LAWRENCE

Non-damage Auto Service

WHEEL ALIGNER

WHEEL BALANCER

TIRE CHANGER

20 YEARS

Non-damage Auto Service

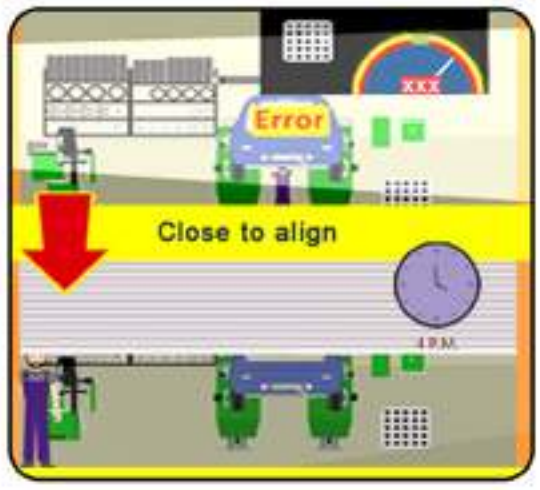
YOU SHOULD KNOW THAT !

The rim is damaged

A clamp-rim type wheel clamp will cause permanent damage to the rim
This kind of damaged service will lose customers

The steering wheel is not straight

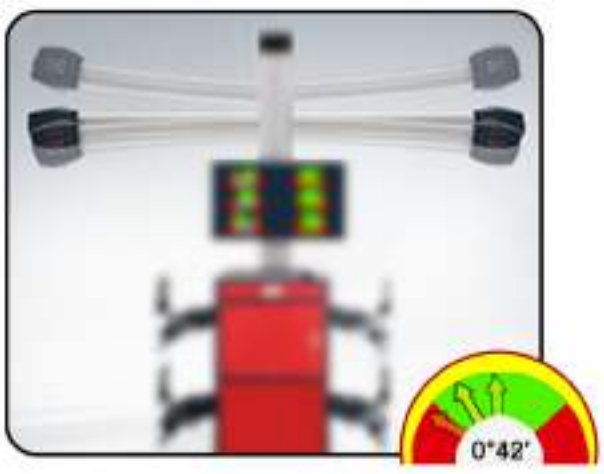
For old vehicles over 3 years old, the steering wheel cannot be adjusted at one time
About 70% of the vehicles on the market are more than 3 years old, and the steering wheel cannot be adjusted at one time in the traditional way



Targets are easily affected by strong light

The wheel aligner loses signal due to strong light interference, and the user must close the door for alignment

Say no to door-closed wheel alignment

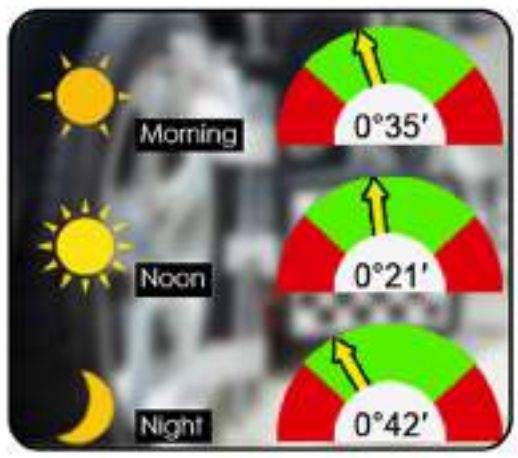


The beam with thin materials has insufficient strength

The data is unstable and can't ensure accurate measurement. The beam is easily deformed and needs frequent calibration

Low wheel alignment efficiency

Repeated road test measurement and adjustment (1.5H is required)
Users need to wait for a long time and have low satisfaction



Measurement data is unstable when affected by light

Measurement data is easily disturbed by external light
The results of the morning, noon, and evening tests are different

Accurate measurement life is short (Usually less than 1 year)

Once the clamp or target is deformed, the accuracy is greatly reduced
Require frequent calibration
With a shorter measurement life and a higher after-sale cost

Inferior hardware & System limitations

Over 20-year-old technology with low measurement accuracy
Unable to support the new Windows system
Use second-hand hardware for PC with more after-sale problems

Touchless wheel clamp #1

Quick and protective touchless wheel clamp

Clamps hook tires and protective ring provides no metal-to-metal contact

Support 18''-43.5'' tires

* Light and durable, only 2.6 kg, lighter by about 57% than traditional clamps

* Tough magnesium alloy material can withstand accidental drops of 2 meters

* Easy to clean, not easy to leave oil stains or rust

* With torque-limiting device, don't worry about damage to the wheel clamp

No metal-to-metal contact, avoid rim damage

Dynamic technology calculates actual wheel position regardless of clamp tire tightly

NON-DAMAGE AUTO MAINTENANCE SERVICE, IMPROVE YOUR COMPETITIVENESS

Touchless wheel clamp #2

We have

Entered the era of touchless alignment

Currently, all major brands in the world are developing and promoting touchless wheel alignment technology, LAWRENCE is the 3rd manufacturer (2014) to own this technology

Touchless wheel clamp VS Traditional wheel clamp

* Touchless wheel clamps are suitable for more than 95% cars and are superior to traditional clamps, with higher efficiency

Misunderstanding

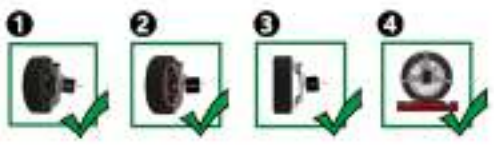
Touchless wheel alignment is not just changing the wheel clamp

* Touchless 3D wheel alignment is not just achieved by changing the touchless wheel clamp, it requires powerful dynamic technology to support it

Dynamic technology VS Static technology

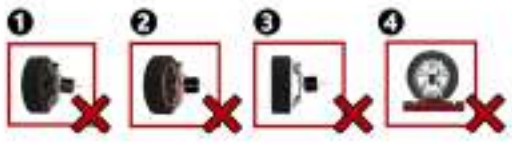
DYNAMIC

Dynamic technology simulates the state of wheel rolling by pushing measurement to get real-time data of wheel dynamics for digital model regeneration, which can effectively fit errors caused by deformation of the rim, wheel clamp and target, accurate life is more than 15 years



STATIC

Static measurement technology measures the position and spatial parameters of the target (not for the wheel). If the clamp, target, or rim is deformed, which changes from the factory calibration data, then larger errors will occur, accurate life may be only 1 year



After 6 months, you will meet the following situations:

1

2

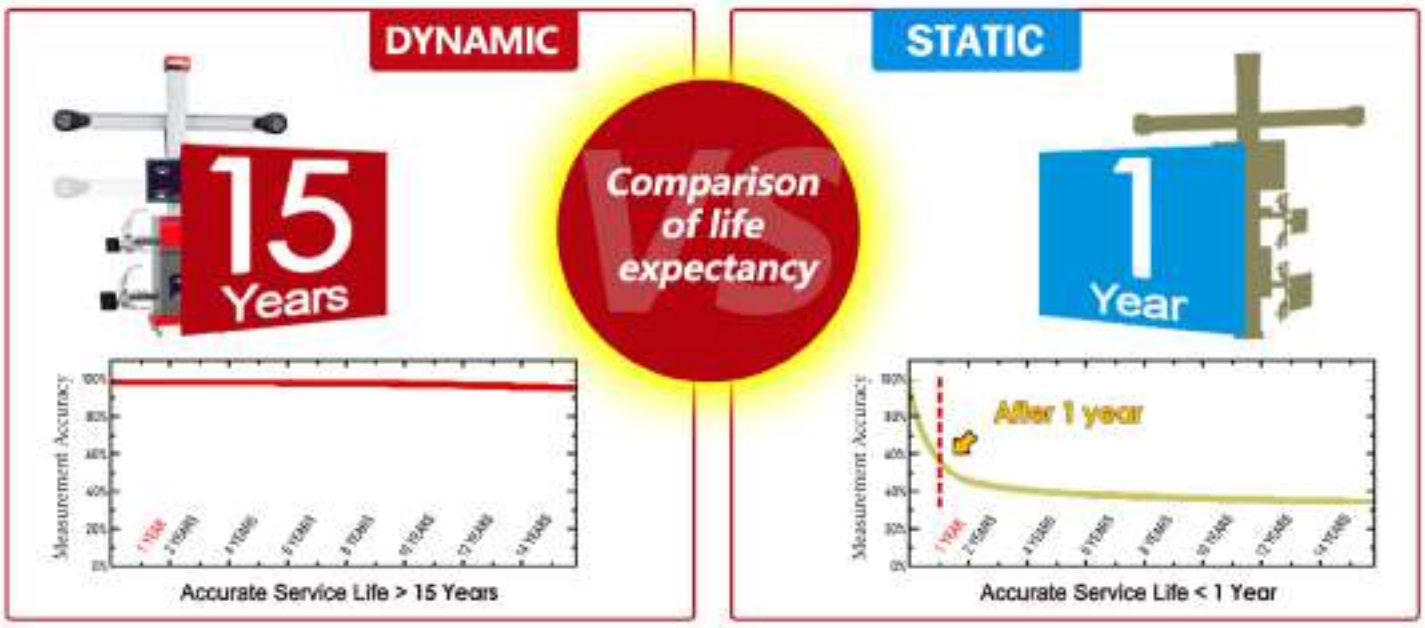
3

4

Accurately measure life comparison

The 15 years
of accurate measurement life are derived from Lawrence Laboratories' continuous tracking and observation of the first-generation products released in 2008

Accurate measurement means that the difference between the wheel aligner's measurement results and the actual value is very small (usually we think of it as less than 0.1°)



Wheel alignment with super compensation system enables touchless measurement

The super compensation system is not an ordinary rolling compensation
There are only a few of wheel alignments with this super compensation system on the current market

A: Although static technology products are cheap after one year of use, the measurement errors become larger, and they lose their property as measuring instruments and become mere decorations

B: Only 5% of manufacturers on the market have dynamic technology. Many products claim to have dynamic technology, but most of them are false, so please be careful to identify such falsely advertised products

Buying Suggestion:

✗ Static technology wheel alignment

A. Once the target or clamp is deformed, the data is not accurate
B. Requires strict operating requirements and professional operating skills
For example, the clamp needs to clamp the rim or tire tightly

Conclusion:
This kind of product requires high operation skill, which is not user-friendly for new users, and the accurate measurement life is very short

✗ Semi-dynamic technology for wheel alignment

A. Contains some dynamic technologies
B. It requires regular calibration of the clamp and target (usually 3–4 weeks) to ensure accuracy

