



Tyre & Wheel Service Equipment

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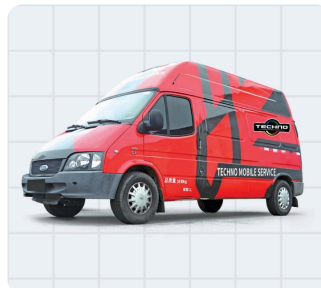
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01



Wheel Aligners

Camera-based 3D four-wheel alignment systems for passenger cars and light commercial vehicles.

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Ultra 3D 433

High-precision 3D wheel aligner

Accurate wherever you mount it • Rim-safe clamps • AI diagnosis



A new non-centre measuring algorithm lets the targets be mounted freely while still delivering precise toe, camber, kingpin and wheelbase readings. Four high-speed cameras and eight targets make it faster and more accurate than a conventional 3D aligner.

Highlights

- Four high-speed cameras with eight targets; multi-camera measurement gives a wider range and more dependable data
- Readings stable to within 1', ideal for performance tuning and premium workshops
- Single-point floating clamp mounts in about one second and protects complex, easily scratched rims
- Works with 2-claw, 3-claw and 4-claw clamps to suit each workshop's preference
- Four column mounting options and two cabinet styles to fit any bay

Technical specifications

Measurement	Accuracy	Range
Display accuracy	1' / 0.01° / 0.1 mm	
Camber	±2'	±10°
Caster	±6'	±20°
King-pin inclination	±6'	±20°
Toe	±2'	±20°
Setback	±2'	±5°
Thrust angle	±2'	±5°
Track width	±2 mm	1800 mm
Wheelbase	±2 mm	4200 mm

Hardware features

Designed for speed, accuracy and a premium look in the workshop.



Premium design

One-piece moulded beam and column with no visible joints. A streamlined look that stands out from conventional aluminium-beam aligners.



Wider measuring range

The new generation uses four cameras working together, covering a wider range than conventional systems with more reliable data.



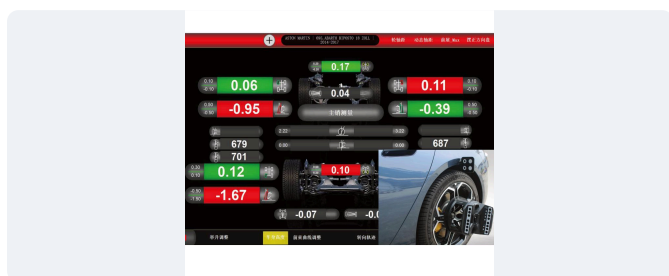
Lightweight clamps

Each clamp weighs just 2 kg, more than 50% lighter than conventional clamps.



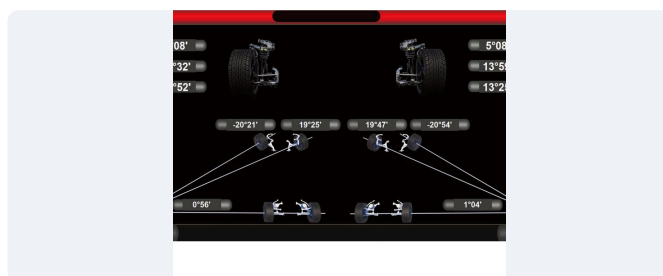
Stable in sunlight

Targets made from aerospace-grade material: drop-resistant, sunlight-proof and resistant to peeling.



Body height kit (optional)

Measures ride height and other key body data in real time, essential for premium European vehicles.



More angles

Measures more angles in one pass, including toe-out on turns, maximum steering angle and vehicle offset, with live animation for key angles.



One-second mounting

The single-hook floating clamp fixes to the wheel in about one second.

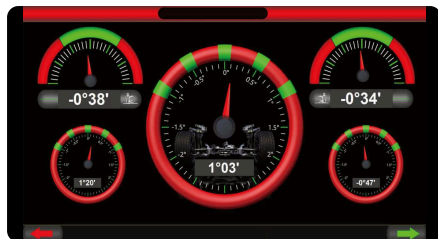


One-minute test

A full measurement takes about one minute, with the report shown immediately.

