, clearly displaying the vehicle communication network for quick fault location.

Tablet parameters

Display	10.1 inches, resolution 800×1280	Charging method	Type-C, contact charging
CPU	2.0GHz octa-core	Interface	Type-C, Type-A, Pogo Pin
Memory	4GB	Communication	Wi-Fi, Bluetooth, USB
Storage	128GB	Size	295.9×196×38.6mm
System	Android	ED BOX operating voltage	DC 9~18V
Wi-Fi	2.4GHz & 5GHz Dual-band, Dual Wi-Fi	ED BOX communication method	USB, Bluetooth
Battery	9360mAh/3.8V lithium battery	ED BOX size	112×72.5×32.5mm

Functions

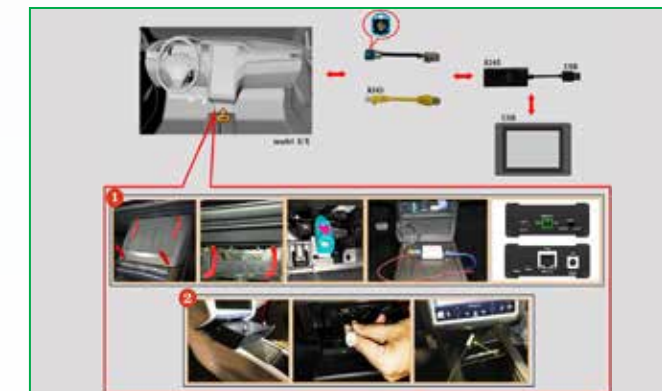
- 1. Off-vehicle detection:** It supports offline diagnosis and driving after replacement and repair of high-voltage components such as DC-DC converters, OBC on-board chargers, air-conditioning compressors, PTCs, motor controllers, etc., and provides connection instructions to support offline reading of data streams, reading of fault codes and clearing of codes of each component.
- 2. Maintenance Guide:** Supports fault code detection and provides online viewing of fault repair guidance function.
- 3. Battery pack detection:** Supports in-depth battery pack diagnostics for both passenger and commercial vehicle battery brands. It can read SOC/SOH, cell/module voltage, temperature, battery pack status, and fault information. The system automatically calculates key indicators such as total voltage, voltage difference, and highest/lowest voltage, automatically marks abnormal data, and provides information security strategies to protect all data.
- 4. Vehicle detection:** Supports full-function testing of the vehicle's electronic control system, including electric vehicle code reading, code clearing, data stream reading, action testing, special functions, etc.
- 5. Maintenance function:** Supports offline testing of DC-DC converters, OBC onboard chargers, air-conditioning compressors, and 48V mild hybrid components, and supports more than 30 commonly used special functions.
- 6. ADAS Calibration:** Supports ADAS system calibration for many models in Europe, America, Asia and China, and is compatible with all calibration frames of the ADAS calibration series.
- 7. Test report:** Supports classified display of battery pack test report, vehicle test report, ADAS calibration report, etc.
- 8. Software upgrade:** Supports online upgrades of vehicle software, firmware software, and APP software.
- 9. Module extension:** Supports tire tread detection, digital power supply, endoscope, infrared thermal imager and other functional expansions.

one-machine detection of eight high-voltage accessories



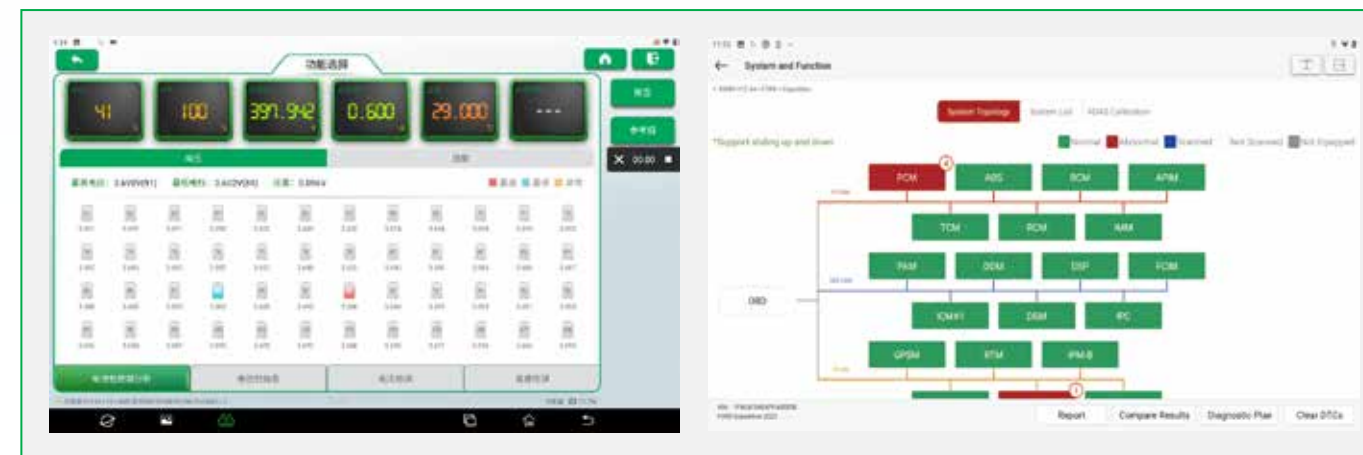
Electric compressor, On-board charger, Motor, Electronic control, Battery, High voltage distribution box

Support control panel fault code maintenance guidance



provide troubleshooting ideas, circuit schematics, control panel topology diagrams, and implement guided maintenance

Full coverage of three major automotive repair scenarios



Vehicle detection, Off-vehicle detection, Control panel detection, Control panel fault code repair guide, Troubleshooting ideas, Circuit schematic, Control panel topology, Guided maintenance

P13

EV Detection Tool



Scan for more information

P13 is a "special inspection level" electric vehicle detector that integrates battery pack testing, whole vehicle system testing, anti-theft, ADAS, and common maintenance functions.

-  **Deeply customized AAOS system, supports application split screen, and can open two applications at the same time**
-  **Pre-installed SmartSafe device applications, Split screen for voice/video communication**
-  **Battery pack "special inspection level" inspection, comprehensive vehicle series and full system inspection**
-  **Standard patented battery pack special detection connector**
-  **New SLC detection connector, support LAUNCH remote detection ecology**



Features

1. Wide model coverage, covering the full system diagnosis of more than 95% of electric vehicle models, and is continuously updating.
2. Supports offline testing functions of multiple components and multiple maintenance functions.
3. Supports 4 battery pack connection methods, special connector for patented battery pack, high detection efficiency.
4. Topology map display, and provides vehicle topology map, clearly displays vehicle communication, and quickly locates fault points.
5. Standard remote diagnostic box, support super remote, independent WIFI communication.
6. The AAOS system is deeply customized and supports split-screen display of applications. During vehicle detection, the browser can be used to query data in split-screen mode.
7. Intelligent connection of multiple devices, supporting four-wheel alignment, tire tread detection, ADAS, anti-theft, and EV detection and maintenance equipment.
8. Supports the merging of multiple device reports, and different detection reports of the same vehicle can be merged into a comprehensive report;
9. 13.3-inch high-definition display screen, featuring a brand-new industrial design, utilizes state-of-the-art materials and processes, with an ultra-light and ultra-thin body.

Parameters

Host		SLC	
Display	13.3inches(1920×1080)	CPU	Cortex-A7 + Cortex-M7
CPU	2.0GHz Octa-core	Memory	256MB
Memory	8GB	Storage	8GB
Storage	256GB	System	Linux
System	AAOS(Android 10)	Display	3.97 inches, resolution 320×480
Wi-Fi	2.4GHz/5GHz dual-band dual Wi-Fi	Operating Voltage	DC 9~36V
Camera	Front 8MP, Rear 13MP	Wi-Fi	2.4GHz/5GHz dual frequency
Battery	13600mAh/3.8V	Interface	Type B, RJ45, OBD-II 16, DC-IN
Interface	USB, Type C, DC-IN, Mini HDMI	Communication	Local diagnostic modes: Wi-Fi, Bluetooth, USB
Communication	Wi-Fi, Bluetooth, USB	Remote Diagnostic Mode	Ethernet, Wi-Fi
Dimensions	355.4×227×34.45mm	Dimensions	192×107.2×42.5mm

Functions

- 1. Vehicle inspection:** Supports full-system and full-function detection of electric vehicle models such as DTC reading, DTC clearing, data stream reading, action test, and special functions, and supports remote collaboration, super remote, and trial feedback functions.
- 2. Battery pack detection:** Supports battery pack detection for passenger vehicles, commercial vehicles, and battery brands. It can read SOC/SOH, cell/module voltage, temperature, battery pack status and fault information, and automatically calculate total voltage, voltage difference, maximum/minimum Voltage and other key indicator data are automatically labeled with abnormal data.
- 3. Maintenance function:** Supports offline testing of DC-DC converters, OBC car chargers, air conditioning compressors, 48V light hybrid components, etc. Supports maintenance light reset, throttle matching, brake pad replacement, steering angle reset, anti-theft matching, ABS exhaust, injector coding, DPF regeneration, sunroof initialization, gearbox matching.
- 4. Anti-theft matching:** Supports vehicle anti-theft matching, anti-theft chip reading and writing, anti-theft ECU reading and writing, key matching and other functions.
- 5. ADAS calibration:** Supports ADAS system calibration for many models in Europe, America, Asia, and China, and is compatible with ADAS PRO+, ADAS MOBILE, ADAS LITE, ADAS RADAR 3IN1 and other devices.
- 6. User Center:** Supports registering an account, viewing connected devices, and activating diagnostic connectors.
- 7. Upgrade Center:** Supports online upgrade of application software, vehicle model software, and firmware software, and can manage APP and vehicle model software.
- 8. Report Center:** Supports viewing reports generated by all applications, and can filter and merge reports to generate comprehensive reports.
- 9. Tire equipment application:** Supports four-wheel alignment, and tire tread detection functions, and can be connected to WA913 and TTM113.
- 10. Application of EV equipment and tools:** Supports equalization testing, wireless equalization, charge and discharge, equalized charge and discharge, air tightness testing, oscilloscopes, multimeters, voltmeters, digital power supplies, insulation tests, current clamps, and Videoscopes.
- 11. System application:** Supports camera, gallery, calculator, calendar, email, file management, browser, and system settings.