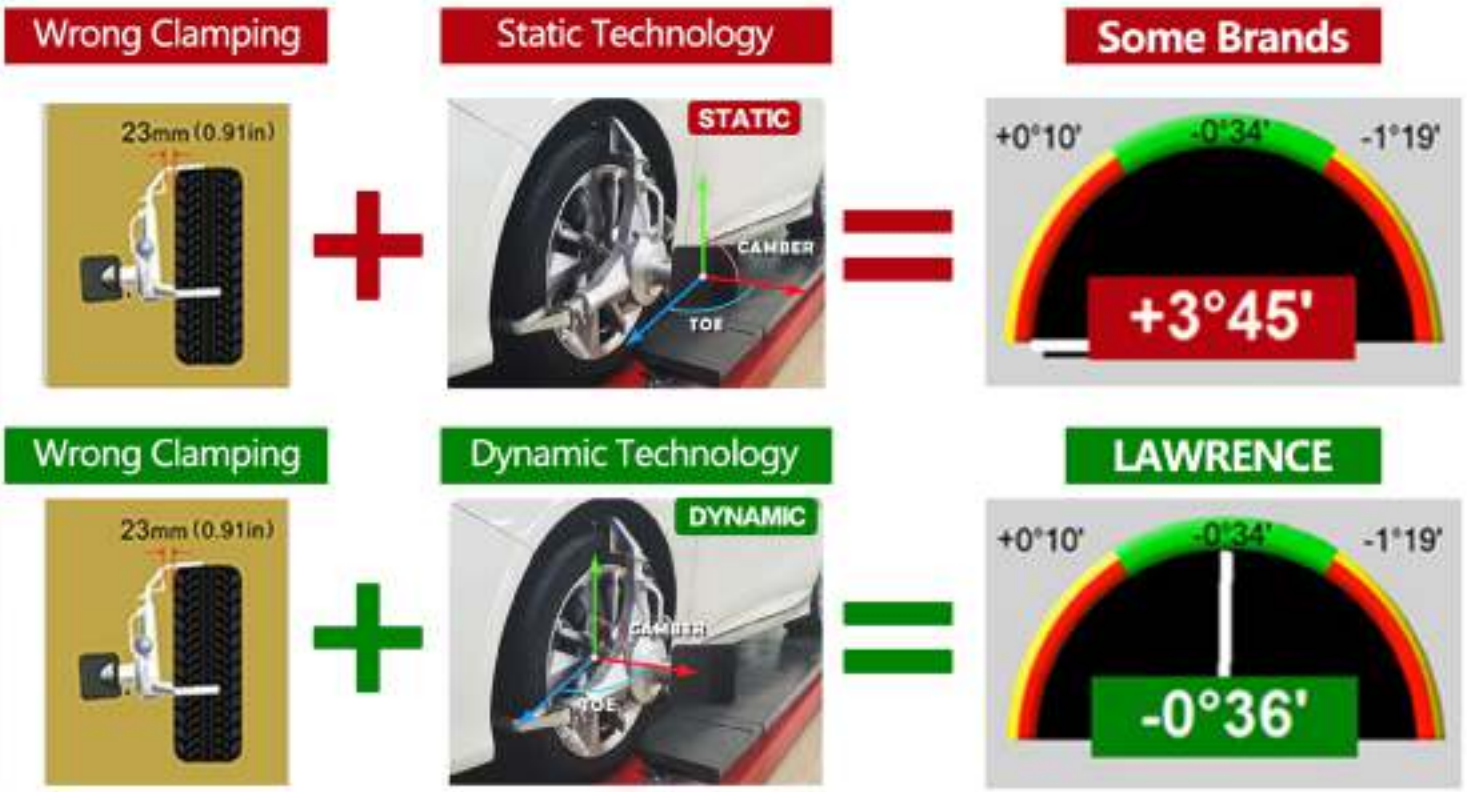
Conclusion:
This kind of product requires frequent calibration, and the measurement will be wrong before calibration

✓ Real dynamic wheel alignment

A. No need to do the on-road test, no need to adjust the car based on rich experience, new user can use it so easily
B. Accurate measurement life is more than 15 years

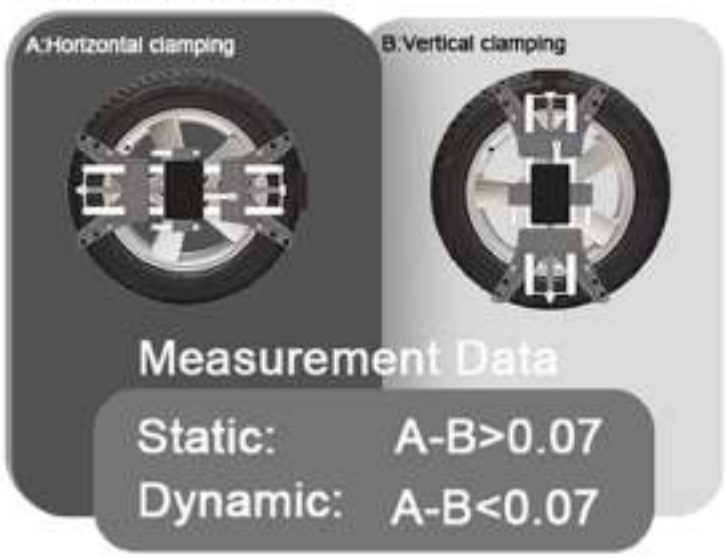
Conclusion:
Dynamic technology is currently the most advanced core technology in wheel alignment, and only a few brands have this technology

Under the same condition, comparison between the measurement results of two technologies

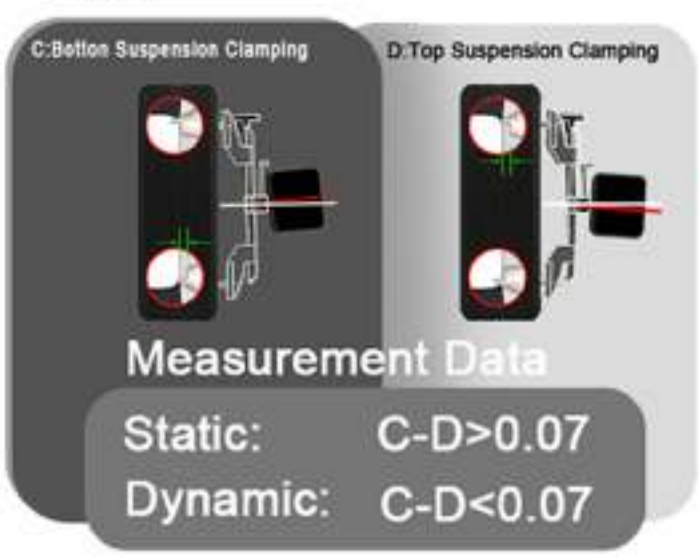


How to identify static technology and dynamic technology

Method 1:
Horizontal & Vertical Clamping Comparison Method



Method 2:
Suspension Clamping Comparison Method

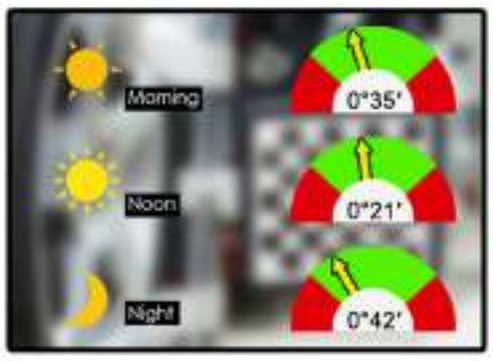


Most products on the market don't have dynamic technology. For static technology products, the pushing measurement is only averaged and can't effectively eliminate the errors caused by the deformation of the clamp, target, or rim, which makes the error very large. The core of dynamic technology is the supercompensation system, which reconstructs the wheel state through advanced AI technology to get close to real measurement values. Even if the clamp, target, or rim is deformed, this can ensure the data is accurate

Refuse the sunlight interference

What problems will you meet when using ordinary targets

Many wheel alignments are easily disturbed by external light. In this case, they have to close the door for alignment



WHY

For some ordinary targets, under the same test condition, the data measured in the morning, noon, and night are very different

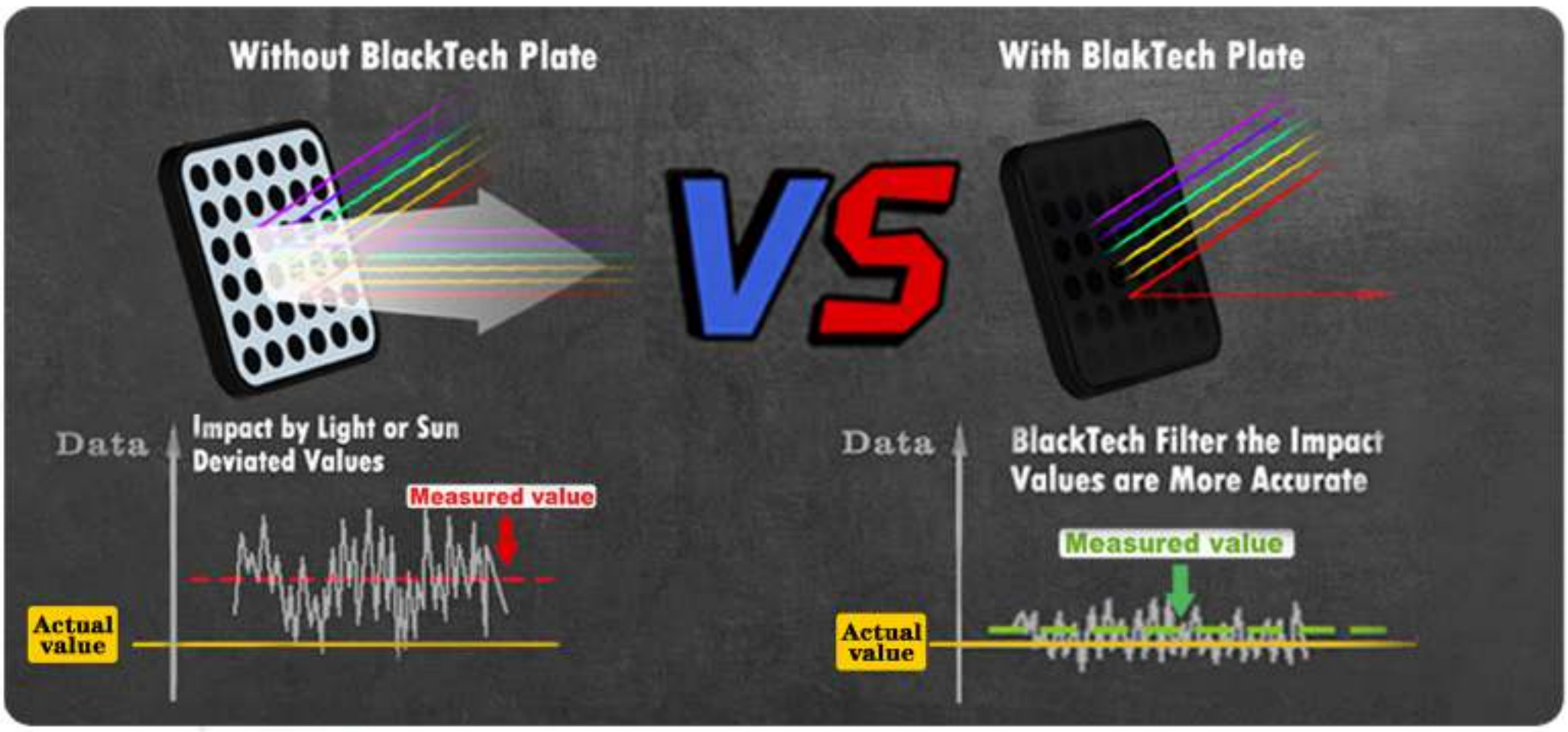
Ordinary targets are easily affected by external light, and mirror reflection makes the images not clear and data not accurate

Lose Your Business

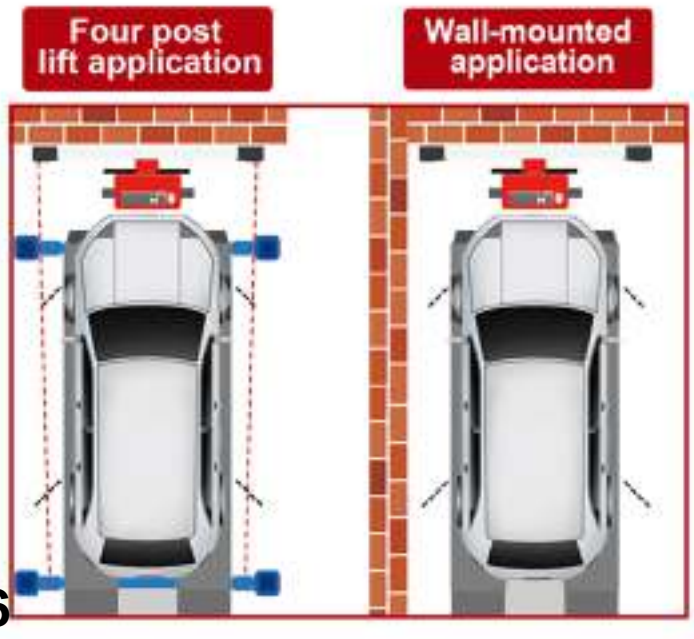
The wheel aligner collects data by capturing the target pattern with the camera. When the sunshine is strong in the afternoon or when the snow is reflective in the winter, the cameras of many wheel aligners cannot clearly capture the target pattern, which causes measurement interruptions and requires closing the door to align. The door-closed wheel alignment will make you lose many customers