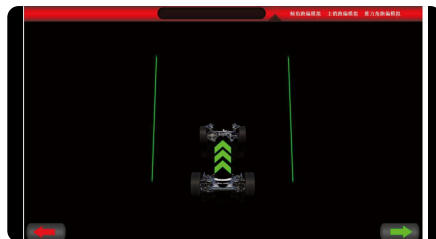
Software features

Clear, guided software that helps technicians find faults and make the right adjustment.



Camber with toe at zero

Professional function for adjusting camber and other key angles with toe set to zero.



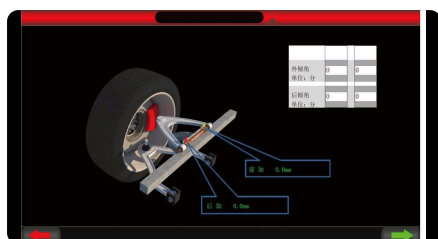
Vehicle pull simulation

Dynamic simulation of vehicle pull based on camber, kingpin and other key angles.



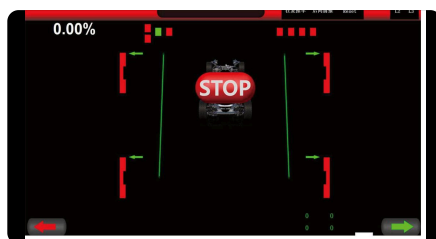
AI analysis report

Angle analysis report that guides technicians through chassis faults and suggests the right repair.



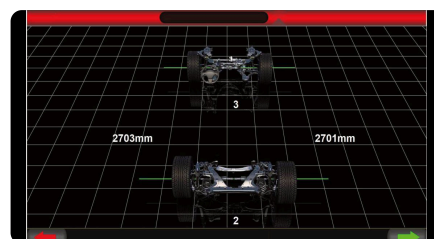
Shim repair data

Step-by-step guidance for vehicles that are adjusted with shims.



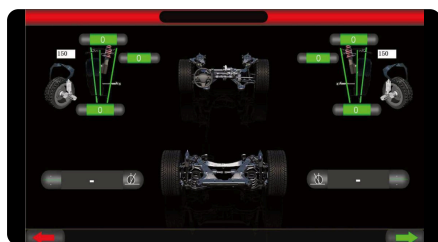
Two push modes

Classic back-and-forth rolling plus a new rear-to-front push mode for faster runs.



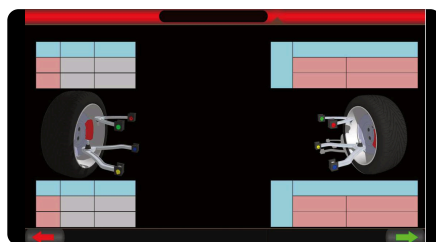
Dynamic wheelbase simulation

After measurement, wheelbase offset is shown as a dynamic simulation.



Steering track adjustment

Precise measurement and adjustment of steering track and subframe position.



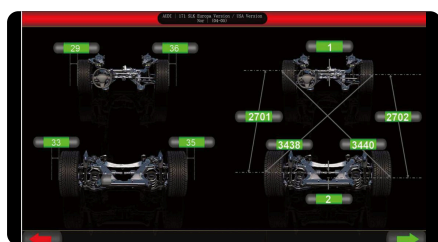
Double-cam repair data

Calculation and guidance for vehicles adjusted with double cams.



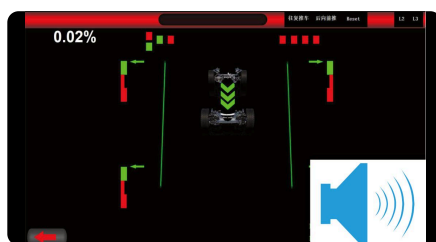
Kingpin adjustment

A clear, intuitive screen that delivers accurate kingpin readings quickly.