Battery Pack Detection Special Adapter List

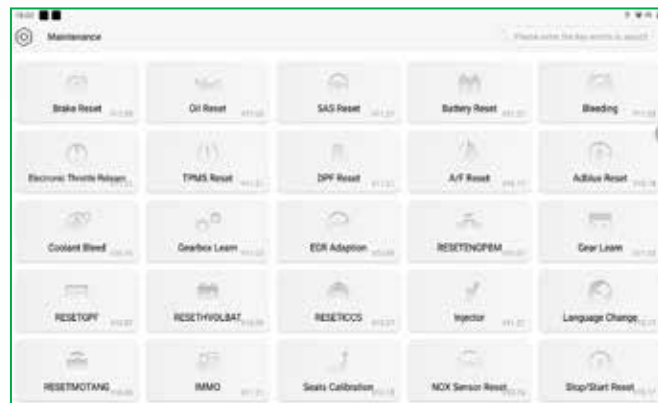
	TL-101R	BYD TANG DM
	TL-102R	BYD HAN EV
	TL-127R	BYD D1
	TL-124B	Tesla Model 3
	TL-152B	Tesla Model 3
	TL-153B	Tesla Model S & X

Four Battery Pack Detection Methods



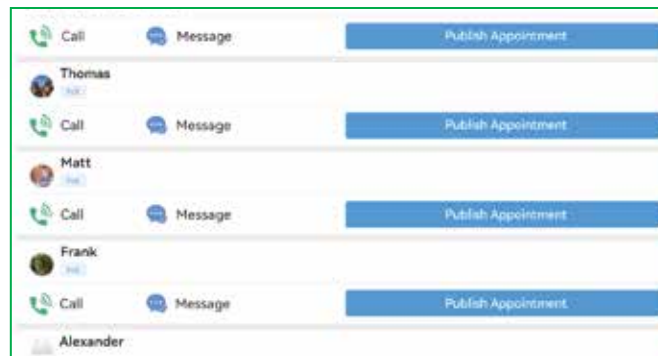
Supporting specialized adapter connection, quick charging port connection (Only for Chinese models), jumper connection, and OBD connection, these four methods offer users a broader range of choices.

Supports offline testing capability



Supports offline testing for components like air conditioning compressors, onboard chargers (OBC), DC-DC converters, and 48V mild hybrid components

Support LAUNCH remote detection ecology



The device initiates a remote diagnosis application, and technical support personnel remotely control the equipment to solve complicated problems. It also supports the release of requirements through super remote diagnosis and pays to find online technicians to quickly solve the problem.

Topological graph for quick fault localization



Provide the whole vehicle topological graph, clearly display the vehicle communication network, and quickly locate the fault point

Coverage for Over 95% of EV Models



Currently, it covers battery pack testing and full-system testing for over 95% of EV brands, with ongoing updates.

P01

EV Detection Tool



Scan for more information

P01 is a professional detection level EV detection tool that integrates battery pack detection, whole vehicle system detection, and common maintenance functions.

Battery Pack "Professional Grade" Testing

Dedicated Connector for Battery Pack Testing

Offline Testing Capability

Comprehensive Vehicle Series and Full System Inspection



Features

1. Cover more than 95% of the whole system of EVs, and keep updating;
2. Supports testing of DC/DC converter, onboard charger, high-voltage distribution box, and other common maintenance functions
3. Provide four battery pack connection methods, including OBD, special connector, jumper connection and fast charging port connection;
4. Equipped with battery pack professional connector as standard and integrated aviation plug connector to improve detection efficiency;
5. Support ADAS calibration, tread detection, insulation tester, oscilloscope, digital power supply, multimeter, current clamp, video-scope and other expansion modules;
6. Dual WIFI design, the host is connected to the VCI with independent WIFI, and the VCI does not affect the host to access the Internet when it is working;
7. Provide the whole vehicle topological graph, clearly display the vehicle communication network, and quickly locate the fault point.

Parameters

Host		VCI	
Display Size	10.1inches(1920x1200)	Voltage	DC9~36V
CPU	2.0GHz Octa-core	CPU	Cortex-A7 + Cortex-M7
Memory	4GB	Memory	256MB
Storage	128GB	Storage	8GB
System	Android11	System	Linux
Wi-Fi	2.4GHz/5GHz	Wi-Fi	2.4GHz/5GHz
Camera	Front 8MP, Post 13MP	Communication	Wi-Fi, BT, USB
Battery	3.8V/9360mAH	Interface	USB Type B, OBD II -16, DC-IN
Interface	Type A, Type C	Product size	197×40×83mm
Communication	Wi-Fi, BT, USB		
Product size	318×40.5×246.5mm		

Functions

- 1. Battery pack detection:** support battery pack detection of passenger car and commercial vehicle battery brands, read SOC/SOH, monomer/module voltage, temperature, battery pack status and fault information, and automatically calculate total voltage and differential pressure, key index data such as the highest/lowest voltage, and automatically mark abnormal data;
- 2. Vehicle detection:** support the whole system and full-function detection of EVs, such as code reading, code clearing, data flow reading, action testing, and special functions;
- 3. Fast charging port detection:** connect the fast charging detection gun with Bluetooth, and read the battery pack data through the fast charging port of the vehicle to realize fast detection of the battery pack;
- 4. Maintenance function:** support offline testing of DC-DC converters, OBC car chargers, air conditioner compressors, 48V light hybrid components, etc., and support 30+ common special functions;
- 5. ADAS calibration:** supports ADAS system calibration of many models in Europe, America, Asia, and China, compatible with ADAS PRO+, ADAS MOBILE, ADAS LITE, ADAS RADAR 3IN1 and other equipment;
- 6. Test report:** support the display of battery pack test report, vehicle test report, ADAS calibration report, etc;
- 7. Software upgrade:** support online upgrades, including model software, firmware software, and APP software;
- 8. Module expansion:** support tread detection, digital power supply, oscilloscope, multimeter, current clamp, insulation test, endoscope and other functional expansions.

Battery Pack Detection Special Adapter List

	TL-101R	BYD TANG DM
	TL-102R	BYD HAN EV
	TL-127R	BYD D1
	TL-124B	Tesla Model 3
	TL-152B	Tesla Model 3
	TL-153B	Tesla Model S & X

Four Battery Pack Detection Methods



Supporting specialized adapter connection, quick charging port connection (Only for Chinese models), jumper connection, and OBD connection, these four methods offer users a broader range of choices.

Supports offline testing capability



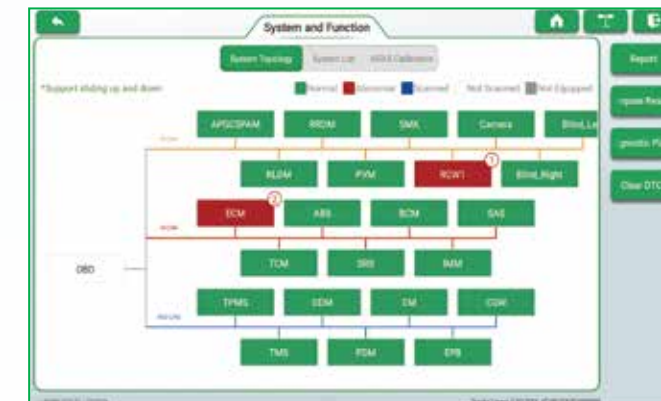
Supports offline testing for components like air conditioning compressors, onboard chargers (OBC), DC-DC converters, and 48V mild hybrid components

Dedicated Battery Pack Testing Software



Built-in dedicated battery pack testing software, supports battery pack testing based on car brand or battery manufacturer, allowing users to access battery pack testing functions more quickly

Topological graph for quick fault localization



Provide the whole vehicle topological graph, clearly display the vehicle communication network, and quickly locate the fault point

Coverage for Over 95% of EV Models



Currently, it covers battery pack testing and full-system testing for over 95% of EV brands, with ongoing updates.

P03 V4.0

EV Integrated Detection Tool



Scan for more information

P03 V4.0 is a professional detection level EV integrated detection tool that integrates battery pack detection, whole vehicle system detection and common maintenance functions. And built-in 4 common detection tools, including oscilloscope, multimeter, insulation tester and current clamp.

Battery Pack "Professional Grade" Testing

Dedicated Connector for Battery Pack Testing

Integration of Four Types of Testing Tools

Comprehensive Vehicle Series and Full System Inspection

New SLC detection connector, support LAUNCH remote detection ecology



Features

1. Built-in 4 common detection tools, including oscilloscope, multimeter, insulation tester and current clamp. Covering common measurement requirements in maintenance scenarios of EV battery pack;
2. Cover more than 95% of the whole system of EVs, and keep updating;
3. Supports testing of DC/DC converter, onboard charger, high-voltage distribution box, and other common maintenance functions;
4. Support control panel fault code maintenance guidance, provide troubleshooting ideas, circuit schematics, control panel topology diagrams, and implement guided maintenance.
5. Standard remote diagnostic box, support super remote, independent WIFI communication.
6. Provide four battery pack connection methods, including OBD, special connector, jumper connection and fast charging port connection;
7. Equipped with battery pack professional connector as standard and integrated aviation plug connector to improve detection efficiency;
8. Support ADAS calibration, tread detection, insulation tester, oscilloscope, digital power supply, multimeter, current clamp, video-scope, and other expansion modules;
9. Dual WIFI design, the host is connected to the VCI with independent WIFI, and the VCI does not affect the host to access the Internet when it is working;
10. Provide the whole vehicle topological graph, clearly display the vehicle communication network, and quickly locate the fault point.