See what black-tech target can generate for your business

Say goodbye to the door-closed wheel aligner to retain more customers



Smaller target supports measuring wider vehicles



Generally, in the same working space, smaller targets can support wider vehicles, reducing restrictions on site and car lift

Helping you easily deal with various oversize, high-end luxury cars and SUVs

Easy pushing , just need one time

According to statistics, more than 70% of users skip the step of pushing measurement. The following are the reasons:

A. Users don't master the tips of pushing measurement, it is difficult to push a heavy vehicle

B. When the user is pushing the car on the rear wheels, the car body will hide the monitor, making it difficult for the user to observe the monitor. The user has to push the car repeatedly. It usually requires two people to work together, which wastes so much time and labor

C. There is no Image Stability Monitoring System, so it often pushes 3 to 5 times to finish the pushing measurement

Easy pushing

Global Patent *SMART-WIN* Function

SMART-WIN helps you know the status in real time
Without repeated pushing measurement or assistance from others

Scenario Simulation
Pushing Measurement

Without pushing measurement, it can't compensate the deformation of clamps, targets, and rims

It is also impossible to eliminate the wheel clamp installation error.There must be a very large deviation in the measured results that loses the meaning of measurement

Just need one time

Image Stability Monitoring System

During the process of pushing measurement and kingpin measurement, due to the following reasons:

1. Human operation
2. Vibration of the car lift
3. When the car body moves, the target will vibrate greatly, which causes the image to not be clear

Wheel alignment without an image stabilization system is unable to recognize these blurry images and requires repeated pushing or kingpin measurements until the image is clear and can be calculated. This process may need to be repeated many times

* ***Lawrence's*** self-developed image stabilization system adds an image stabilization monitoring system during the pushing measurement and kingpin measurement. It can compare and restore multiple images to eliminate blurred images and the possibility of repeated measurements due to blurred images. It only takes one time to complete the pushing measurement and kingpin measurement, making the work more efficient and the data more accurate

The self-developed image stabilization system is not afraid of the vibration during the pushing measurement, without repeated pushing measurement

Without image stabilization system, Possible for repeated pushing measurement

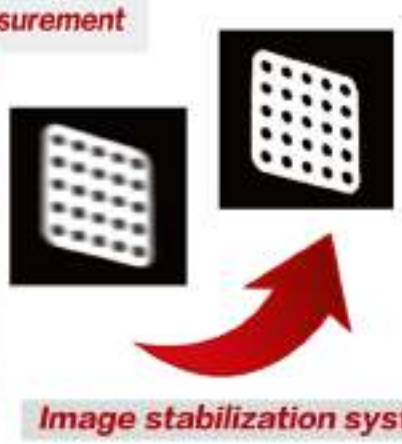


Image stabilization system

IAA auto tracking system

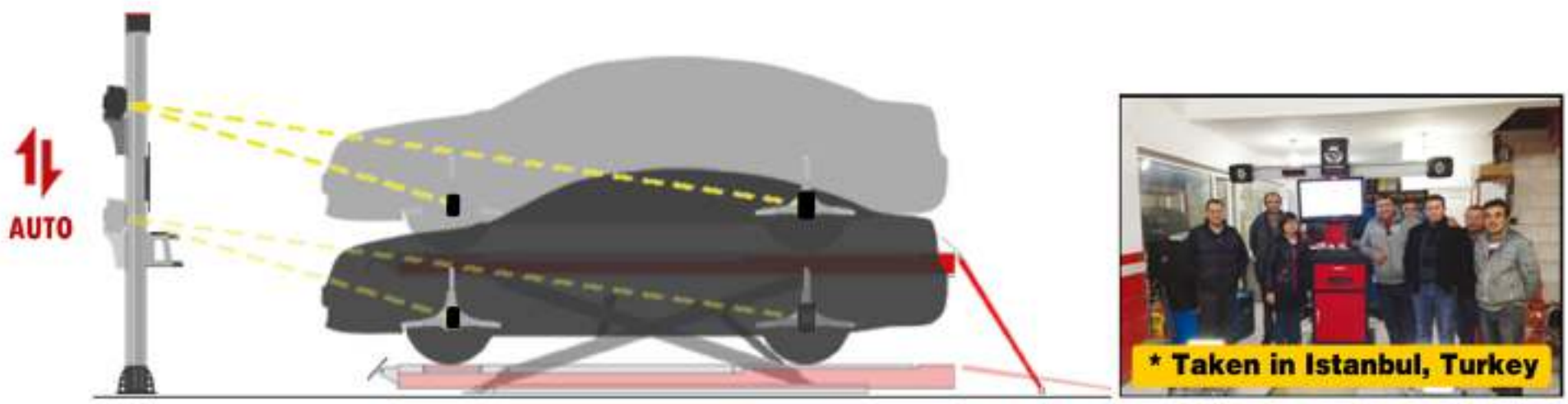
After 15 years of application and technology iteration, smarter and safer

1.The 1st generation IAA has the function of intelligently tracking the target by the camera beam. It was the first time in the world to achieve this function. It adjusts the height of beam automatically by software and PC, which is faster and more accurate than manual adjustment

2.The 2nd generation IAA adds the intelligent search target function and full-time intelligent tracking function under any adjustment status

3.The 3rd generation IAA adds the adaptive function of vehicle wheelbase. It can automatically adjust the height of the crossbeam according to the length of the vehicle's wheelbase, prevent the target from appearing at the edge of the camera lens, and ensure the accuracy of the data

Lawrence developed the world's first 3D wheel aligner with IAA system in 2008

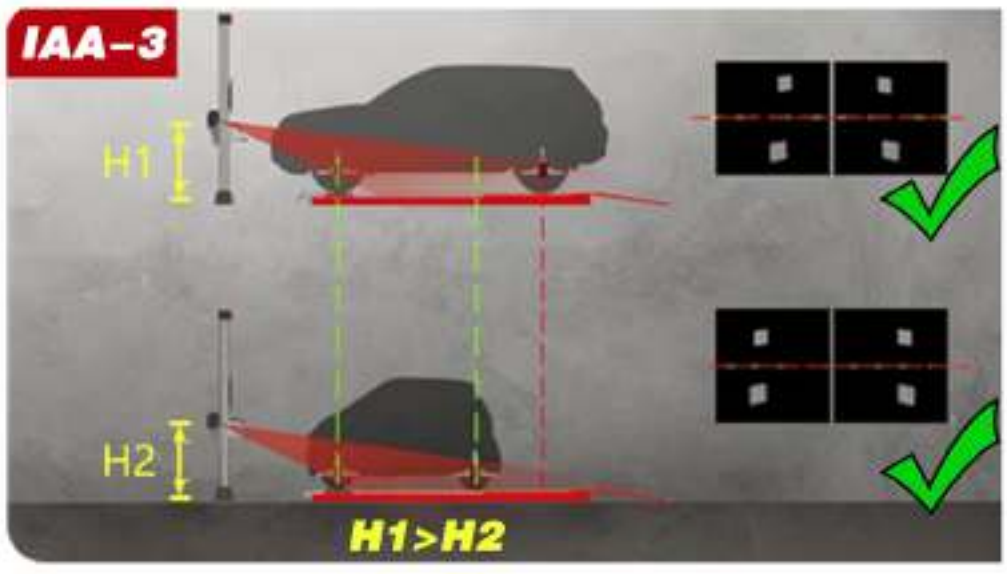


Measure in a low position and adjust in a high position, people and vehicles are safe

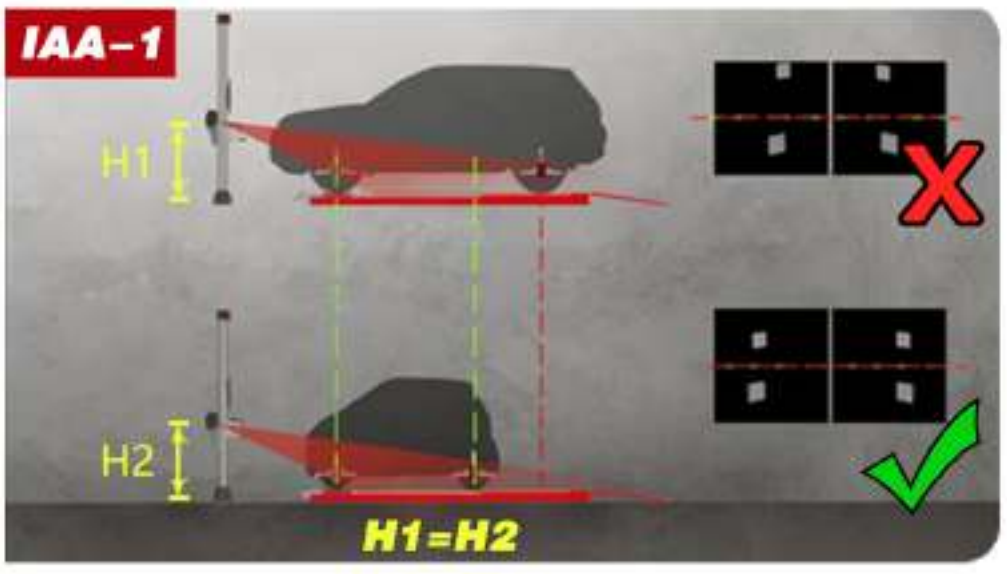
The 3rd generation IAA function, more advanced and smarter

* Lens distortion will cause distortion of the pattern, especially the distortion at the edge of the lens is more serious
* If the target pattern is at the edge of the camera lens, the measurement data will be inaccurate due to image deformation

The 3rd generation IAA lifting system can adjust the height of the crossbeam automatically according to the length of the vehicle's wheelbase, preventing the target from appearing at the edge of the camera to ensure accurate data



IAA-3: Suitable for vehicles with different wheelbase



IAA-1: For vehicles with long wheelbase, the measurement may have errors

Richer body data

Provides corresponding data for the chassis deformation of the accident vehicle to increase profits

Accident car repair process

Accident vehicles need to be transported to the BODY AND RESTORATION SHOP for repair and then returned for alignment

It is hard to control time costs, and the delivery cycle of vehicles is longer and more expensive

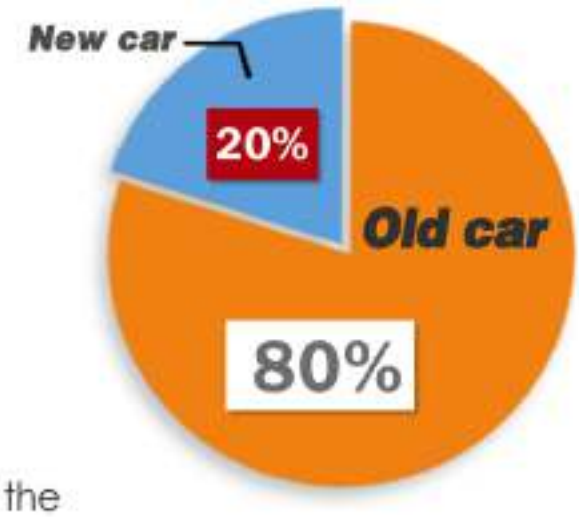
Offers corresponding data for the chassis deformation of the accident vehicle
No need to look for a body repair shop again, saves more time

LAWRENCE offers one-stop service for accident vehicles

Reduce the transportation costs of accident vehicles, control time costs easily, perform repairs and aligning in the same repair shop to increase profits!