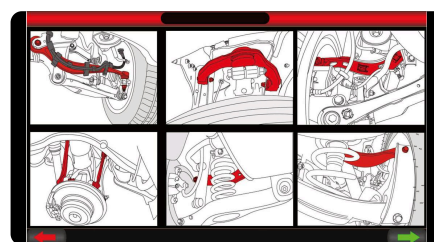
Chassis side offset (optional)

Displays lateral offset of the vehicle chassis.



Voice prompts

Real-time spoken guidance while rolling the vehicle.



Adjustment teaching guide

Illustrated, vehicle-specific guidance on how to make each adjustment.

Configuration

Standard equipment and software functions of the Ultra 3D 433.

Standard equipment

- ☐ Crossbeam assembly
- ☐ Premium aluminium-alloy column
- ☐ Column top trim kit
- ☐ Premium cabinet (dual screen)
- ☐ One-piece lightweight targets
- ☐ Quick clamps (×4)
- ☐ Branded computer
- ☐ 24" upper monitor
- ☐ 21" lower monitor
- ☐ Keyboard
- ☐ Optical mouse
- ☐ Connection cables
- ☐ Premium ink-tank printer
- ☐ Quick steering wheel holder
- ☐ Brake pedal depressor

Software functions

- ☐ Toe, camber and kingpin measurement and adjustment
- ☐ Toe-out on turns
- ☐ AI analysis and smart report
- ☐ Dynamic wheelbase analysis
- ☐ Common vehicle repair calculations
- ☐ Steering wheel analysis
- ☐ Vehicle pull dynamic analysis
- ☐ Subframe adjustment
- ☐ Voice assistance
- ☐ Adjustment part guidance
- ☐ Camber adjustment with toe at zero
- ☐ Adjustment guidance
- ☐ Dynamic measurement
- ☐ One-way push mode
- ☐ QR code

Available on request

- Max. steering angle function with extension kit
- Clamp extension kit
- Auto-lift kit
- Body height measurement
- Chassis side offset
- Wi-Fi tablet

Optional items may require a higher configuration. Contact us for details.

Installation and cabinet options

Four column mounting options and a choice of two cabinet styles are available to suit the layout of your workshop.



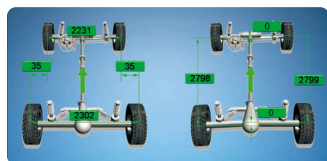


Chassis Pro

Auto-tracking 3D aligner that measures the full chassis, guides chassis servicing and talks the technician through each step.

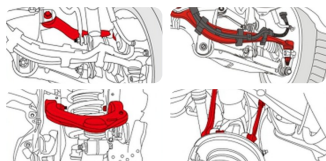
Highlights

- Auto-tracking beam follows the lift height, so alignment and repair can be done at a comfortable working height on any lift plane
- Full chassis measurement with voice-guided operation and a built-in chassis maintenance guide
- High-definition, high-precision 3D cameras; targets resist corrosion and are unaffected by temperature changes
- Measures wheelbases up to 4.2 m for long-wheelbase vehicles
- Cloud backend for remote software and database updates and remote viewing of vehicle data
- Optional upgrades add turning radius and tyre radius measurement



Chassis measurement

Calculates track width, wheelbase and their left-right differences for a clear picture of chassis condition.



Maintenance guide

Step-by-step chassis inspection backed by an extensive chassis parts database.



4.2 m wheelbase

Extended measuring range covers long-wheelbase cars and special-purpose vehicles.



Cloud service

Remote updates and remote access to measurement records.