Parameters

Host		SLC	
Display Size	10.1inches(1920x1200)	CPU	Cortex-A7 + Cortex-M7
CPU	2.0GHz	Memory	256MB
Memory	8GB	Storage	8GB
Storage	256GB	System	Linux
System	Android10	Display	3.97 inches, resolution 320×480
Wi-Fi	2.4GHz/5GHz	Operating Voltage	DC 9~36V
Camera	13.0 MP	Wi-Fi	2.4GHz/5GHz dual frequency
Battery	3.7V/18720mAh	Interface	Type B, RJ45, OBD-II 16, DC-IN
Interface	Type A, Type C	Communication	Local diagnostic modes: Wi-Fi, Bluetooth, USB
Communication	Wi-Fi, BT, USB	Remote Diagnostic Mode	Ethernet, Wi-Fi
Size	440×120×298mm	Dimensions	192×107.2×42.5mm

Functions

1. **Battery pack detection:** support battery pack detection of passenger car and commercial vehicle battery brands, read SOC/SOH, monomer/module voltage, temperature, battery pack status and fault information, and automatically calculate total voltage and differential pressure, key index data such as the highest/lowest voltage, and automatically mark abnormal data;
2. **Vehicle detection:** support the whole system and full-function detection of EVs, such as code reading, code clearing, data flow reading, action testing, and special functions;
3. **Fast charging port detection:** connect the fast charging detection gun with Bluetooth, and read the battery pack data through the fast charging port of the vehicle to realize fast detection of the battery pack;
4. **Maintenance function:** support offline testing of DC-DC converters, OBC car chargers, air conditioner compressors, 48V light hybrid components, etc., and support 30+ common special functions;
5. **ADAS calibration:** supports ADAS system calibration of many models in Europe, America, Asia and China, and is compatible with all calibration main frames of ADAS calibration series;
6. **Test report:** support the display of battery pack test report, vehicle test report, ADAS calibration report, etc;
7. **Software upgrade:** support online upgrades, including model software, firmware software, and APP software;
8. **Module expansion:** support tread detection, digital power supply, oscilloscope, multimeter, current clamp, insulation test, endoscope and other functional expansions.

Battery Pack Detection Special Adapter List

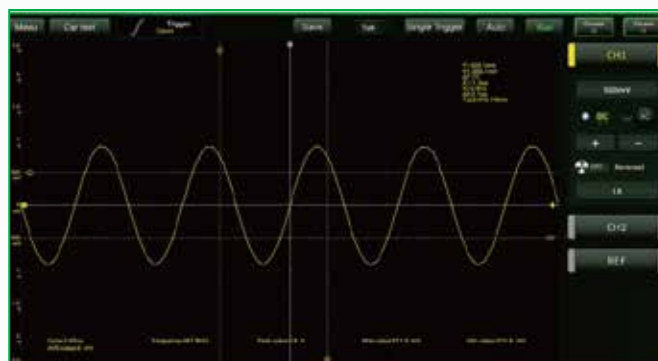
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one-machine detection of eight high-voltage accessories



Electric compressor, DCDC, On-board charger, PTC, Motor, Electronic control, Battery, High voltage distribution box

Integration of four detection tools



Oscilloscope



Multimeter



Insulation Tester



Current Clamp

Battery Pack Detection Specialized Adapters Dedicated Battery Pack Testing Software



Equipped with specialized adapters for various battery pack brands, no need for complex jumper operations, plug and play for instant testing.



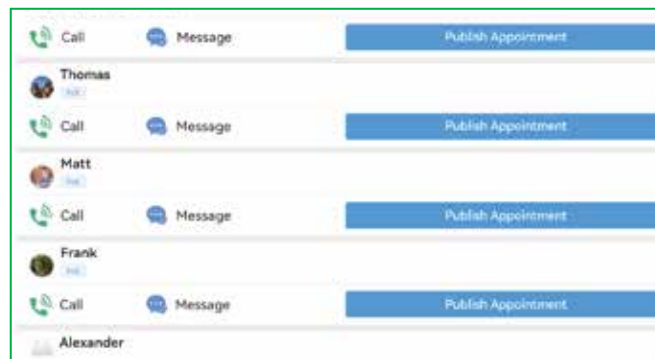
Built-in dedicated battery pack testing software, supports battery pack testing based on car brand or battery manufacturer, allowing users to access battery pack testing functions more quickly

Coverage for Over 95% of EV Models



Currently, it covers battery pack testing and full-system testing for over 95% of EV brands, with ongoing updates

Support LAUNCH remote detection ecology



The device initiates a remote diagnosis application, and technical support personnel remotely control the equipment to solve complicated problems. It also supports the release of requirements through super remote diagnosis and pays to find online technicians to quickly solve the problem.

ECC01

Current Clamp



Scan for more information

ECC01 is an EV circuit system testing tool that supports DC voltage, DC current, and AC current testing. It can complete circuit testing in a non-contact manner under power-on conditions.

- Simple and Safe
- Fast and Accurate
- Stable Data
- Compact and Portable



Features

1. Non-contact DC test, which can be detected when power is on, simple and safe;
2. Anti-electromagnetic interference, providing stable and reliable measurement data;
3. Automatically select the range, combined with the noise reduction algorithm, fast and accurate measurement;
4. Ergonomic design, small and portable.

Functions (Need to be used with P01/P03/ST13/ST10 and other equipment)

1. Support DC voltage/current test, dual-mode display;
2. Support AC current test;
3. Support range selection;
4. Support real-time display of measured value, maximum value, minimum value, peak-to-peak value;
5. Support measurement waveform saving and playback.

Parameters

Test functions	DC test, DC voltage test, and AC test	Accuracy	±3%FS (23°C±5°C, below 75%rh)
Battery	9V dry cell	Phase error	≤3°(AC50Hz / 60Hz, 23°C±2°C)
Current test methods	Clamp CT, non-contact measurement	Zero-setting	Adjust the ZERO key for zero setting
Jaw dimension	φ16 mm×18 mm	Frequency response	DC~50kHz
Input measuring range	0~200A AC/DC	Working current	500mA
Resolution	1mA AC/DC	Working temperature	0~50°C
Output gear	10mV/A (0~20 A), 100 mV/A(0~200 A)	Size	278×71×37 mm



Usage Scenarios of ECC01

IRT01

Insulation Resistance Tester



Scan for more information

IRT01 is a special insulation resistance tester for EVs. It is equipped with powerful measurement and data processing software, which can efficiently complete the measurement of parameters such as insulation resistance and voltage.

- Flexible Application
- Wide Measurement Range
- Smart Alarm
- Auto Shutdown



Features

1. Flexible application, can measure insulation resistance and AC/DC voltage, support comparison measurement, continuous measurement, timing measurement 3 modes;
2. Wide range measurement, for different output voltages, the resistance measurement range can reach 10MΩ-1000GΩ;
3. Intelligent alarm, low resistance, timely alarm to protect personnel and equipment safety when the range is exceeded;
4. 5-inch LCD backlit display, convenient for measurement in poor light environments;
5. Automatically shut down without any operation in 15 minutes, saving energy and electricity.



Usage Scenarios of IRT01

Functions

1. **Insulation resistance test:** support the selection of 500V/1000V/2500V/5000V output voltage range, support comparison measurement, continuous measurement, timing measurement three modes;
2. **Voltage measurement:** support DC and AC voltage measurement;
3. **Other functions:** support LCD backlight, automatic shutdown after 15 minutes without operation, over-range alarm, high-voltage warning indication.

Parameters

Output voltage	500 V/1000 V/2500 V/5000 V	DC measurement	±30 V~±600 V DC, resolution: 1 V, accuracy: ±2%
	500V:10MΩ~20GΩ	AC measurement	±30 V~±600 V AC, resolution: 1 V, accuracy: ±2%
Insulation resistance	1000V:10MΩ~40GΩ	Display mode	5-inch display
	2500V:10MΩ~100GΩ	Battery	3150mAh/11.4V
	5000V:10MΩ~1000GΩ	temperature	0~50°C
Short-circuit current	<3.0mA	Size	190×207×72mm

OM201

Two-channel Oscilloscope & Multimeter



Scan for more information

OM201 is a professional measurement tool for EVs that integrates multimeter and two-channel oscilloscope.

- Multi-purpose Device
- Automatic Measurement
- Waveform Playback
- Multiple Communication Methods



Features

1. Integrating the functions of multimeter and dual-channel oscilloscope, one machine with multiple functions;
2. Provide 3 measurement functions, including manual, tracking, automatic cursor;
3. Waveform diagrams can be saved locally and viewed at any time;
4. Support both wired and wireless communication methods (can be used with P01).

Functions

(Need to be used with P01/P03/ST13/ST10 and other equipment)

1. **Dual-channel oscilloscope:** supports automatic measurement of 6 parameters, automotive testing, waveform recording and playback;
2. **Multimeter:** support DC/AC voltage, current measurement, resistance measurement, diode measurement, on-off measurement.