SMART-TOE 1

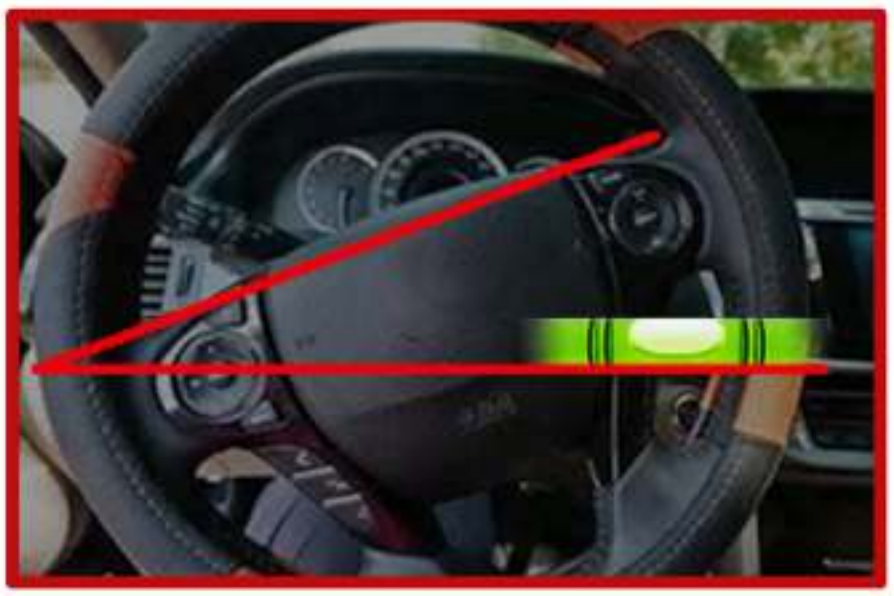
Cover more potential customers

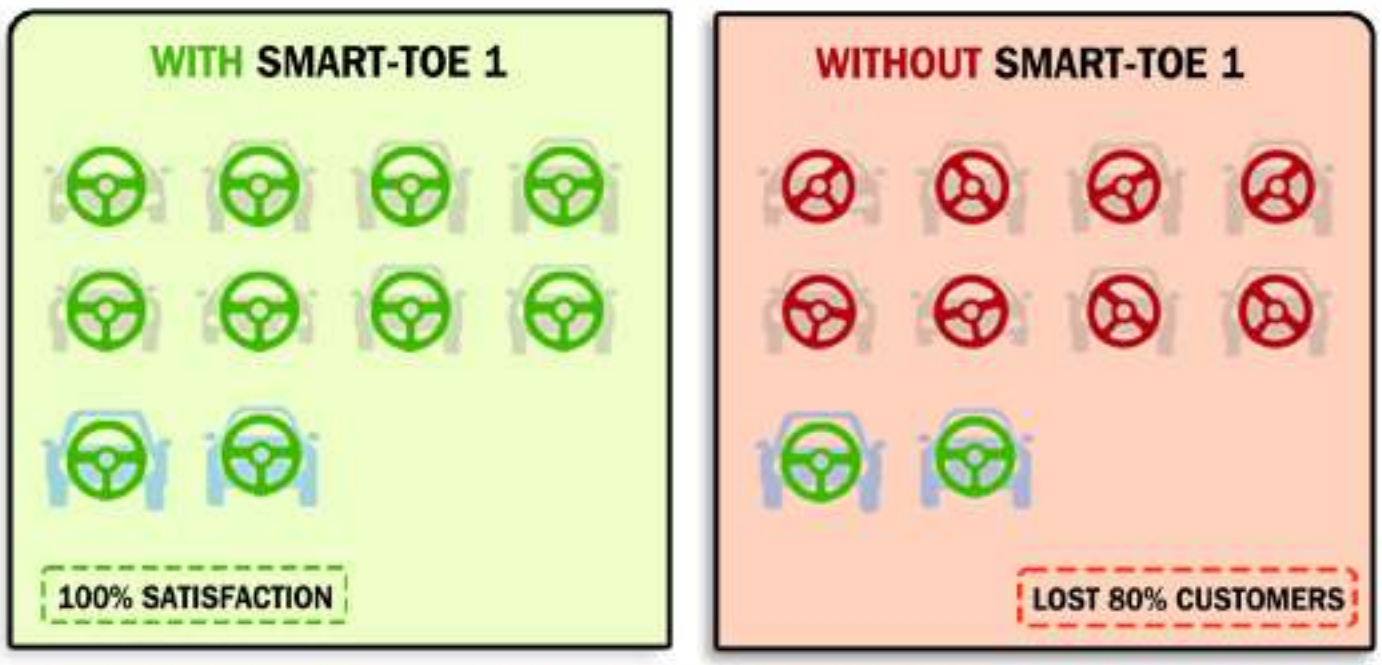


Vehicle amounts

- New car 0~3Years
- Old car 3~15Years

For old vehicles over 3 years, the steering wheel cannot be adjusted at one time





The leading SMART-TOE1 function makes it easy to measure toe angle quickly and accurately, even on older vehicles, helping you increase customer coverage (old vehicles account for 80%)

PASS FAIL

New car Old car

*** It can ensure a straight steering wheel every time without repeated adjustments or using a steering wheel holder**

*** Adjust the steering wheel at only one time**

SMART-TOE 2

Normal Mode Adjustment

Require Smart-Toe 2 for Adjustment

The global advanced SMART-TOE 2 function can help you easily solve the toe problems of special car models, such as some cars with a cover on the car bottom, off-road vehicles, and so on

*** It helps you cover more customers for special car models**

Higher work efficiency & better customer experience

PROCESS OF SOME ALIGNMENTS
Total: 1h30min

Consult the owner about the driving condition (5min) → An on-road test before adjustment (20min) → Observe the tire for prediction (5min) → Aligning measurement and adjustment (30min) → On-road test after adjustment (20min) → Adjust again (10min) → Return the car

VS

PROCESS OF LAWRENCE' S
Total: 30min

Aligning measurement and adjustment (30min) → Return the car

Adjust the car according to the measurement parameters of the aligner
Rich experience is not required

THREE GENERAL STEPS FOR ALIGNING

A. It requires an experienced alignment technician to make prejudgments through consultation and on-road testing

B. On-road test again after adjustment, and make a second adjustment based on experience

C. If the technician is not experienced enough, multiple adjustments may be required

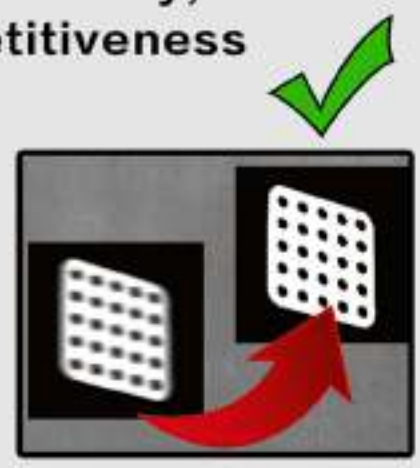
Cheap products will cause you to lose many potential customers

1. Waiting for a long time means rejecting a lot of potential customers
2. Inaccurate measurements require repeated on-road testing, which makes making money less efficient
3. Excessive consumption of customers' fuel and poor customer experience
4. Repeated on-road tests may lead to traffic accidents
5. Rely on experience for measurement and adjustment, which require more strict operation skills and higher labor costs

LAWRENCE– ONE STEP FOR ALIGNING

Just adjust it once, without repeated on-road tests
The efficiency will increase by 300%

LAWRENCE brings you an efficient aligning experience, reduces labor costs and risks, makes profits efficiently, and enhances competitiveness

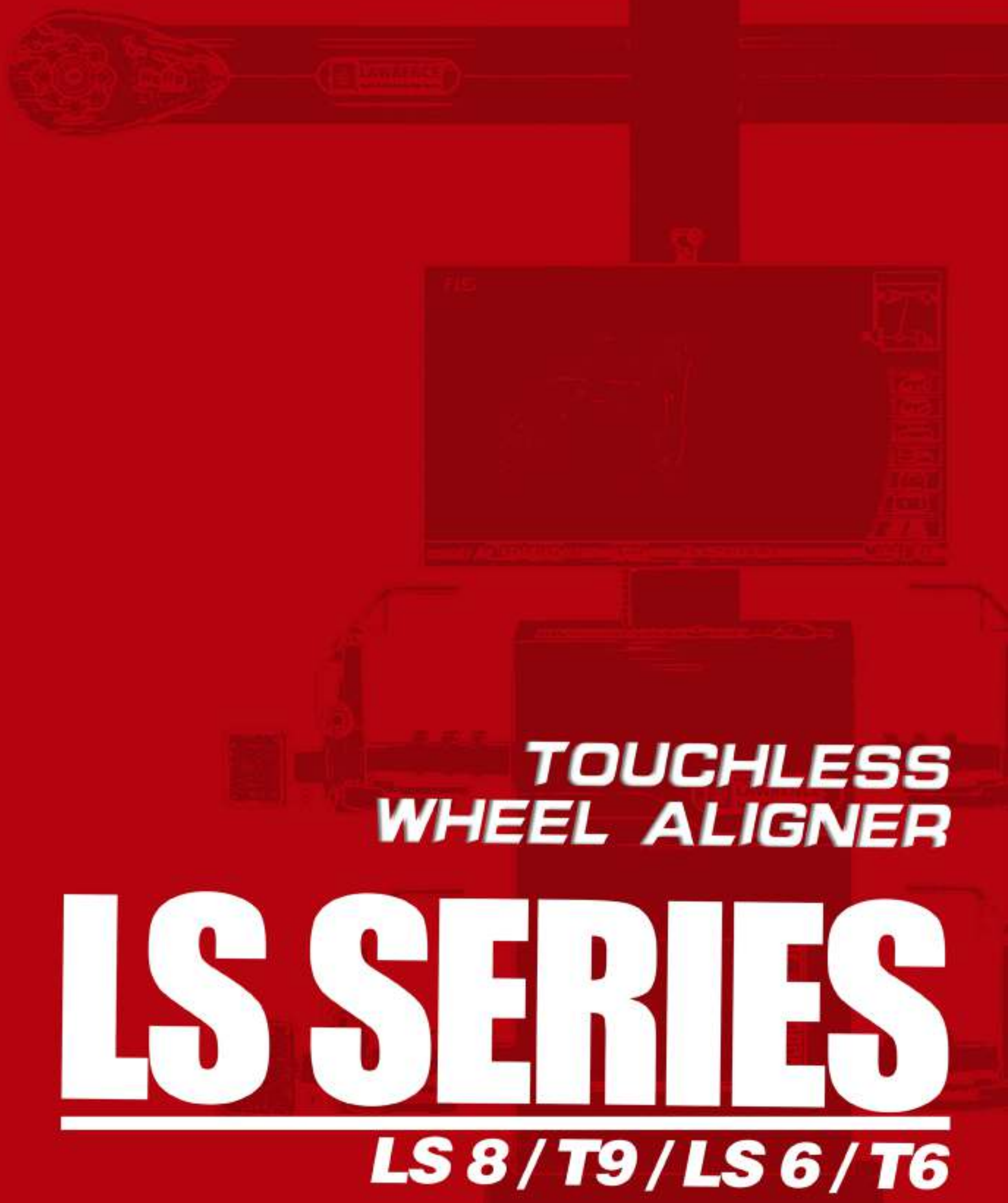


Using higher-standard brand cameras and black-tech target technology to ensure data is more accurate

The image stabilization system and dynamic technology effectively reduce errors from operation and mechanical deformation, ensuring accurate measurements every time !