Technical specifications

Measurement	Accuracy	Range
Display accuracy	1' / 0.01° / 0.1 mm	
Camber	±2'	±10°
Caster	±6'	±20°
King-pin inclination	±6'	±20°
Toe	±2'	±20°
Setback	±2'	±5°
Thrust angle	±2'	±5°
Track width	±2 mm	1800 mm
Wheelbase	±2 mm	4200 mm

Standard configuration

- 2 × 3D measuring cameras
- Gold aluminium-alloy beam and column
- Auto-tracking lift kit
- Luxury cabinet
- Dual-core branded PC
- 22" LCD monitor
- Printer
- Black box
- 4-claw precision wheel clamps
- Steering wheel holder
- Brake pedal depressor
- Turntables
- UPS power backup
- Operation manual

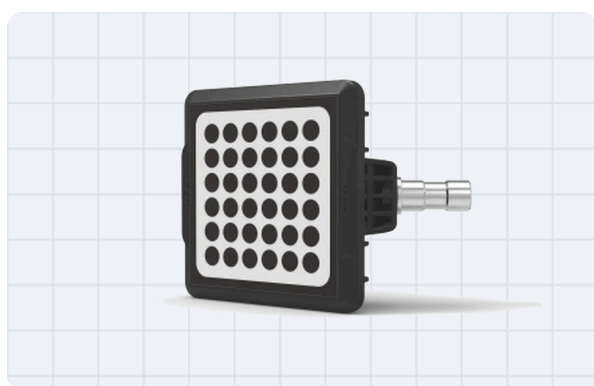
Functions

- Dynamic measurement
- Auto compensation
- Lift compensation
- Cloud service
- Voice prompts
- Chassis maintenance guide
- 3D vehicle display
- Toe / camber / caster / KPI
- Thrust angle / setback
- Track width and difference
- Wheelbase and difference
- Suspension adjustment
- Customer data sharing
- Turning radius
- Max. steering angle
- Tyre diameter
- Caster trail
- Lift monitoring

Dashed outline: optional.

Compact Two-Camera

A two-camera 3D aligner built around ultra-small, high-precision targets. Light to handle, simple to use and accurate on every measurement.



Ultra-small high-definition targets

Among the smallest targets in the industry. Their compact size makes them lighter on the wheel clamps and easier for the technician to fit and remove.

- Corrosion-resistant target surface
- Core components imported
- High measuring accuracy with simple, intuitive operation