Usage Scenarios of OM201

Parameters

Battery	3100 mAh/3.8 V	Size	160×195×42 mm
Oscilloscope			
No. of channels	2	Input coupling	DC, AC, and grounding
Bandwidth	10 MHz	Input impedance	1MΩ±2%, parallel with 15pF±5pF
Maximum real-time sampling rate	100 Mbps	Input capacitance	20 pF Max
Time base range	1us/div~10s/div, step by 1~2~5 times	Automatic measurement	Peak-peak,value, average...
Sampling methods	Common, peak value detection, average		/
Multimeter			
DC voltage	±600 V	Resistance	0~6MΩ
AC voltage	±600 V	Diode	0~2.0 V
DC current	±10 A	Continuity	Buzz when less than 50Ω
AC current	±10 A		/

CE39

EV Diagnose, Equalize & Charge/Discharge Equipment

CE39 is the industry's first four-in-one EV diagnostic and maintenance equipment that integrates vehicle diagnostics, battery cell equalization and module charging/discharging.

 Supports whole-vehicle diagnostics for electric vehicles

 Supports offline testing of batteries, motors, electronic controls, compressor, DCDC and OBC

 Intelligent and efficient equalization and charging/discharging

 Supports simultaneous operation of diagnosis and equalization/charging/discharging



Diagnose Equalize Charge Discharge

Four functions in one, Super cost-effective

Features

1. Supports simultaneous operation of diagnosis and equalization and charging/discharging.
2. Supports whole-vehicle diagnosis, covering full-system detection for over 95% of electric vehicle models.
3. Supports offline testing of batteries, motors and electronic controls.
4. Supports offline testing of compressor, DCDC and OBC.
5. Supports intelligent equalization technology, enabling synchronous equalization of 24 battery cells.
6. Supports 40A high current, significantly improving work efficiency.
7. Supports remote monitoring of equipment, allowing real-time tracking of operational status.

Functions

1. **Comprehensive whole-vehicle diagnosis:** Covering over 95% of electric vehicle models, it supports full-function diagnostics, including code reading, code clearing, data stream reading, actuator tests, and special functions. It enables real-time data stream monitoring and visually presents the communication network and fault points through a vehicle topology diagram, ensuring precise diagnosis and fault localization.
2. **Professional testing and maintenance for battery, motor, electric control, compressor, DCDC, and OBC:** Supports offline diagnostics for high-voltage core components such as DC converters, onboard chargers, air conditioning compressors, PTC heaters, and motor controllers. It enables offline reading of data streams and fault codes.
3. **Built-in control board fault code repair guidelines:** providing troubleshooting ideas, circuit schematics, control board topology diagrams, guided repair..
4. **Battery pack deep inspection:** Supports reading SOC/SOH, individual cell/module voltage, temperature, and fault information. Automatically calculates key indicators such as total voltage and voltage difference, and marks abnormal data.
5. **Precise cell equalization:** It supports synchronous equalization of 24 battery cells and is compatible with mainstream battery types such as ternary lithium, lithium iron phosphate, and lithium titanate.
6. **High-current efficient charging and discharging:** Supports 40A charging and 20A discharging currents, quickly adjusts the battery cells to the target voltage, and meets the fast charging and discharging requirements of the battery pack.
7. **Tablet Collaborative Interconnection:** The lightweight host is equipped with a smart tablet, which supports simultaneous diagnosis and equalization operations, and real-time monitoring of equalization progress, charge and discharge curves, and device status.
8. **Multiple security protections:** Built-in overvoltage, undervoltage, overcurrent, short circuit, reverse connection and over-temperature protection mechanisms ensure the safe operation of the device and battery.
9. **OTA remote upgrade:** Support remote firmware upgrade and function module iteration.

Tablet parameters

Display	10.1 inches, resolution 800×1280
CPU	2.0GHz octa-core
Memory	4GB
Storage	128GB
System	Android
Wi-Fi	2.4GHz & 5GHz Dual-band, Dual Wi-Fi
Battery	9360mAh/3.8V lithium battery

Host parameters

Power input	AC 90~264V/50-60Hz
Battery module voltage range	DC 0-112V
Cell voltage range	1.6~5V
Charging current range	0.5~40A, maximum power 3.2kW
Discharge current range	0.1-20A, maximum power 2.4kW
Single cell voltage accuracy	±0.1%FS±5mV (maximum range 5V)
Single cell current accuracy	±0.5%FS±0.05A (maximum range 20A)
Communication	Wi-Fi, Bluetooth
Number of equalization channels	2×12

Whole-vehicle diagnosis, topology diagram for quick fault location.



Intelligent balancing maintenance, 24 battery cells synchronous balancing.

No.	Voltage (V)	Current (A)	No.	Voltage (V)	Current (A)	No.	Voltage (V)	Current (A)	No.	Voltage (V)	Current (A)
1A	3.344	20.000	2A	3.344	20.000	3A	3.344	20.000	4A	3.344	20.000
5A	3.387	19.999	6A	3.387	19.999	7A	3.387	19.999	8A	3.387	19.999
9A	3.345	18.999	10A	3.345	18.999	11A	3.345	18.999	12A	3.345	18.999

Charging method	Type-C, contact charging
Interface	Type-C, Type-A, Pogo Pin
Communication	Wi-Fi, Bluetooth, USB
Size	295.9×196×38.6mm
ED BOX operating voltage	DC 9~18V
ED BOX communication method	USB, Bluetooth
ED BOX size	112×72.5×32.5mm

Equalization interface	12PIN×1, 13PIN×1
Charging control	Constant voltage charging, constant current charging
Discharge control	Constant current discharge, constant voltage discharge
Battery module charge and discharge protection	Battery module overcharge and over-discharge protection, over-temperature protection
Reverse polarity protection	Support
Over-temperature protection	Cooling box over-temperature 85°C protection
Host protection	Over-temperature, over-current, and current out-of-control trigger shutdown protection
Abnormal protection	Power line power failure, main cable power failure

Battery pack in-depth detection and offline testing for DCDC, OBC and PDU.







High current and efficient charging and discharging, fast adjustment to target voltage.

No.	Voltage (V)	Current (A)	No.	Voltage (V)	Current (A)	No.	Voltage (V)	Current (A)	No.	Voltage (V)	Current (A)
1A	3.344	20.000	2A	3.344	20.000	3A	3.344	20.000	4A	3.344	20.000
5A	3.387	19.999	6A	3.387	19.999	7A	3.387	19.999	8A	3.387	19.999
9A	3.345	18.999	10A	3.345	18.999	11A	3.345	18.999	12A	3.345	18.999

ECB240

Charge, Discharge, and Equalize All-in-One Machine

ECB240 is a high-power, high-current, charging, discharging and equalization integrated maintenance equipment designed specifically for large-capacity battery packs. It supports efficient charging and discharging and multi-channel cell equalization to improve battery pack maintenance efficiency.

-  **Charging/discharging/equalization function three in one**
-  **40A charging/20A discharging for fast charging and discharging**
-  **24 channels of efficient and precise equalization**
-  **Multiple safety protections such as overtemperature**



Features

1. Supports a maximum charging current of 40A and a maximum discharging current of 20A, greatly improving the efficiency of charging, discharging and cell equalization.
2. The maximum charging power is 3.2KW, and the maximum discharging power is 2.4KW, with strong power output capability.
3. Supports three working modes: charging, discharging and equalization.
4. Supports 24-channel cell synchronization equalization.
5. Support overvoltage, overcurrent, reverse polarity and other protection mechanisms.

Functions

- 1. Precise cell equalization:** Supports three working modes: charging, discharging and equalization, 24-channel battery cell synchronous equalization, and is compatible with mainstream battery types such as ternary lithium, lithium iron phosphate, and lithium titanate.
- 2. High-current efficient charging and discharging:** Supports 40A charging and 20A discharging currents, quickly adjusts the battery cells to the target voltage, and meets the fast charging and discharging requirements of the battery pack.
- 3. Multiple security protections:** Built-in overvoltage, undervoltage, overcurrent, short circuit, reverse connection and over-temperature protection mechanisms ensure the safe operation of the device and battery.
- 4. Data visualization:** Real-time monitoring of cell voltage, current, and pressure differential during operation, automatically saving data and supporting comparison analysis with line charts/bar charts. One-click generation of exportable test reports.
- 5. Custom parameter settings:** Preset target voltage, operating current, and other key parameters to flexibly adapt to different maintenance needs.
- 6. OTA remote upgrade:** Supports online firmware upgrades, eliminating the need for local USB flash drive operations, and continuously iteratively optimizes functions.

Parameters

Power input	AC 100~240V/50-60Hz	Equalization channels	2×12
Battery module voltage range	DC 0-112V	Equalization interface	12PIN×1, 13PIN×1
Cell voltage range	1.6~5V	Charging control	Constant voltage charging, constant current charging
Charging current range	0.5~40A, maximum power 3.2kW	Discharge control	Constant current discharge, constant voltage discharge
Discharge current range	0.1-20A, maximum power 2.4kW	Battery module charge and discharge protection	Battery module overcharge and over-discharge protection, over-temperature protection
Single cell voltage accuracy	±0.1%FS±5mV(maximum range 5V)	Reverse polarity protection	Support
Single cell current accuracy	±0.5%FS±0.05A (maximum range 20A)	Over-temperature protection	Cooling box over-temperature 85°C protection
Communication interface	WiFi, Bluetooth, USB, RJ45 network port	Host protection	Over-temperature, over-current, and current out-of-control trigger shutdown protection
Display	10.1 inches, resolution 1280×800	Abnormal protection	Power line power failure, main cable power failure





EB240

EV Battery Cell Equalizer



Scan for more information

EB240 is a high-precision equalization maintenance equipment designed based on the charging and discharging of EV lithium batteries, which can effectively repair battery module performance problems caused by inconsistent battery cell voltages.