LAWRENCE

Non-damage Auto Service



TOUCHLESS
WHEEL ALIGNER

LS SERIES

LS 8 / T9 / LS 6 / T6

TOUCHLESS WHEEL ALIGNMENT

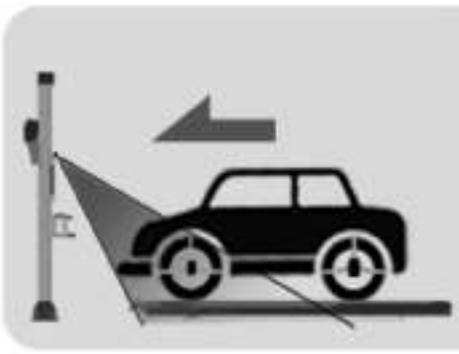
NON-DAMAGE AUTO SERVICE

LS8+ LS6

T9+ T6

1. TOUCHLESS MEASUREMENT TECHNOLOGY,AVOID RIM DAMAGE
2. SMART-WINDOW FUNCTION (PATENTED)
3. THE 3RD GENERATION IAA AUTO LIFTING SYSTEM (LS8\T9)
4. ADVANCED DYNAMIC MEASUREMENT TECHNOLOGY
5. MINI BLACK-TECH TARGET (ONLY 139MM X 139MM)
6. 3D DYNAMIC WHEEL ALIGNMENT SOFTWARE (TOP2 IN THE WORLD)
7. SMART-TOE FUNCTION (TOP2 IN THE WORLD)
8. S.A.I (KINGPIN) ADJUSTMENT FUNCTION