System overview

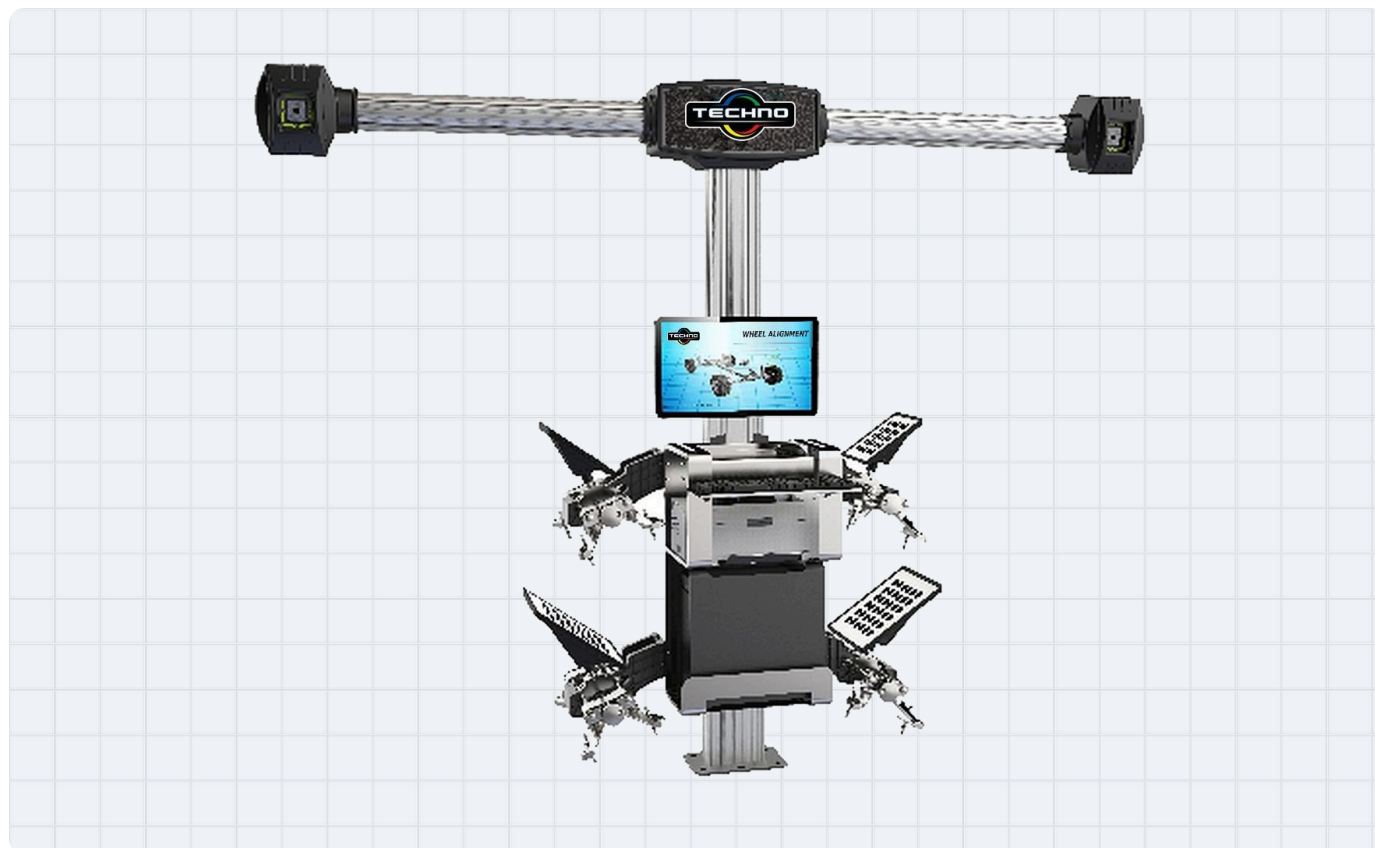
- Two-camera measuring beam on a single column
- Mobile cabinet with monitor, keyboard and storage
- Four wheel clamps with high-definition targets

Built to your workshop

Beam finish, cabinet and configuration can be tailored to your requirements. Contact us for the full technical specification.

T-Column Classic

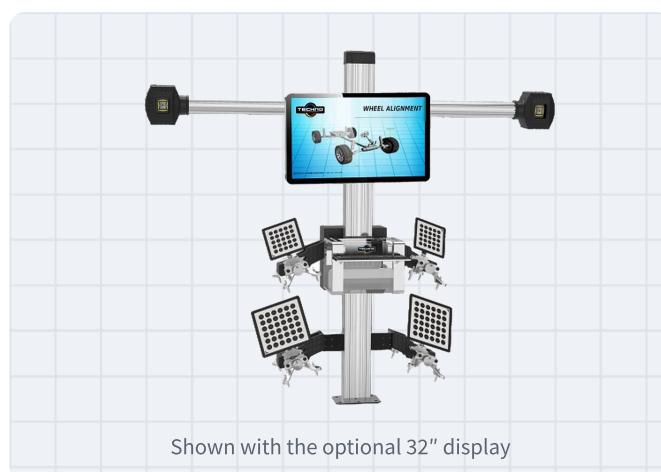
A classic dynamic-measurement 3D aligner on a slim T-column, designed to take up as little floor space as possible.



Space-saving design

The measuring beam, monitor and control unit are all carried on one column, keeping the bay clear around the vehicle.