-  **Supports 24-Channel Balancing**
-  **Efficient and Precise Cell Balancing**
-  **Compatible with All Types of Lithium Batteries**
-  **High-Precision Voltage/Current Measurement**



Features

1. Capable of simultaneously balancing up to 24 battery cells;
2. Compatible with all common types of lithium-ion batteries available in the market;
3. Intelligent balancing function allows individual balancing of battery cells within a battery module, preventing overcharging or over-discharging of individual cells.

Functions

- 1. Balancing Maintenance:** Supports charging, discharging, and balancing modes for lithium-ion batteries like ternary lithium, lithium iron phosphate, lithium titanate, and lithium manganese;
- 2. Parameter Configuration:** Pre-settable work modes, battery types, voltage thresholds, operating currents, cell series numbers, and other parameters;
- 3. Multiple Protections:** Supports overvoltage, undervoltage, overcurrent, output short circuit, reverse polarity protection, and overheat protection;
- 4. Data Visualization:** Real-time monitoring of voltage, current, charge-discharge status, and capacity of individual cells during the balancing process;
- 5. Data Analysis:** Automatically stores historical balancing records, supports data presentation in both graph and bar chart formats;
- 6. Data Export:** Historical data can be exported to a USB drive as Excel files;

Parameters

Power input	AC90~264V/40~60Hz	Wireless communication	WiFi and BT(external WiFi antenna)
Power	600W Max	Equalize number of channels	2×12Pin
Charge and discharge voltage range	1.8~4.2V	Equalize interface	16Pin
Voltage detection accuracy	±0.1% FS±2mV (maximum range 5V)	Battery interface	24Pin
Charge and discharge current range	0.1~5A Max	Display	10-inch LCD screen, resolution 1280×800
Current detection accuracy	±1% FS±0.05A (maximum range 5A)	Communication Interface	SMA,USB-Device
Battery temperature detection accuracy	±2°C (-25°C~ 85°C)	Charge control	Constant current charging+constant voltage charging
Discharge mode	Constant current discharging + constant voltage discharging		
Protection function	Input over-current protection, over-voltage protection, output over-current protection, over-temperature protection		

EB480

EV Battery Cell Equalizer



Scan for more information

EB480 is a high-precision lithium battery equalization maintenance equipment designed based on the charging and discharging of EV lithium batteries, which can effectively repair the problem of reduced cruising range caused by inconsistent battery voltage.

- Supports 48-Channel Balancing
- Efficient and Precise Cell Balancing
- Compatible with All Types of Lithium Batteries
- High-Precision Voltage/Current Measurement

Large
10-inch screen



Features

1. Supports simultaneous balancing of up to 48 battery cells at maximum capacity;
2. Supports all common types of lithium-ion batteries available in the market;
3. Independent channel design ensures that each individual cell within the module avoids overcharging or over-discharging.

Functions

- 1. Balancing Maintenance:** Supports automatic determination of working modes and can maintain batteries such as ternary lithium, lithium iron phosphate, lithium titanate, and lithium manganese oxide;
- 2. Parameter Settings:** Allows presetting of parameters such as battery type, voltage thresholds, working current, and the number of cells in series;
- 3. Multiple Protections:** Supports overvoltage, undervoltage, overcurrent, output short circuit, reverse polarity protection, and overheat protection;
- 4. Data Visualization:** Real-time monitoring of voltage, current, charge-discharge status and capacity of individual cells during the balancing process;
- 5. Data Analysis:** automatically save historical balance records and support curve chart data display;
- 6. Historical Records:** Automatically save historical balance records, support exporting historical data to a USB flash drive as an Excel file or sharing data overview as a PDF file via email or QR code;
- 7. Online Upgrade:** Support online upgrade of equipment, no need to use USB flash drive for local upgrade.

Parameters

Power input	AC90~264V/40~60Hz	Interface	RJ45×1/USB×2
Power	1200W Max	Equalization channel number	4×12
Charge and discharge voltage range	1.8~4.5V	Balanced interface	26Pin×2
Voltage detection accuracy	±0.1%FS±2mV (maximum range 5V)	Temperature interface	24Pin
Charge and discharge current range	0.1~5A Max	Display	10-inch LCD screen, resolution 1280×800
Current detection accuracy	±1%FS±0.05A (maximum range 5A)	Charging working mode	constant current charging + constant voltage charging
Battery temperature detection accuracy	±2°C (-25~85°C)	Discharge working mode	constant current discharge
Protection function	over-current protection, over-voltage protection, over-temperature protection		

ET30

EV Battery Airtightness Detector (Low pressure)



Scan for more information

ET30 is an air-tightness detection equipment designed for EV battery packs.

- High Reliability
- Ultra High Accuracy
- Stability Pressure Regulation
- Intelligent Operation

Large
10-inch screen



Features

1. Allows direct presetting of battery pack parameters such as volume, pressure, testing time for each stage, and leakage limits;
2. High sensitivity pressure sensing, with high testing accuracy and stability;
3. Equipped with a pressure gauge to display the pressure curve in real-time, making the testing process clear at a glance;
4. Alert notifications for testing anomalies or failures.

Functions

- 1. Low-Pressure Airtightness Testing:** Using compressed air as the medium, a certain pressure is applied to the battery pack cavity, and a highly sensitive sensor detects pressure changes to determine its sealing;
- 2. Parameter Setting:** Pre-settable parameters include workpiece number, volume, pressure, duration for each stage, leakage limit, and other settings;
- 3. Process Visualization:** Real-time display of the working status during stages such as inflating, pressure stabilization, leakage testing, and exhaust;
- 4. Dual Pressure Value Display:** Real-time display of the current pressure and leakage fluctuation amount;
- 5. Historical Records:** Automatically save historical airtight records, support curve chart data display, support historical data export to USB flash drive in Excel file or share data overview in PDF file via email or QR code.
- 6. Online Upgrade:** Supports online upgrade of devices, no need to use USB flash drive for local upgrade.

Parameters

Power input	AC90~264V/40~60Hz	Power	20W Max
Test pressure range	0~30Kpa	Air source requirements	0.1~1.0MPa dry compressed air
Sensor resolution	1pa	Inlet interface/test interface	Φ6mm air pipe/Φ6mm air pipe
Test accuracy	±5pa	Working temperature	-10~ 55°C
Interface	RJ45×1/USB×2	Working humidity	10%~ 90%

ET500

EV Battery Airtightness Detector (High pressure)



Scan for more information

ET500 is a high and low voltage compatible air tightness testing equipment that supports the sealing test of electric vehicle battery pack boxes and liquid cooling systems.

- High and low pressure compatible
- High-precision non-destructive testing
- Stable pressure and high sensitivity
- Intelligent operation



Features

1. The battery pack and liquid cooling system share high and low voltages.
2. High-sensitivity pressure sensing, high testing accuracy and stability.
3. Automatically detect the pressure inside the battery pack. When the pressure is reached, it will automatically enter the next stage. Segmented inflation is more accurate.
4. The pressure gauge panel displays the process pressure curve in real time, making the test process clear at a glance.
5. High voltage automatic protection, alarm prompt when test fails or is abnormal.

Functions

1. **Air tightness testing:** Compressed air is used as the medium to apply a certain pressure to the battery pack cavity, and a highly sensitive sensor is used to detect changes in pressure to determine its sealing.
2. **Parameter settings:** Parameters such as workpiece number, volume, pressure, time of each stage, leakage limit and other parameters can be preset.
3. **Process visualization:** Real-time display of the working status of inflation, pressure stabilization, leakage, exhaust and other stages.
4. **Dual display of pressure value:** Display current pressure and leakage amount in real time.
5. **Detection history:** Automatically save detection history records and support curve charts to display detailed data.

Parameters

Power Input	AC90~264V/40~60Hz	Air Requirements	0.4~1.0MPa Dry Compressed Air
Test Pressure Range	0~500Kpa	Air Intake Interface/Test Interface	Φ8mm Ttrachea/Φ6mm Trachea
Sensor Resolution	1pa	Working Temperature	-10~ 55°C
Test accuracy	±5pa	Working Humidity	10%~ 90%
Interface	RS232 / USB		

EP401

EV Battery Charge & Discharge Equipment



Scan for more information

The EP401 is a maintenance device specifically designed for the charging and discharging characteristics of electric vehicle batteries. It can efficiently perform the charging, discharging, and balancing of battery pack modules, there by improving the efficiency of battery pack maintenance.

- Safe and Efficient Integrated Charging and Discharging
- Supports Various Lithium Batteries and Nickel-metal Hydride Batteries
- BMS System Protection Mechanism
- Multiple Safety Protections



Features

1. Supports charging and discharging maintenance for various battery type;
2. Utilizes advanced charging and discharging testing technology to avoid interference with the BMS system;
3. Supports a maximum of 72 channels for cell voltage collection and 12 channels for temperature collection;
4. Automatically determines charging and discharging operations;
5. Wide voltage design with built-in multiple charging and discharging modes to meet the voltage and current requirements of various battery pack modules, ensuring safety while improving charging and discharging efficiency;
6. Reverse polarity, overtemperature, short circuit, overcurrent, fan failure, overvoltage, overcurrent, etc. will be warned to ensure hardware safety;

Functions

1. **Charge/Discharge Test:** Adopting a wide voltage design, it is suitable for charging and discharging tests of battery modules of different voltage levels. Supports various lithium batteries and nickel metal hydride batteries.
2. **Single Unit and Terminal Voltage Collection:** Supports real-time acquisition of pack terminal voltage and individual cell voltage.
3. **Single Battery Core Protection:** Cell current and voltage protection thresholds can be set to prevent overcharge and over-discharge.
4. **Terminal Charging and Discharging Protection:** Supports overvoltage, undervoltage, overcurrent, output short circuit, reverse connection protection and overtemperature protection.
5. **Parameter Setting:** General mode can quickly start charging and discharging by setting a few parameters, while expert mode can set more detailed parameters.
6. **Data Visualization:** During the charging and discharging process, the voltage of each single cell, terminal voltage, terminal current, the charging and discharging status, the charging and discharging capacity, etc. are monitored in real time.
7. **History Records:** Automatically saves historical charging and discharging records, supporting both curve and bar chart data display formats. Historical data can be exported as Excel files to a USB drive or shared as PDF files via email or QR code for data overview.
9. **Online Upgrade:** Supports online device upgrades without the need for local upgrades using a USB drive.