More functions, more guarantee



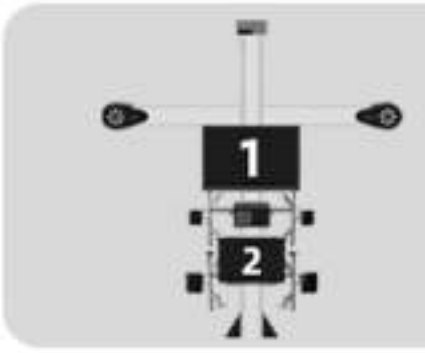
Drive-on camera

Support more than 100 languages around the world

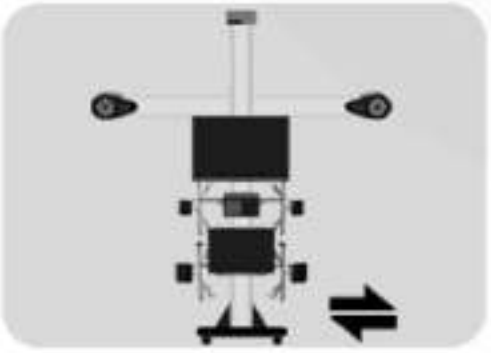
Multi-language voice broadcast

Hand-held aligner

Support the latest version of the system



Optional dual-screen version

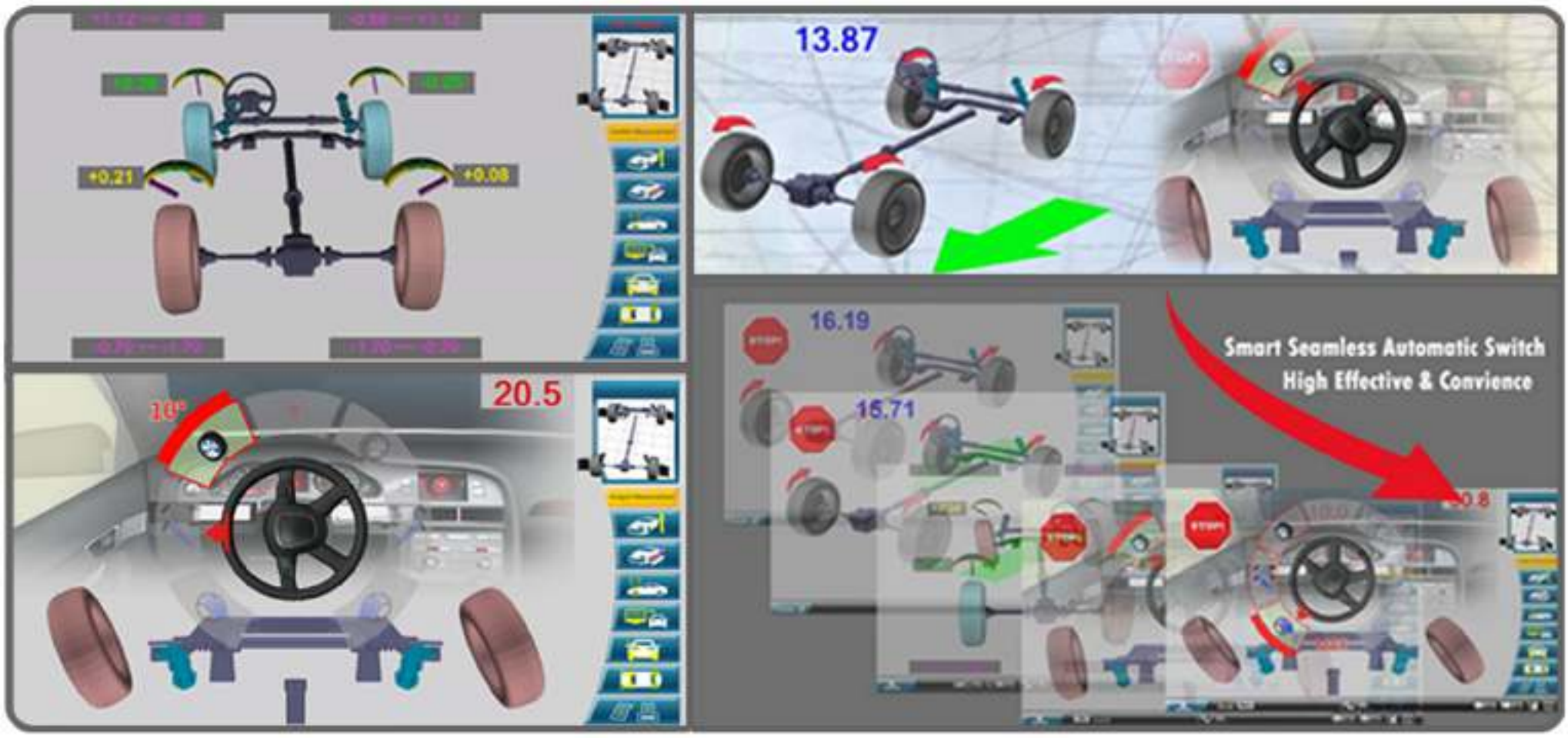


Optional movable version

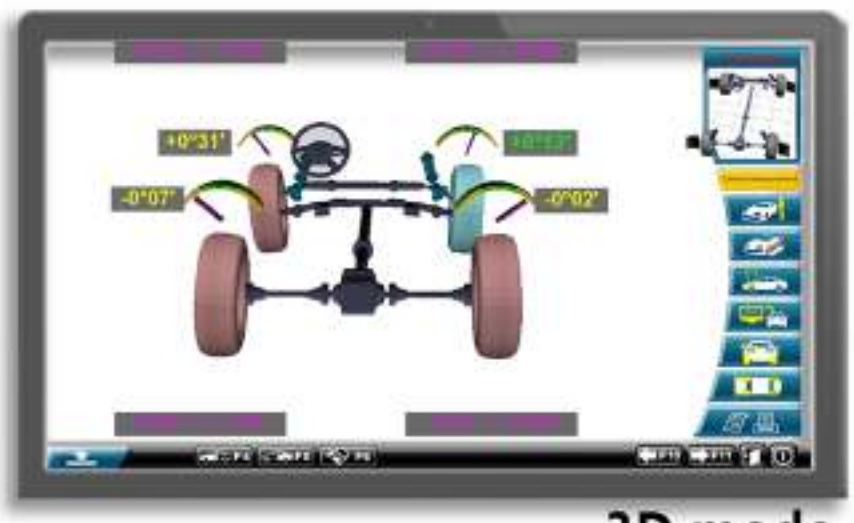
3-year warranty for core parts

GLOBAL-LEADING 3D WHEEL ALIGNMENT SOFTWARE

Automatic switching, no manual operation required to complete the measurement



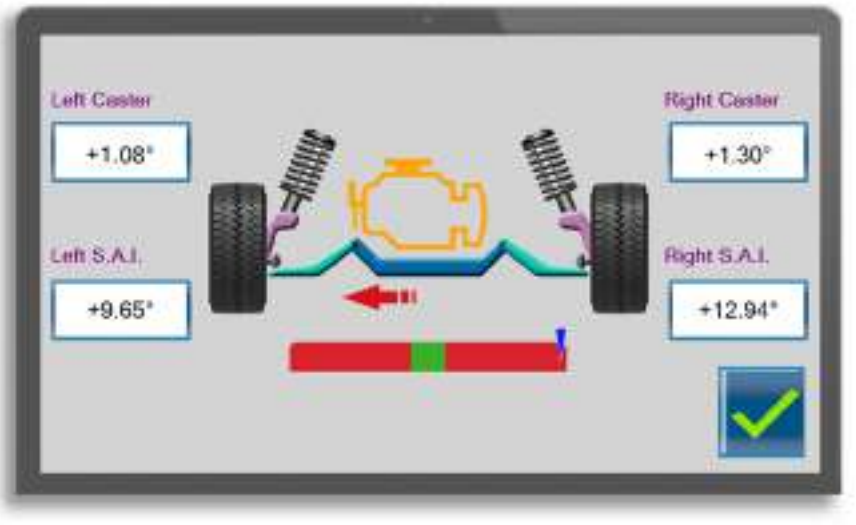
3D mode and 2D mode are available



3D mode

2D mode

S.A.I adjustment function



GLOBAL-LEADING 3D WHEEL ALIGNMENT SOFTWARE

Jack-up adjustment function

Quick mode & Expert mode

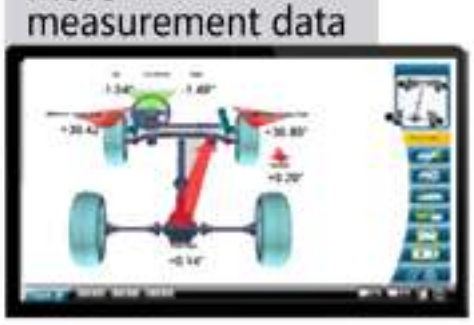
Quick mode

Expert mode

3D animation prompt operation

3D teaching video

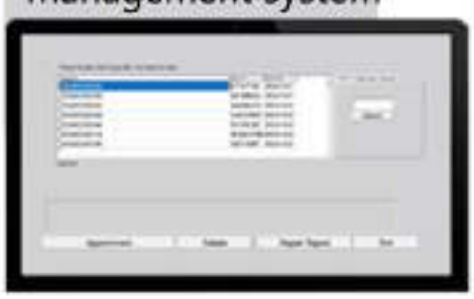
More measurement data



More vehicle chassis data

More than 60,000 vehicle data

Customer management system

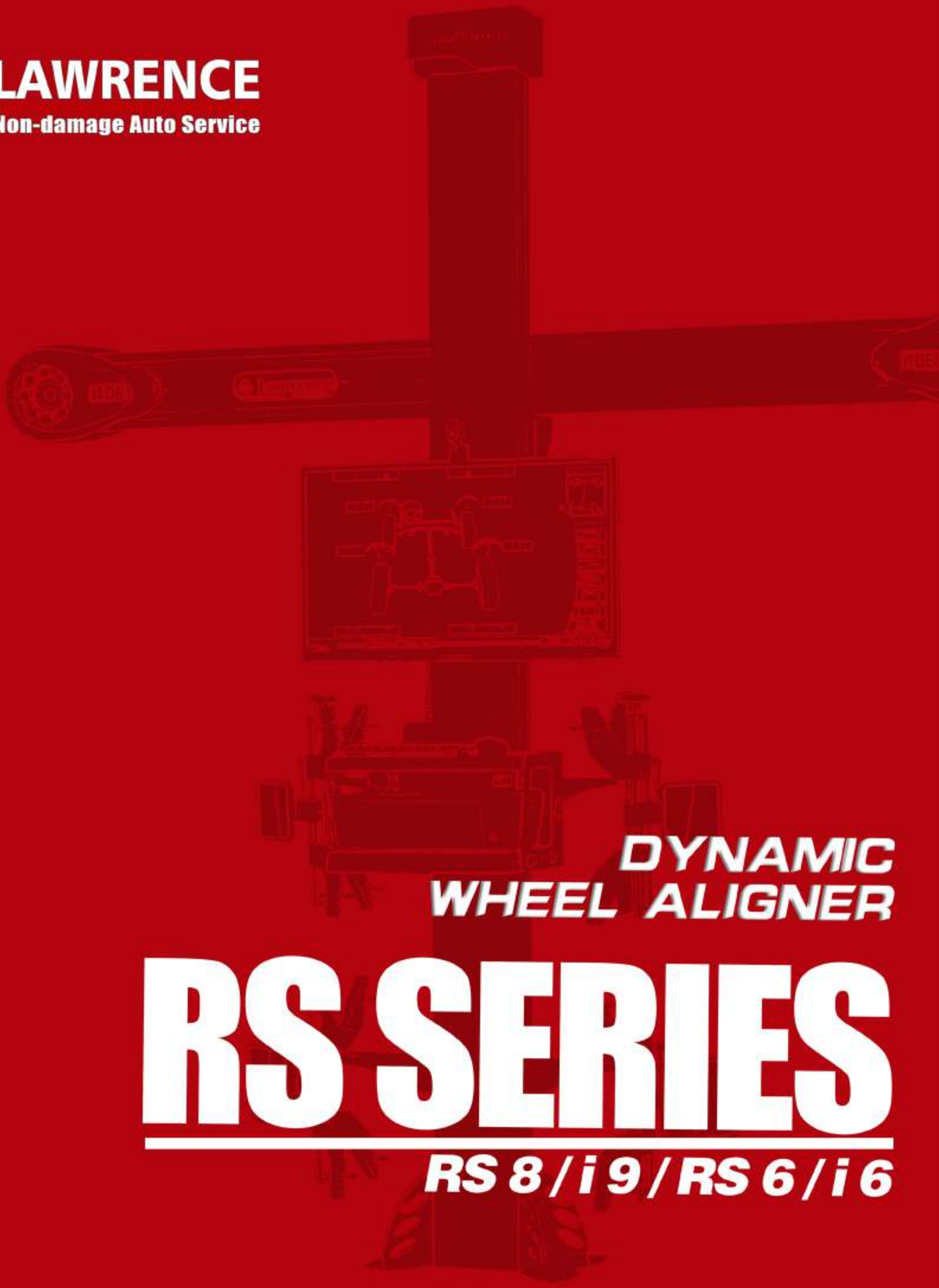


Print report

Steering wheel prompts

LAWRENCE

Non-damage Auto Service



DYNAMIC
WHEEL ALIGNER

RS SERIES

RS 8 / i 9 / RS 6 / i 6

DYNAMIC WHEEL ALIGNMENT

ADVANCED DYNAMIC MEASUREMENT TECHNOLOGY

RS8+ RS6

i9+ i6

1. SMART-WINDOW FUNCTION (PATENTED)
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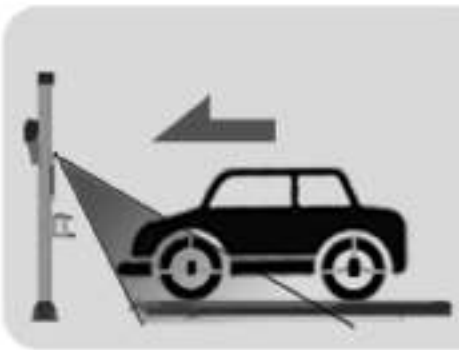
8. CAR BODY MEASUREMENT DATA FUNCTION

More functions, more guarantee



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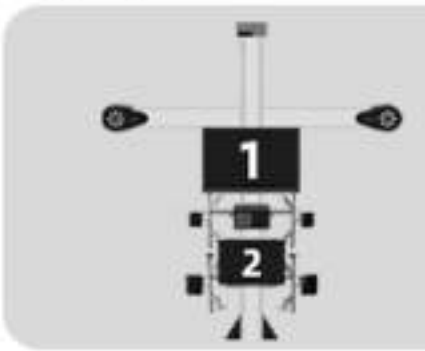
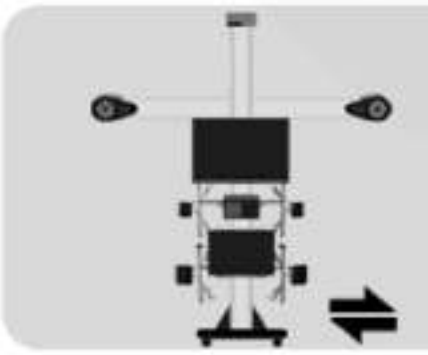


Optional dual-screen version



Optional movable version

3-year warranty for core parts

DYNAMIC 3D WHEEL ALIGNMENT

X SUPER SERIES

X56 / X58 / X96 / X98

XSUPER SERIES

ADVANCED DYNAMIC MEASUREMENT TECHNOLOGY

X98

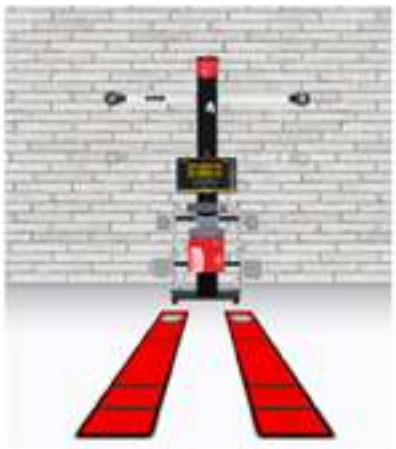
X96

X58

X56

1. 5MEGA PIXEL SONY INDUSTRIAL CAMERA
2. THE 3RD GENERATION IAA AUTO LIFTING SYSTEM (X98\X96)
3. DYNAMIC MEASUREMENT TECHNOLOGY
4. BASIC CAR BODY MEASUREMENT DATA FUNCTION
5. 3D TEACHING VIDEO
6. JACK UP ADJUSTMENT FUNCTION
7. IMAGE STABILIZING SYSTEM
8. TOE-OUT-ON-TURN MEASUREMENT

Installation scheme



More functions, more guarantee

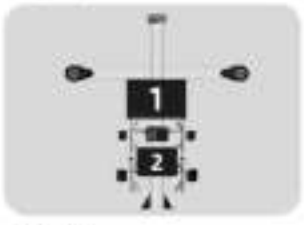
Drive-on camera

Support more than 100 languages around the world

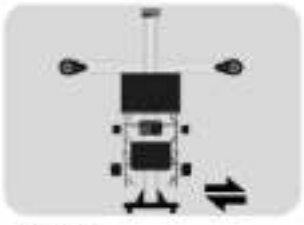
Multi-language voice broadcast

Support mini scissor lift & two post lift

Support the latest version of the system



Optional dual screens version



Optional movable version

1-year warranty for core parts

Dual Screens (Optional)

GLOBAL-LEADING 3D WHEEL ALIGNMENT SOFTWARE

Automatic switching, no manual operation required to complete the measurement

3D mode and 2D mode are available

3D mode

2D mode

Jack-up adjustment function

Fast entry of vehicle data

Quick mode & Expert mode

Quick mode

Expert mode

3D animation prompt operation

3D teaching video

More measurement data

More S.A.I data

More than 60,000 vehicle data

Customer management system

Print report

Vehicle mileage management

CUBE8

Wall- and ceiling- mount configurations are good for workshop with limited space

DUAL-COLUMN DESIGN

Exquisite and fashionable, saving space for installation and operation greatly

CUBE10

Designed Specially for Pits

On-site calibration, more precise

Optional Display System

- ✔ CUBE 10+: Dual display system
- ✔ CUBE 10: Single displays system

STANDARD CONFIGURATION

3D Alignment Program, Aluminum Column, Collapsible Console, Four Wheel Adaptors, Unique Black Tech Targets, Branded Computer, 21.5 inch Monitor, Branded Printer, Drive-on Camera, Mouse, Keyboard, Turnplates, Wheel Chocks, Steering Wheel Holder, Brake Pedal Depressor, Antistatic Needle

TECHNICAL PARAMETERS

Measurement Function

Basic Measurement: toe, camber, caster, kingpin inclination, setback, thrust angle
Additional Functions: Smart Toe, max turning angle, toe-out-on-turn, tire radius, tire rotations rate, axle offset, wheel offset, track/wheelbase, vehicle lifting measurement, alignment platform level detection, toe constant value measurement

Measurement Range and Accuracy

Items	Camber	Caster	S.A.I.	Toe	Setback	Thrust Angle	Wheel Offset	Axle Offset
Range	±45°	±40°	±40°	±30°	±5°	±5°	—	—
Accuracy	±1′	±1′	±1′	±1′	±1′	±1′	±1mm	±1mm

Equipment Specifications

1	Operating Temperature	-30°C ~ 50°C
2	Power Consumption	300W ~ 350W
3	Size of Target	139mm * 139mm
4	Tire Diameter	457.2mm ~ 1104.9mm
5	Rim Diameter	11" ~ 22"
6	Track Width	1220mm ~ 2450mm
7	Wheelbase	1600mm ~ 4700mm
8	Power Requirement	110-240V (50/60Hz)
9	Rolling Compensation Style	Backward / Forward
10	Camera Resolution	5px or 6.4px
11	Suggested Distance from Camera to Turnplate	1.5m ~ 3m

LAWRENCE

Non-damage Auto Service

TOUCHLESS

TIRE CHANGER

X618 / X306 GT / X306

YOU SHOULD KNOW THAT !

You may encounter these troubles when using the traditional tire changer

Easily damage rims

Using a bead breaker, lever, or wrapping it in a plastic protective cover may damage the rim

Unable to support run-flat tires

The market share of run-flat tires has exceeded 15%. If you cannot remove the run-flat tires, it means you will lose these customers

Hard to remove over 24" tires

Most ordinary tire changers can only remove 10"-24" tires, which is hard to handle for high-end cars and modified cars

Waste time and labor

Need to use tools for forced disassembly, which requires workers to waste a lot of strength and time

Inferior parts break easily

Traditional tire changers need to lift the tire repeatedly, putting workers at risk of lumbar muscle injury

100-240V (50/60HZ) 1PH

Without a frequency conversion motor, it is not suitable for voltages in different regions of the world

Touchless Tire Changer

Touchless Clamping

No metal-to-metal contact

Optional

OPTIONAL UNIVERSAL FLANGE

The universal flange can be supplied by the manufacturer if requested for clamping the wheel without the central hole but with 4-5-6 lug holes, or for clamping the wheel with back-to-front

X618 / X306

Make sure your tires are perfectly protected

There are no teeth to damage the rim, which avoids rim damage perfectly
Grip from the strongest part of the rim to make sure the operation is safe

- ✔ Powerful center air lock with high standard and high strength accessories, more durable and stronger
- ✔ The Italian center clamp design avoids rim damage
- ✔ Fast, safe, and precise

Italian-designed leverless tool,protect your clients' rims

Italian-designed leverless tool

- ✔ Pneumatically controlled lifting
- ✔ Easily remove different tires, cladding and raising spoke wheels
- ✔ Eliminate technician stress over difficult components
- ✔ Prevent the manual lever from damaging the bead and rim
- ✔ Easy-to-operate variable speed control