- ☐ Dynamic 3D measurement
- ☐ Compact T-column footprint
- ☐ Can be ceiling-mounted for an even clearer floor
- ☐ Optional 32" large-screen display

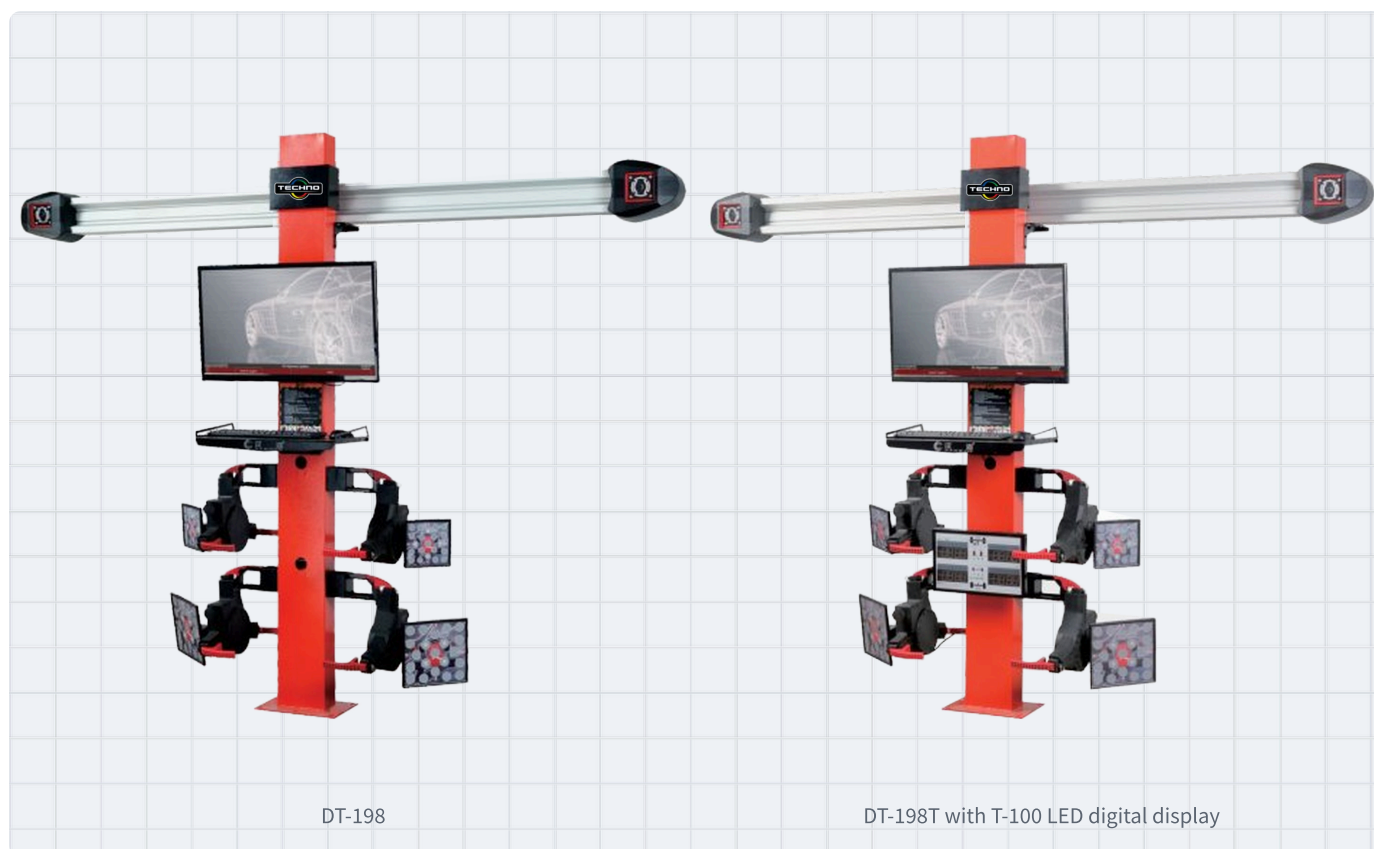


Built to your workshop

Mounting style, screen size and configuration can be tailored to your requirements. Contact us for the full technical specification.

DT-198 / DT-198T

A 3D camera aligner with the camera beam fixed to the column. The DT-198T adds a T-100 LED display for live readings.



Fixed camera cross beam

The camera cross beam is fixed on the column and does not travel up and down during measurement. The vehicle lift is set to the working height of the aligner instead.