Parameters

Power input	AC90~264V/40~60Hz	Display	10-inch LCD screen, resolution 1280×800
Terminal voltage accuracy	≤±0.1%FS+0.3V, resolution: 0.1V	Charging control	constant current charging + constant voltage charging
Single cell voltage accuracy	≤±0.1%FS+5mV, resolution: 0.001V	Discharge control	constant current discharge
Test current accuracy	≤±0.5%FS+0.2A, resolution: 0.1A	Battery module charge and discharge protection	overcharge, over-discharge, and over-temperature protection for battery module
Charging & discharging voltage	DC 2~400V	Host protection	over-temperature, over-current, and current out of control trigger shutdown protection
Charge current	0~100A, maximum power 4.4kW	Reverse polarity protection	Supported
Discharge current	0~100A, maximum power 7.2kW	Abnormal protection	power line power failure, main cable power failure
Interface	RJ45×1/USB×2	Overtemperature protection	Resistor box overtemperature at 85°C; radiator overtemperature at 100°C

DP901

Adjustable High Voltage Power Supply



Scan for more information

DP901 is a dedicated intelligent digital power supply suitable for both EVs and fuel vehicle maintenance. The voltage range of the high-voltage output is 50V-900V, which can be used for offline driving and maintenance test scenarios of more high-voltage electrical appliances.

Suitable for Electrical and Fuel Vehicles

Dual-Mode Output for High and Low Voltage

High Voltage Self-Check Protection

Bluetooth Wireless Control



Features

1. The high-voltage and low-voltage modules are isolated from each other, allowing individual protection for each module during power output without mutual interference;
2. Independent protection mechanisms are implemented in the input circuit, high-voltage output circuit, and low-voltage output circuit. These mechanisms can detect faults such as undervoltage, overvoltage, overcurrent, and short circuits, and initiate appropriate protective measures;
3. Compatible with various models of Smartsafe intelligent terminals for remote control capabilities.

Functions

1. **Low Voltage Output:** Supports 0V50V, 0A15A DC output, adjustable voltage/current through knobs;
2. **High Voltage Output:** Supports 50V900V, 0A5A DC output, adjustable voltage/current through knobs;
3. **Multiple Protections:** Supports high voltage input overvoltage, undervoltage protection, high voltage output overtemperature, short circuit, reverse polarity protection, low voltage output current limiting, short circuit protection;
4. **Remote Control:** Can be used with ST13/P01/P03 devices, remote operation via Bluetooth connection.

Parameters

Power Supply	AC100-240V@20A	Communication	BT
Maximum Power	4000W Max	Display	LED Digital Tube
High Voltage Output	Voltage: 50~900V	Protection	Short-Circuit, Current-Limiting, OverVoltage, UnderVoltage, Over Temp
	Current: 0~5A	Working Temp	-10~65°C
Low Voltage Output	Voltage: 0~50V	Size	395x315x265mm
	Current: 0~15A	Weight	11kg
Front Panel	High Voltage: Current knob, Voltage knob, High voltage switch button		
	Low Voltage: Current knob, Voltage knob, Low voltage switch button		

LT150

EV Battery Lift



Scan for more information

The LT150 is a professional lifting equipment designed for the disassembly and assembly of EV battery packs, which can quickly and safely complete the dismantling of battery packs and move them to the repair station. Equipped with a high-voltage insulation protection pad to protect the safety of maintenance workers.

Quick and Safe Battery Pack Installation and Removal

Heavy-Duty 360° Universal Moving Casters

Equipped with High-Voltage Insulation Protection Pads



Features

1. With a rated lifting capacity of up to 1.5T, it meets the needs for most electrical vehicle battery disassembly and installation in the market;
2. Utilizing laser materials and robot welding to ensure high precision and quality;
3. Powered by an asynchronous AC motor, the hydraulic gear pump drives the cylinder with the assistance of balancing support bars, ensuring smooth lifting and lowering;
4. Equipped with heavy-duty 360°swivel casters for easy mobility;
5. The platform surface is fitted with rubber insulation pads to prevent maintenance personnel from coming into contact with electricity.

Parameters

Voltage	AC90~264V/40~60Hz	Platform width	800mm
Operating voltage	24V	Platform length	1260mm
Power	0.75KW	Tilt angle	25°
Rated lifting weight	1.5T	Ascending time	18s
Minimum height	1100mm	Descending time	11s (descending speed adjustable)
Maximum height	1850mm	Size	1260×800×1100mm

MPT-100

Multi-functional Tool Trolley

MPT-100 is a multi-functional tool trolley with 5 layer design can help you place the tool/equipment orderly. The lockable drawer can effectively prevent the important tools from missing.

- Beam Manual Height Adjustment**
- High-Definition Industrial Camera**
- 50,000+ Vehicle Model Database**
- 10-15cm Rolling Compensation**



Features

1. 5 Layer design for tools/equipment orderly placement;
2. Top Layer Tilt Design for easy operating;
3. Lockable Drawer for safer storage;
4. Special Hock Rack design for wire arrangement;
5. Metal Radiating Plate for laptop/equipment effectively heat elimination;
6. Push/Pull handle and 360°freely rotate wheels, take MPT-100 to wherever you want;
7. Made of high-quality steel at least 2mm thickness.



TT116

EV Maintenance Tool Trolley

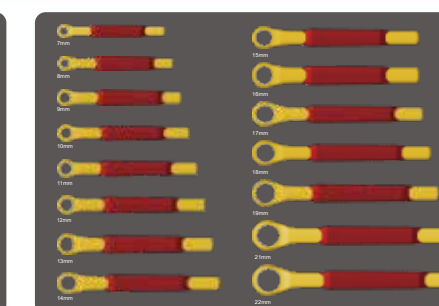
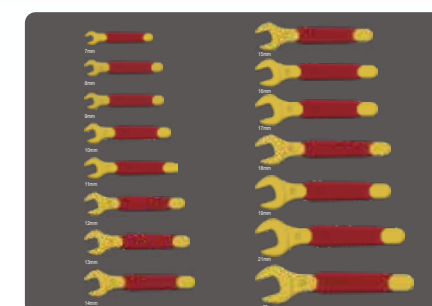
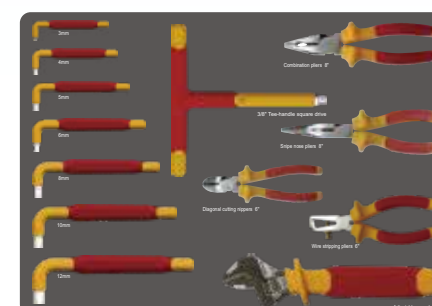
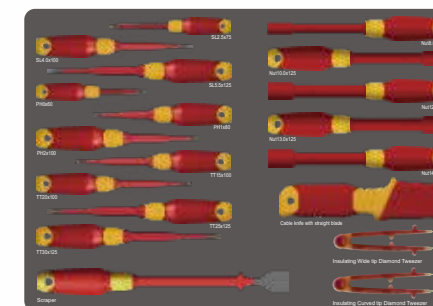
TT116 is a professional auto repair tool trolley developed for electric vehicle maintenance, containing 116 pieces of commonly used insulating tools, with comprehensive functions, reliable quality, both practicality and cost-effective.

- Complete Range of Insulation Tools**
- High-quality Steel, Sturdy and Durable**
- Dual-color Handles, Oil and Scratch-resistant**



Features

1. Tailor-made for electric vehicle maintenance, it is more suitable for safe maintenance work in the narrow space of electric vehicle three electric systems;
2. complete tools to meet the majority of electric vehicle three electric systems and other fasteners such as fasteners disassembly and installation work order needs;
3. Equipped with 1000V non-contact stylus, more effectively avoid the danger of accidental electrocution due to electrified work.



TT430

430pcs Mechanic Tools Cart Kit

TT430 is a solution for the vehicle machine maintenance. It not only has a full range of general-purpose tools, but also adds special tools for popular vehicle models. TT430 tool cart can both meet the demands of most vehicle models and used for special vehicles.



- Full range of tool specifications to meet the needs of most car models
- Configuration of the best-selling models of special sockets and other tools, vehicle-specific
- Super practicality and cost-effective

Features

1. Full range of tool specifications to meet the needs of most car models;
2. Targeted addition of special sockets and other tools for the best-selling car models on the market, realizing the specialization of tools for the car;
3. Ensure product quality, comprehensive functions, reduce the overall solution to improve cost-effective at the same time.



LT240

Floor Plate Two Post Lift



Scan for more information

The LT240 is a floor plate two post lift equipped with an electric hydraulic power system. Its steel structural columns are formed by thickened steel plate stamping and bending, and the exterior is treated with full powder coating, ensuring durability and longevity.



- 4.0T Lifting Capacity
- Pre-set Hydraulic Overload Protection
- Full Mechanical Safety Device

Features

1. Lifting capacity of up to 4.0T, catering to common passenger car maintenance scenarios.
2. Adjustable tray with a minimum height of 100mm, suitable for sports car lifting;
3. 120% dynamic and 150% static load testing compliant with CE standards;
4. Pre-set rated hydraulic pressure with overload protection when lifting vehicles;
5. Column width of 2780mm, suitable for wide vehicles like SUVs and commercial vans;
6. Full-travel mechanical safety locks for easy and secure operation;
7. Professional cloth protective design, rubber door guard pads, foot protection bars, explosion-proof flow control valves;
8. All movable points use automatic lubrication oil-free bearings to ensure long-lasting durability.