The pneumatic swing arm quickly resets, saving time and space

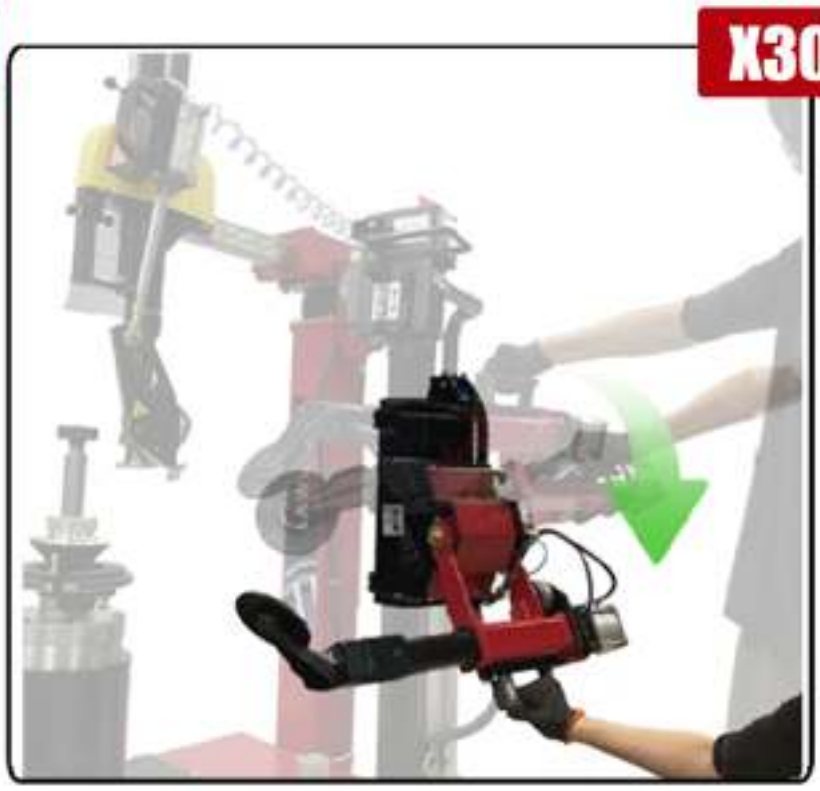
A. Saves space over tilt back designs
B. Suitable for installation by the wall
C. Mounting head reset quickly and saving both time and labor for mounting or dismounting the same size tires

Powerful toolhead

The pneumatic lifting system of the disassembly and assembly head makes the tire removal operation more convenient,saves both time and labor

Eliminate technician operating experience

Hands free, make machines to replace manpower and operating experience



New disc breaker makes tire removal more accurate and faster

- ***Unique Disc Bead Breaker***
  The unique disc bead breaker makes it faster and more ergonomic and reduces the risk of damaging the tire and rim
- ***Easy Bead Loosening***
  The lower roller demounts the bottom bead, making heavy tires manageable. Dual rollers are essential for match mounting and bead massage
- ***Durable material, not easily damaged***
  It is made of nylon material, which is more durable. Reduce the after-sales rate of accessories

The disc-bead breaker can be stepped forward, one click to achieve precise tire-rim separation

The pneumatic swing arm quickly resets, saving time and space

Complete the separation of tire in the most efficient way, which is proper, powerful and precise.To achieve optimal matching of tires and rims

X618

X306

The three positions pressing arm (X618 / X306 GT)

Greatly improves work efficiency

The position of the pressing tire can be mobilized. Space-saving and easy to operate, which can adapt to different sizes of tires freely. Assists in mounting the toughest tires and demounting runflat tires

Powerful assistance, simple control, coping with hard tires

- Powerful assistance
- Simple joystick control
- Handles the toughest tires
- Arm rotates with wheel
- Allows pusher to be used as a bead lifter

Reduce the risk of injury and save labor

Wheel lift is fast and ergonomic, reducing operator effort in case of large and heavy wheels and avoiding the laborious process of manually lifting tires

X618

X306 GT

Additional features will make you more competitive

Night vision system blessing no fear of dim light

On cloudy days, evenings and other low-light conditions, the night vision system can clearly see under the tire, helping to correctly position the disc bead and achieve barrier-free operation

Fast and time saving,handling different types of tire

Designed with run-flat tire in mind, the new top-side blast inflation system is optimized to seat even the most difficult tires

17L(10 bar) air tank has enough gas to fill the run-flat tire and low-profile tire
Traditional jaw blast inflation is still standard and effective for most tires

Variable speed motor design, safe & efficient

Adopt a frequency conversion motor that is suitable for voltages in different regions of the world

***POWER SUPPLY:100~240V(50/60HZ) 1PH**

TOUCHLESS TIRE CHANGER

✓ X618

Automatic center clamp design
Leverless tool
Pneumatic swing-arm system
Variable speed motor
Dual disc-bead breaker
Wheel lift
Three position pressing arm
Pneumatic bead press arm
Powerful blast inflation
Adopt broadband voltage technology,support
100v-240v,1ph,50hz-60hz

Italian design

✓ X306 GT

Automatic center clamp design
Leverless tool
Pneumatic swing-arm system
Variable speed motor
Single disc-bead breaker
Wheel lift
Three position pressing arm
Pneumatic bead press arm
Powerful blast inflation(optional)
Adopt broadband voltage technology,support
100v-240v,1ph,50hz-60hz

Italian design

✓ X306

Automatic center clamp design
Leverless tool
Pneumatic swing-arm system
Variable speed motor
Single disc-bead breaker
Pneumatic bead press arm(optional)
Powerful blast inflation(optional)

LAWRENCE

Non-damage Auto Service

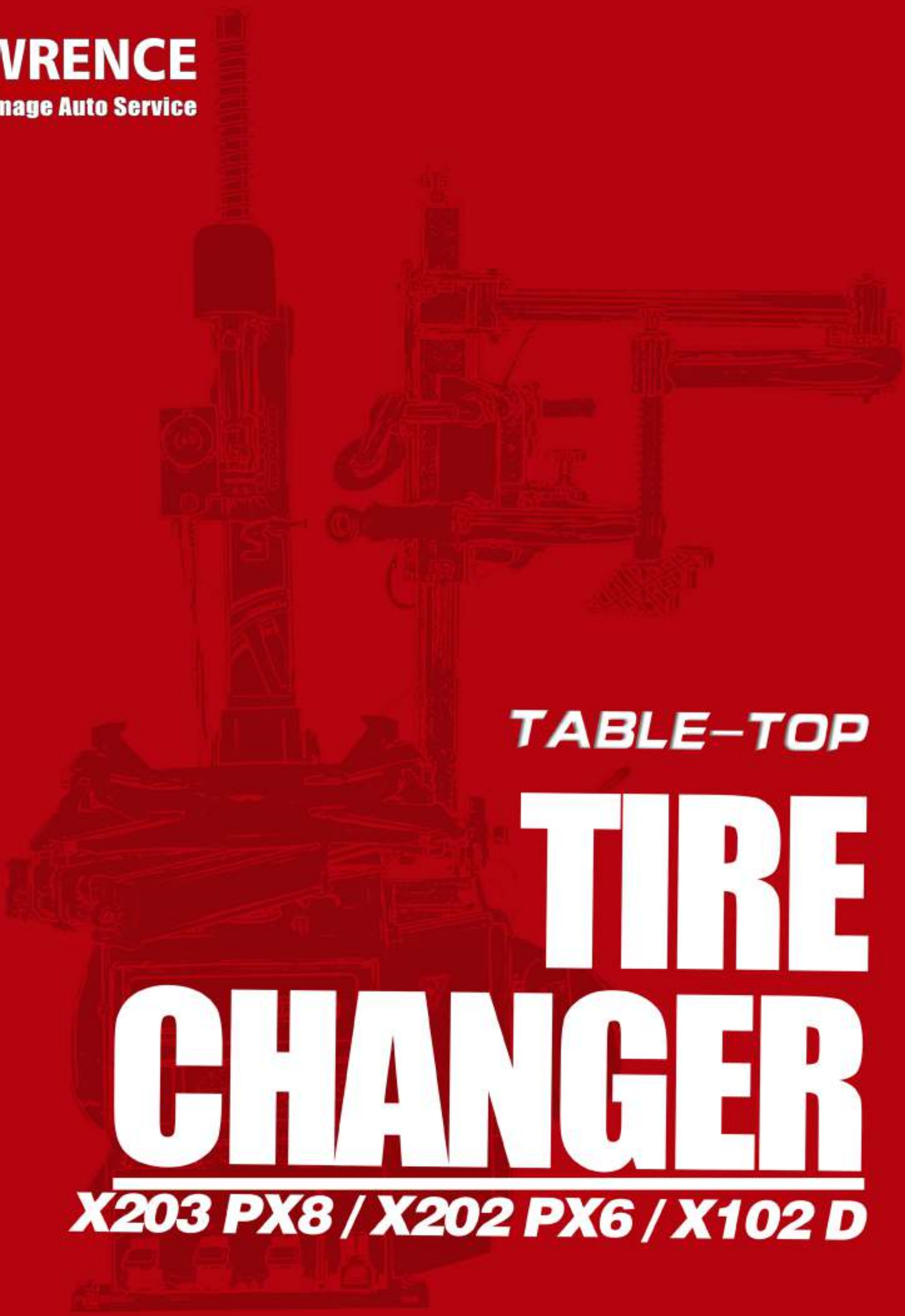


TABLE-TOP

TIRE CHANGER

X203 PX8 / X202 PX6 / X102 D

YOU SHOULD KNOW THAT !

You may encounter these troubles when using the traditional tire changer

Hard to remove over 20" tires

Most ordinary tire changers can only remove 10"-20" tires, which is hard to handle for high-end cars and modified cars

Insufficient mechanical strength

Hexagonal steel is not strong enough and will cause the mounting head to scratch the rim edge

Operational safety

The auxiliary arm of the tire changer is not strong enough, which will easily lead to operator injuries

Inferior parts break easily

Forward-reverse switch, motor, airpipe, etc. The after-sales cost is higher

X203-PX8 Italian design tire changer

Save time and effort and improve work efficiency by 60%

The three positions pressing arm greatly improves work efficiency

Assists in mounting the toughest tires and demounting run flat tires. The auxiliary mechanical arm on the left side of the machine body has ***the tire pressing and supporting function***

Bead press

The position of the pressing tire can be mobilized ✔
Space-saving and easy to operate ✔
Adapt to different sizes of tires freely ✔

Pneumatic tilt arm structure

Tilt forth and back by pneumatic control and lock, providing more upper space.Convenient to mount and dismount tires

Push-pull arm slide bearing

The square steel with special surface treatment is super smooth
There is no friction or noise, and no maintenance is required
Strengthen the hardening process to ensure that the tire will not deform when changing the tire

Adjustable toolhead

Use Italian air valve and high-standard springs to support high-intensity use for more than 10 years

Powerful and durable table-top tire changers for high intensity tire work

Bead press system

The powerful bead-breaker has three-way adjustable shovel to fit rims. Shovel protectors are standard

Special clamp
Made of special material and equipped with protective cover,which is strong and durable

Turntable with gauge

Equipped with a large turntable, clamps adjust from 10" to 24". The European standard gasket can protect the operator during mounting and dismounting

Foot control pedal

With micro-control function,provides precise clamping and avoids damage to the rims

Mounting head

Made of high-strength alloy steel, which is wear-resistant and corrosion resistance. Easy to operate the position function, good helper in mounting and dismounting

Oil filter

1.0Mpa high-quality water and oil fiter, which got resistance to high pressure

Two-speed motor (3ph available)

2-speed motor(Optional), which is high precision, high torque and fast speed for optimal mounting and dismounting

The thickened small cylinder synchronization bracket

The thickened cylinder synchronization bracket is durable and not easy to deform
The claws work smoothly, are durable, and are corrosion-resistant. With an aluminum alloy cylinder, the claws expand and contract powerfully. It is made of aluminum alloy to ensure no air leakage

TOUCHLESS TIRE CHANGER

Italian design

✓ X203 PX8

Pneumatic tilt arm structure

Bead press system

Mounting head

Three positionss pressing arm

Large turntable with gauge

Two-speed motor (3ph avaliable)

✓ X202 PX6

Pneumatic tilt arm structure

Bead press system

Mounting head

Heavy-duty helper

Large turntable with gauge

Two-speed motor(optional)

✓ X102 D

Manual swing arm

Bead press system

Mounting head

Heavy-duty helper

Turntable with gauge

Two-speed motor(optional)

TOUCHLESS

PRODUCT PARAMETER

Measurement Item	X618	X306	X306-GT
Rim Clamping	12"-32"	10"-24"	10"-24"
Max. Wheel Diameter	1200mm(47")	1000mm(39")	1000mm(39")
Max. Wheel Width	406mm(16")	330mm(13")	330mm(13")
Max. Bead-breaker Force	12250N	12250N	12250N
Operating Pressure	8-10bar(116-145psi)	8-10bar(116-145psi)	8-10bar(116-145psi)
Power Supply	110-240V(50~60Hz/1Ph)	110-240V(50~60Hz/1Ph)	110-240V(50~60Hz/1Ph)
Motor Power	1.1KW	1.1KW	1.1KW
Max. Inflating Pressure	3.5bar(50psi)	3.5bar(50psi)	3.5bar(50psi)
Net Weight	500kg	296kg	336kg
Packing Dimension	1340X1410X2040mm	1100X950X1810mm	1100X950X1810mm