- Modular industrial PC: stable system, easy maintenance and quick service
- Three-point clamps grip the tyre, not the rim
- 22" LCD monitor with keyboard and mouse
- T-100 LED digital display on the DT-198T

Standard configuration

Item	DT-198	DT-198T
Camera cross beam	1	1
Column	1	1
Cabinet (type F)	1	1
Modular industrial PC	1	1
22" LCD monitor	1	1
T-100 LED digital display	–	1
Keyboard / mouse	1 / 1	1 / 1
Three-point clamps	4	4
Targets (F-168 / B242)	4	4
Brake depressor / steering holder	1 / 1	1 / 1

Built to your workshop

Cabinet, screen and configuration can be tailored to your requirements. Contact us for the full technical specification.



02



Tyre Changers

Tilt-back and leverless tyre changers for cars, SUVs and run-flat tyres.

885N Tilt-back tyre changer

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897V Leverless centre-post tyre changer

14

889NV / 390H Leverless tyre changer

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885N

Tilt-back tyre changer

Larger working size and stronger bead breaking force for efficient everyday tyre changing.


1120 mm

Max. wheel diameter

12"-23"

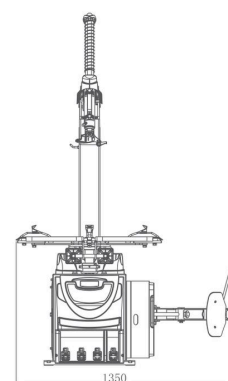
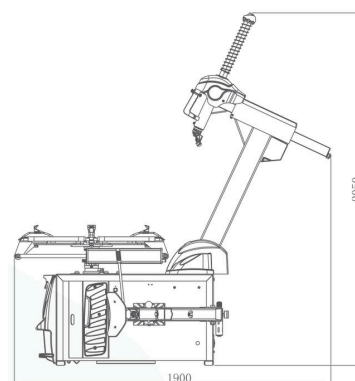
Inside clamping

10"-20"

Outside clamping

2500 kg

Bead breaking force



Product features

- Mounting head made of special material with a 41 mm hex bar, handles all kinds of run-flat and low-profile tyres.
- Italian-design pedal assembly with an ergonomic structure and stable sealing performance.
- Tilt-back column that tilts forwards and backwards, driven and locked by an air cylinder.
- Reinforcing channels welded to the front of the column base for greater overall strength.
- Optional AL390 or AL328 assist arm with a tyre pressing block for rim centring, making mounting and demounting faster and easier.
- Cylinders treated with a special phosphating process to prevent rust and extend service life.
- Optional SR69 tyre lifter to reduce operator effort.

Technical data

Outside clamping range	10"-20"
Inside clamping range	12"-23"
Rim width	3"-13"
Max. wheel diameter	1120 mm
Working pressure	8-10 bar
Bead breaking force	2500 kg
Power supply	110V / 220V / 380V
Motor power	0.75 kW / 1.1 kW
Rotation speed	6.5 / 13 rpm*
Noise	< 70 dB
Machine dimensions	1900 × 1350 × 2050 mm
Packing dimensions	1130 × 910 × 1010 mm
Net / gross weight	246 kg / 285 kg
40 ft container	52 sets

* Two-speed is optional and requires 3-phase power.

Optional accessories



AL320 assist arm



Motorcycle adapter



Tyre bracket



Tyre press assistant

Suitable for

Garden tractor

ATV

Scooter

Motorcycle

Standard

Large profile

Run-flat

SUV

Van

● Suitable ○ Optional ● Unsuitable

897V

Leverless centre-post tyre changer

The classic combination of the ZD05 leverless kit and centre-post clamping. High value, easy to handle and reliable.