Parameters

Power Supply	220V/380V	Lifting Time	≤ 50S
Max Lifting Weight	4.0T	Drive Mode	hydraulic drive
Max Lifting Height	1930mm	Machine Power	2.2kw
Min Lifting Height	100mm	Hydraulic Oil	8Lwear-resistant hydraulic oil, provided by users
Total Height	2824mm	Hydraulic Power Unit	2.7ml/r
Distance between Columns	2780mm	Work Environment	Temperature: 5~40°C Humidity: 30~95%

LT240C

Clear Floor Two Post Lift



Scan for more information

LT240C is a clear floor two post lift that adopts an electro-hydraulic power system, with a lifting capacity of 4.0T, suitable for sheet metal or machine repair and quick oil change stations.

- 4.0T Lifting Capacity
- Manual Dual-Sided Unlocking
- Dual Hydraulic Cylinders



Features

1. Lifting capacity of up to 4.0T, catering to common passenger car maintenance scenarios.
2. Adjustable tray with a minimum height of 100mm, suitable for low chassis and household vehicle models;
3. 120% dynamic and 150% static load testing compliant with CE standards;
4. Column width of 2780mm, suitable for large-width vehicles like commercial vans;
5. Full-travel mechanical safety locks, explosion-proof flow control valve, overload protection;
6. All movable points use automatic lubrication oil-free bearings, ensuring long-lasting durability;
7. Laser cutting and automated welding ensure reliable quality.

Parameters

Power Supply	220V/380V	Lifting Time	≤ 45S
Max Lifting Weight	4.0T	Drive Mode	hydraulic drive
Max Lifting Height	1930mm	Machine Power	2.2kw
Min Lifting Height	100mm	Hydraulic Oil	8Lwear-resistant hydraulic oil, provided by users
Total Height	3740mm	Hydraulic Power Unit	2.7ml/r
Distance between Columns	2780mm	Work Environment	Temperature: 5~40°C Humidity: 30~95%

LT245

Floor Plate Two Post Lift



Scan for more information

The LT245 is a floor plate two post lift equipped with an electric hydraulic power system. Its steel structural columns are formed by thickened steel plate stamping and bending, and the exterior is treated with full powder coating, ensuring durability and longevity.

- 4.5T Lifting Capacity
- Dual Safety Design
- Suitable for Sports Cars / SUVs / Commercial Vehicles



Features

1. Rated load 4.5T, suitable for vehicle inspection, repair, maintenance and other workstations.
2. Mechanical and hydraulic dual insurance that meets international standards ensures safe use.
3. Two steel wire ropes are connected synchronously to force the two sliding platforms to move synchronously, effectively preventing the vehicle from tilting.
4. The minimum lifting height is 105mm, suitable for repairing sports cars.
5. Equipped with a high-precision lifting arm return angle locking device to prevent detachment.
6. Heavy load carrying chain for safe lifting of vehicles.

Parameters

Power Supply	220V/380V	Lifting Time	≤ 50S
Max Lifting Weight	4.5T	Drive Mode	hydraulic drive
Max Lifting Height	1930mm	Machine Power	2.2kw
Min Lifting Height	105mm	Hydraulic Oil	10L 46#(for summer) or 32#(for winter) wear-resistant hydraulic oil, provided by users
Total Height	2800mm	Hydraulic Power Unit	2.7ml/r
Distance between Columns	2980mm	Work Environment	Temperature: 5~40°C Humidity: 30~95%

LT245C

Clear Floor Two Post Lift



Scan for more information

LT245C is a clear floor two post lift that adopts an electro-hydraulic power system, with a lifting capacity of 4.5T, suitable for sheet metal or machine repair and quick oil change stations.



- 4.5T Lifting Capacity**
- Dual Safety Design**
- Suitable for Sports Cars / SUVs / Commercial Vans**

Features

1. Rated load 4.5T, suitable for vehicle inspection, repair, maintenance and other workstations.
2. Mechanical and hydraulic dual insurance that meets international standards ensures safe use.
3. Two steel wire ropes are connected synchronously to force the two sliding platforms to move synchronously, effectively preventing the vehicle from tilting.
4. The minimum lifting height is 105mm, suitable for repairing sports cars.
5. Equipped with a high-precision lifting arm return angle locking device to prevent detachment.
6. Heavy load carrying chain for safe lifting of vehicles.

Parameters

Power Supply	220V/380V	Lifting Time	≤ 45S
Max Lifting Weight	4.5T	Drive Mode	hydraulic drive
Max Lifting Height	1930mm	Machine Power	2.2kw
Min Lifting Height	105mm	Hydraulic Oil	10L 46#(for summer) or 32#(for winter) wear-resistant hydraulic oil, provided by users
Total Height	3852mm	Hydraulic Power Unit	2.7ml/r
Distance between Columns	2980mm	Work Environment	Temperature: 5~40°C Humidity: 30~95%

LT840

Big Scissor Lift



Scan for more information

LT840 is an Big Scissor Lift. The significantly thickened bridge plate ensures the accuracy of the four-wheel alignment cart. The high-precision insurance ensures the stability of the wheel alignment data. The X-support frame is made of solid steel and its anti-rust performance is greatly improved compared to the traditional square tube-type X-support frame. It has excellent performance and high durability.

4.0T Lifting Capacity

The Integrated Secondary Lifting Support Plate

High-strength and High-precision One-piecenon-welded 3-tooth Safety Gear



Features

1. Hydraulic synchronization, hydraulic lock and mechanical double safety device, automatically unlocking when lowered.
2. The oil cylinder parts are processed by high-speed fully automatic CNC lathes. It ensures excellent concentricity and smoothness, and the cylinder barrel is rolled and mirrored.
3. Imported seals, and imported ball valves, equipped with hydraulic explosion-proof devices.
4. Independent control box, 24V safety control circuit, good safety performance.
5. The X frame is made of high-quality alloy steel, laser-cut, solid steel plate, high strength, corrosion-resistant, and not easy to deform.
6. Shot blasting surface treatment, high-temperature spray treatment, and durability guaranteed.
7. Retractable secondary lifting panel.
8. All shaft positions are equipped with wear-resistant bearings and polymer wear-resistant sliders.
9. Hidden scissor structure takes up little space.

Parameters

Power supply	220V/380V	Sub-lift Platform Length	1480~1680mm
Capacity of Main Lift	4000kg	Sub-lift Platform Width	570mm
Capacity of Sub-lift	4000kg	Net Weight	1847kg
Initial Height	330mm	Power	3kw
Main Lift Lifting Height	1850mm	Drive Mode	Electro-hydraulic
Sub-lift Liting Height	480mm	Hydraulic Oil	16L 46# Antl-wear hydraulic oll (self-purchase)
Main Lift Platform Length	4500mm	Air Pressure	6~8bar
Main Lift Platform Width	625mm	Working Temperature	5~40°C

LT840T

Ultra-thin Big Scissor Lift



Scan for more information

LT840T is an ultra-thin wheel alignment lift that adopts whole-plate bending and high-strength bridge plates. The entire machine is made of alloy materials over a large area, with a solid structure and high-temperature spray-coated exterior treatment for durability.

4.0T Lifting Capacity

High-strength Alloy Assist Arm for Smooth Descent Under Full Load

Solid Steel X Frame Pneumatic Mechanical Safety Lock



Features

1. Ultra-thin double-layer structure, the thickness is only 190mm.
2. Hydraulic synchronization, dual hydraulic systems, hydraulic locks and mechanical triple safety devices, automatically unlocking when lowered.
3. The bridge plate is made of whole plate bending and welding, which is more precise and stronger.
4. The oil cylinder parts are processed by high-speed fully automatic CNC lathes. It ensures excellent concentricity and smoothness, and the cylinder barrel is rolled and mirrored.
5. The X frame is made of high-quality alloy steel, laser-cut, solid steel plate, high strength, corrosion-resistant, and not easy to deform.
6. Shot blasting surface treatment, high-temperature spray treatment, and durability guaranteed.
7. All shaft positions are equipped with wear-resistant bearings and polymer wear-resistant sliders.
8. Independent control box, 24V safety control circuit, good safety performance.

Parameters

Power supply	220V/380V	Sub-lift Platform Length	1540~1750mm
Capacity of Main Lift	4000kg	Sub-lift Platform Width	600mm
Capacity of Sub-lift	4000kg	Net weight	1899kg
Initial height	190mm	Power	3kw
Main Lift Lifting Height	1630mm	Drive mode	Electro-hydraulic
Sub-lift Lifting Height	460mm	Hydraulic oil	16L 46# Antl-wear hydraulic oil (self-purchase)
Main Lift Platform Length	4520mm	Air Pressure	6~8bar
Main Lift Platform Width	655mm	Working temperature	5~40°C

LT855

Big Scissor Lift

LT855 can lift all kinds of vehicles weighing no more than 5500kg, suitable for automobile repair enterprises, tire dealers of various grades of automobiles 4-wheel alignment measurement and automobile overhaul, repair and maintenance.

5.5T Lifting Capacity

Excellent stability and load-bearing capacity

Suitable for 4-wheel alignment solutions



Features

1. Large shear structure: The use of large shear structure, the structure has excellent stability and bearing capacity.
2. Lifting function: Can be smoothly lifted to the required working height, with electric or hydraulic lifting system, can accurately adjust the lifting height according to needs.
3. Safety features: Equipped with a variety of safety features, such as limit switches, emergency shutdown devices, overturning protection and collision avoidance devices, to ensure the safety of the operator.
4. Four-wheel positioning function: Equipped with the front wheel pneumatic corner disk and the rear wheel lengthening side slide, suitable for a variety of high-precision four-wheel positioning.