TABLE-TOP

PRODUCT PARAMETER

Measurement Item	X203-PX8	X202-PX6	X102D
Rim Clamping	10"-22"	11"-21"	11"-21"
Inner Clamping	12"-24"	12"-24"	12"-24"
Max. Wheel Diameter	1000mm(39")	1100mm(43")	950mm(37")
Max. Wheel Width	340mm(13")	340mm(13")	320mm(12")
Max. Bead-breaker Force	29400N(10bar)	24500N	24500N
Operating Pressure	8-10bar(116-145psi)	8-10bar(116-145psi)	8-10bar(116-145psi)
Power Supply	110V/240V/380V/400V	110V/240V/380V/400V	110-240V(50~60Hz/1Ph)
Motor Power	0.85~1.1KW	0.75~1.1KW	0.75~1.1KW
Max. Inflating Pressure	3.5bar(50psi)	3.5bar(50psi)	3.5bar(50psi)
Net Weight	254kg+102kg	270kg	195kg
Packing Dimension	970*760*940 / 1500*450*455mm	1100*930*930 / 1230*420*240mm	990*800*880mm

LAWRENCE

Non-damage Auto Service

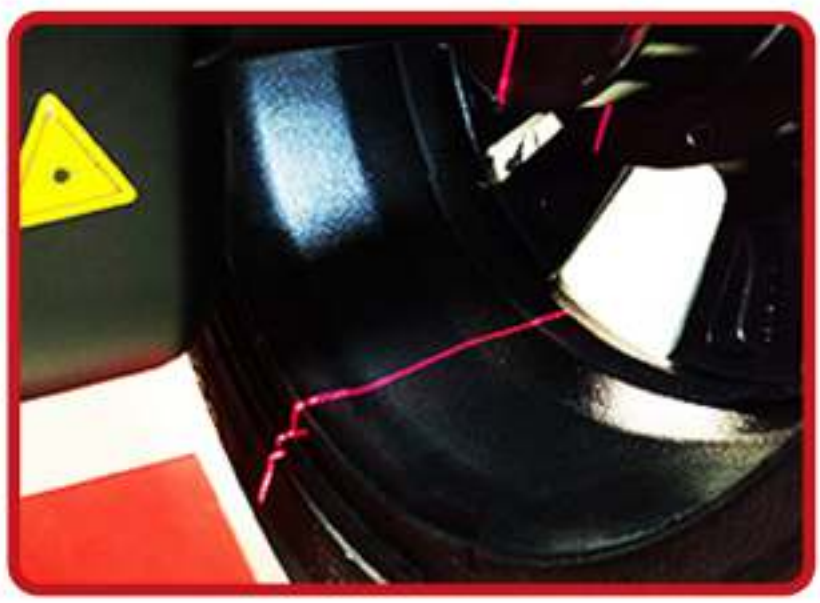
WHEEL BALANCER

B708 / B608 / B505

AUTO BRAKE WHEEL BALANCER #1

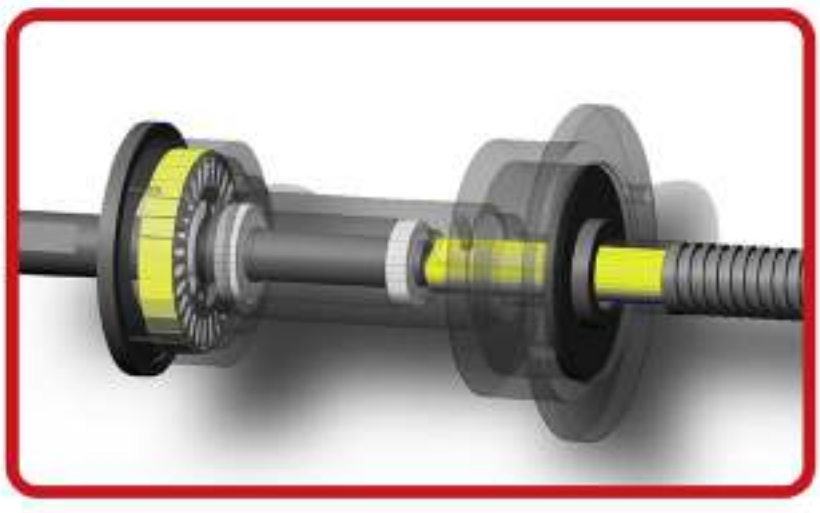
40mm threaded shaft

The standard 40mm threaded shaft is universal for balancer worldwide. The junction surface to main shaft and locking thread adopt the fine grinding after ultrasonic quenching treatment, which is durable and artistic



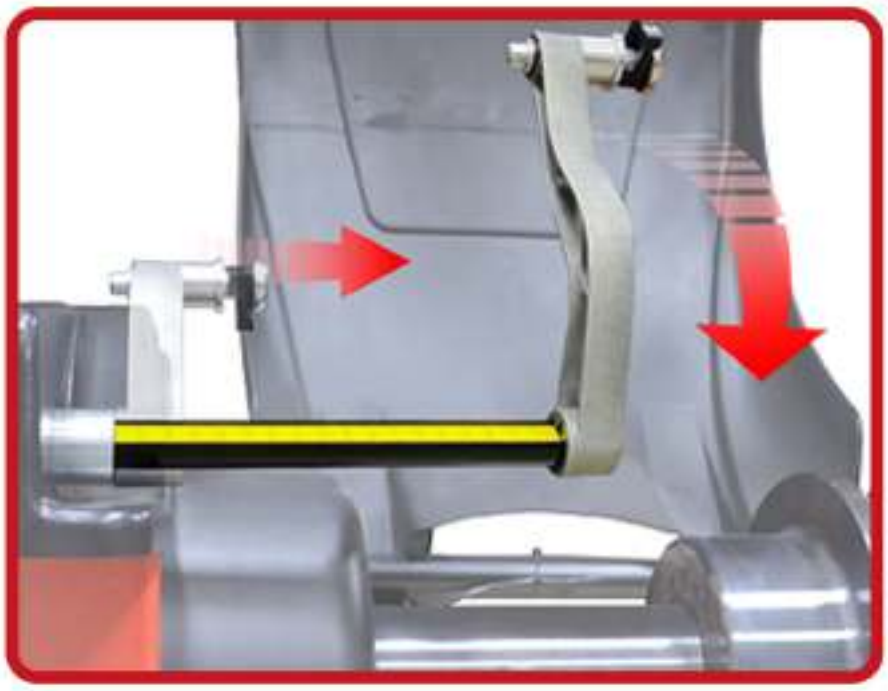
Laser line indicator function

The laser line locates the unbalanced position of the wheel quickly and precisely, improving your working efficiency



High precision of sensor

Adopt electromagnetic calculation of sensor , ensure high precision of the test data



Aluminum automatic measuring instrument

Compared with the plastic measuring instrument, the aluminum automatic measuring instrument is not easy to deform and the measurement is more accurate

Auto brake function

More convenient and efficient for balance detection

OPT function

Detect the imbalance position of wheel rim and tire respectively to match the optimal tire mounting position

AUTO BRAKE WHEEL BALANCER # 2

BALANCING WEIGHT HIDINGFUNCTION FUNCTION

Segmenting and hiding the balancing weight to the inner side of the tire

19" HIGH DEFINITION LCD MONITOR

Equipped with 19" monitor with clear display,with universal adjustment support frame,operator could operate the machine from any angle

Multi-function software

Intelligent instruction for operation
It is easy and user-friendly

Motherboard

With high-quality components, the chip algorithm is stable to ensure accuracy of balancing and a longer working life

Self-Detection fault function

It can help customers to diagnose problems accurately when the machine fails

Self-calibration function

Easy to operate, as well as quickly restore the accuracy of machines which haven't used for a long time that lost their precision

STORAGE COMPARTMENT

The storage compartment is widened and deepened to facilitate the placement of various specifications of balance blocks and commonly used tools, and the key operation angle has been optimized to be more reasonable

AUTO BRAKE WHEEL BALANCER # 3

HANGING ROD

There is a rack hanging rod on the left side of the balancing machine, which is convenient for placing different types of cones

LASER WIDTH MEASUREMENT

Adopt sonar measurement technology that can input tire data automatically, including dynamic balance mode, 6ALU modes, OPT function, and motorcycle balance mode

WHEEL GUARD

The sturdy wheel guard is made of high-density nylon that won't become brittle or hard even in winter

PROBLEMS CAUSED BY TIRE IMBALANCE

Lower productivity and higher labor intensity

Steering wheel jitter

The faster the speed, the worse the steering wheel jitters

Vehicle vibration

Tire deformation and excessive braking

Tires are eccentrically worn

The wheels are out of balance and the tires are severely worn

Damaged shock absorber

Affects car ride comfort

INTELLIGENT WHEEL BALANCER

✓ B708

Laser line indicator function

Sonar measurement technology

Auto brake function

Balancing weight hiding function

Aluminum automatic measuring instrument

40mm threaded shaft

OPT function

Self-detection fault function

Self calibration function

✓ B608

Auto brake function

Balancing weight hiding function

Aluminum automatic measuring instrument

40mm threaded shaft

OPT function

Self-detection fault function

Self calibration function

✓ B505

Foot brake function

Aluminum measuring instrument

36mm threaded shaft

OPT function

Self-detection fault function

Self calibration function

INTELLIGENT AUTO BRAKE WHEEL BALANCER

SEMI AUTO WHEEL BALANCER

PRODUCT PARAMETER

Measurement Item	B708	B608	B505
Max. wheel diameter	1180mm	1180mm	22"(558mm)
Wheel width	1.5"-20"(38-508mm)	1.5"-20"(38-508mm)	1.5"-20"(38-508mm)
Rim diameter	10"-24"(254-660mm)	10"-24"(254-660mm)	10"-22"(254-609mm)
Rotating speed	200rpm	200rpm	200rpm
Balance period	8s	8s	8s
Balance precision	±1g(±0.04oz)	±1g(±0.04oz)	±1g(±0.04oz)
Max. wheel weight	70kg (154 lb)	70kg(154 lb)	65kg(143lb)
Warranty period	one year	one year	one year
Power supply	1ph,100-120v(optional),200v-240v(50hz/60hz)		
Motor power	0.2kw	0.2kw	0.2kw
Net weight	90kg	90kg	93kg
Gross weight	120kg	120kg	103kg

COMPANY PROFILE

Today, Lawrence has reached the pinnacle of innovative development in many fields. As a pioneer in the industry, it has won many firsts in the world, such as: the world's first full 3D dynamic wheel alignment software (2005), the world's first intelligent lifting 3D wheel alignment (2008), the world's first Android handheld aligner (2010), the world's first remote gesture control function (2012), and the patented SMART-WIN function

In addition, it was the first to apply black tech targets to T-type wheel alignments and the first manufacturer in the industry to propose the concept of non-damage auto service. In 2014, it launched a touchless 3D wheel alignment (LS8), and in 2015, it launched a touchless tire changer (X618) and an intelligent wheel balancer (B708)

Through continuous innovation and technology accumulation, it has developed a series of leading high-end auto maintenance equipment with advanced technology. These achievements embody the wisdom and hard work of the team and demonstrate Lawrence's outstanding strength. At present, Lawrence is committed to promoting touchless technology and non-damage auto service concepts to global users, contributing wisdom and strength to the development of the global automotive industry

CERTIFICATES & HONORS

CREATE WORLD-CLASS PRODUCTS

OUR CUSTOMERS ARE ALL OVER THE WORLD

GLOBAL EXHIBITION CLIPS