Parameters

power supply	220V/380V	Sub-machine Platform width	625mm
Host Rated Lifting weight	5.5T	Weight	2800kg
Rated lifting weight of sub-machine	5500kg	Container loading quantity	20GP-7pcs
starting height	380mm	Motor power	3kw
Parent machine Lifting height	1950mm	drive method	Electro-hydraulic
Sub-machine Lifting height	500mm	hydraulic oil	46#Anti-wear hydraulic oil 16 litres
Mother machine Platform length	5000/5200mm	air pressure	6-8bar
Mother machine Platform width	670mm	operating temperature	5-40°C
Sub-machine Platform Length	1640-1860mm		

LT855A

Big Scissor Lift

LT855 can lift all kinds of vehicles weighing no more than 5500kg, suitable for automobile repair enterprises, tire dealers of various grades of automobiles 4-wheel alignment measurement and automobile overhaul, repair and maintenance. LT855A is equipped with the play detector to check the clearance of the matching parts of the automotive suspension system and steering system.

-  5.5T Lifting Capacity
-  Excellent stability and load-bearing capacity
-  Suitable for 4-wheel alignment solutions
-  Equipped with play detector



Features

1. Large shear structure: The use of large shear structure, the structure has excellent stability and bearing capacity.
2. Lifting function: Can be smoothly lifted to the required working height, with electric or hydraulic lifting system, can accurately adjust the lifting height according to needs.
3. Safety features: Equipped with a variety of safety features, such as limit switches, emergency shutdown devices, overturning protection and collision avoidance devices, to ensure the safety of the operator.
4. Four-wheel positioning function: Equipped with the front wheel pneumatic corner disk and the rear wheel lengthening side slide, suitable for a variety of high-precision four-wheel positioning.
5. Play detector: used to check the clearance of the matching parts of the automotive suspension system and steering system.

Parameters

power supply	220V/380V	Sub-machine Platform width	605mm
Host Rated Lifting weight	5500kg	Weight	3000kg
Rated lifting weight of sub-machine	5500kg	Container loading quantity	20GP-7pcs
starting height	390mm	Motor power	3kw
Parent machine Lifting height	1980mm	drive method	Electro-hydraulic
Sub-machine Lifting height	450mm	hydraulic oil	46#Anti-wear hydraulic oil 16 litres
Mother machine Platform length	5700mm	air pressure	6-8bar
Mother machine Platform width	670mm	operating temperature	5-40°C
Sub-machine Platform Length	1640-1860mm		




LT640

Small Scissor Lift



Scan for more information

LT640 is an in-ground flatbed lift with a lifting capacity of 4.0 tons. It is suitable for rapid maintenance, tire replacement and other work stations.

-  4.0T Lifting Capacity
-  Concealed Flat Plate Structure, In-ground Style for Installation, Small Space Occupation
-  Pipeline Burst Protection Device



Features

1. Hydraulic synchronization, hydraulic lock and mechanical double safety device, automatically unlocking when lowered.
2. 24V safety control circuit.
3. The oil cylinder parts are processed by high-speed fully automatic CNC lathes. It ensures excellent concentricity and smoothness, and the cylinder barrel is rolled and mirrored.
4. Adjustable platform length.
5. Shot blasting surface treatment, high-temperature spray treatment, and durability guaranteed.
6. All shaft positions are equipped with wear-resistant bearings.

Parameters

Rated lifting weight	4000kg	Power	3kw
Initial height	330mm	Power supply	220V/380V
Lifting height	1999mm	Drive mode	Electro-hydraulic
Platform length	1560-1760mm	Hydraulic oil	46# Anti-wear hydraulic oil 16 L
Platform width	565mm	Air pressure	6~8bar
Net weight of the whole machine	761kg	Working temperature	5~40°C

LT640T




Ultra-thin Small Scissor Lift



Scan for more information

LT640T is an ultra-thin flatbed lift that can be installed on the ground. It has a lifting capacity of 4.0 tons and is suitable for rapid maintenance, tire replacement and other workstations.



-  **4.0T Lifting Capacity**
-  **Hydraulic Lock and Mechanical Lock Double Safety Device**
-  **Pipeline Burst Protection Device**

Features

1. Ultra-thin structure, the thickness is only 110mm.
2. Hydraulic synchronization, dual hydraulic system, hydraulic lock and mechanical triple safety device, automatic unlocking when lowered.
3. 24V safety control circuit.
4. The oil cylinder parts are processed by high-speed fully automatic CNC lathes. It ensures excellent concentricity and smoothness, and the cylinder barrel is rolled and mirrored.
5. Cutting with CNC equipment such as lasers. Precise dimensions, flat incisions, high finish. The X frame is made of high-quality steel, laser-cut, solid steel plate, high strength, corrosion-resistant, and not easy to deform.
6. The supportable approach bridge can accommodate more long-wheelbase vehicles.
7. Shot blasting surface treatment, high-temperature spray treatment, and durability guaranteed.

Parameters

Rated lifting weight	4000kg	Power	3kw
Initial height	110mm	Power supply	220V/380V
Lifting height	1830mm	Drive mode	Electro-hydraulic
Platform length	1530-2140mm	Hydraulic oil	46# Anti-wear hydraulic oil 16 L
Platform width	665mm	Air pressure	6~8bar
Net weight of the whole machine	1058kg	Working temperature	5~40°C

LT636T




Ultra-thin Small Scissor Lift



Scan for more information

LT636T is an ultra-thin flatbed lift that can be installed on the ground. Solid structure, high-temperature spray-coated surface treatment and durability.



-  **3.6T Lifting Capacity**
-  **Hydraulic Lock and Mechanical Lock Double Safety Device**
-  **Pipeline Burst Protection Device**

Features

1. Ultra-thin structure, the thickness is only 110mm.
2. Hydraulic synchronization, dual hydraulic system, hydraulic lock and mechanical triple safety device, automatic unlocking when lowered.
3. 24V safety control circuit.
4. The oil cylinder parts are processed by high-speed fully automatic CNC lathes. It ensures excellent concentricity and smoothness, and the cylinder barrel is rolled and mirrored.
5. Cutting with CNC equipment such as lasers. Precise dimensions, flat incisions, high finish. The X frame is made of high-quality steel, laser-cut, solid steel plate, high strength, corrosion-resistant, and not easy to deform.
6. The supportable approach bridge can accommodate more long-wheelbase vehicles.
7. Shot blasting surface treatment, high-temperature spray treatment, and durability guaranteed.

Parameters

Rated lifting weight	3600kg	Power	3kw
Initial height	110mm	Power supply	220V/380V
Lifting height	1880mm	Drive mode	Electro-hydraulic
Platform length	1480-2090mm	Hydraulic oil	46# Anti-wear hydraulic oil 16 L
Platform width	630mm	Air pressure	6~8bar
Net weight of the whole machine	980kg	Working temperature	5~40°C

LT630T

Ultra-thin Small Scissor Lift

LT630T is a mobile scissor lift with a lifting capacity of 3000kg without installation.

- 3000kg lifting capacity
- Mobile without installation
- Ultra-slim design to fit into tight spaces



Features

1. Small size and light weight, no need to install and fix with the ground, easy to move, can be used in multiple positions.
2. Ultra-slim structure design, easy to operate in narrow or limited working area.
3. The mechanical lock device automatically locks when rising, and is unlocked by pneumatic when falling, safe and reliable.
4. Equipped with control system and operation panel, can realize precise height adjustment and lifting control, providing convenient and precise operation experience.

Parameters

power supply	220V/380V	Container loading quantity	20GP-24pcs/40HQ-48pcs
Rated lifting weight	3000kg	Motor power	3kw
Initial height	120mm	Driving method	Electro-hydraulic
Lifting height	1000mm	hydraulic oil	46#Anti-wear hydraulic oil 6 litres
Platform length	1410-2010mm	gas pressure	6-8bar
Platform width	460mm	operating temperature	5-40°C
Net weight	460kg		

LT445

Four Post Lift



Scan for more information

LT445 is a fully automatic control insurance wheel alignment four post lift, equipped with an electronically controlled pneumatic insurance device. This enhances the overall high-level experience and convenience of use. It comes with insurance detection equipment, ensuring safety and reliability. The composite reinforced bridge plate design adds robust support.

- 4.5T Lifting Capacity
- Pneumatic Unlocking with Detection Ensures That the Bridge Plate is Level
- Equipped With Secondary Lifting Mobile Trolley



Features

1. The oil cylinder parts are processed by high-speed fully automatic CNC lathes. It ensures excellent concentricity and smoothness, and the cylinder barrel is rolled and mirrored.
2. Electro-hydraulic system, wire rope transmission, enlarged oil cylinder for smooth lifting and lowering.
3. Shot blasting surface treatment, high-temperature spray treatment, and durability guaranteed.
4. Four-sided wire rope balance, very suitable for four-wheel alignment.
5. Fully automatic control of pneumatic unlocking belt detection.

Parameters

Power Supply	220V/380V	Inner Distance of Runway	910~1010mm
Main Unit Rated Lifting Weight	4500kg	Net Weight	1245kg
Trolley Rated Lifting Weight	2000kg	Power	2.2kw
Initial Height	210mm	Drive Mode	Electro-hydraulic
Main Lift Lifting Height	1700mm	Hydraulic Oil	10L 46# Antl-wear hydraulic oil (self-purchase)
Jacking Beam Rise	480mm	Air Pressure	6~8bar
Platform Length	4510mm	Working Temperature	5~40°C
Distance Between Columns	2830mm		