1100 mm

Max. wheel diameter

12"-30"

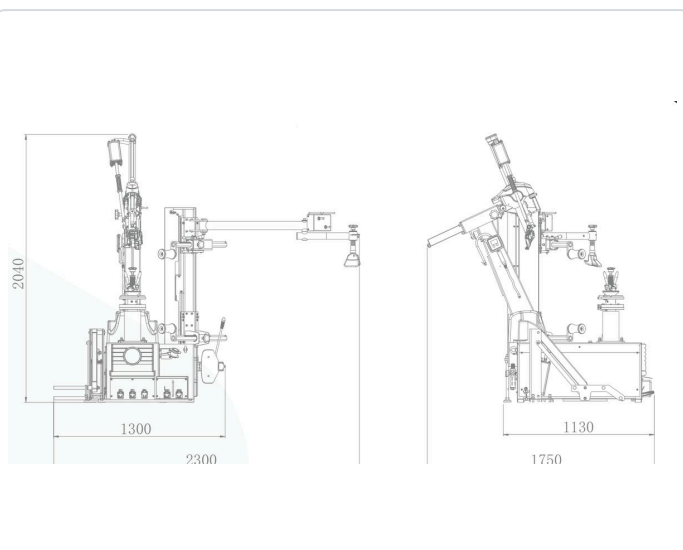
Rim range

3"-14"

Rim width

2800 kg

Bead breaking force



Product features

- ZD05 leverless kit based on patented Italian technology, proven in the European market over many years and able to handle a wide range of tyre types.
- Pneumatically controlled ZD05 leverless kit.
- Left-side tyre lifter fitted as standard.
- Professional right-side helper with independently operated upper and lower pressing rollers for higher productivity.
- Centre-post clamping suits many tyre types and keeps rims free from scratches.

Technical data

Rim range	12"-30"
Rim width	3"-14"
Max. wheel diameter	1100 mm
Working pressure	8-10 bar
Bead breaking force	2800 kg
Power supply	110V / 220V / 380V
Motor power	0.75 kW / 1.1 kW
Rotation speed	6.5 / 13 rpm*
Noise	< 70 dB
Machine dimensions	2300 × 1750 × 2050 mm

* Two-speed is optional and requires 3-phase power.

Optional accessories



Universal fixture



Cone



Centre-post height spacer



Bead pressing clamp

Suitable for

Garden tractor

ATV

Scooter

Motorcycle

Standard

Large profile

Run-flat

SUV

Van

● Suitable ○ Optional ● Unsuitable

889NV / 390H

Leverless tyre changer

A proven ZD05 leverless system that handles regular and difficult tyres alike, and makes run-flat tyres easy.


1100 mm

Max. wheel diameter

13"-26"

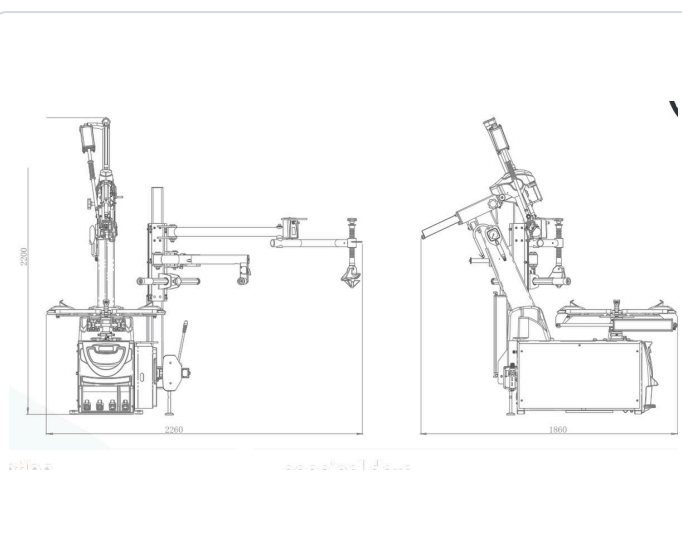
Inside clamping

11"-24"

Outside clamping

2800 kg

Bead breaking force



Product features

- Latest ZD05 leverless system with a smooth hand control valve. Patented Italian technology, proven in the European market, mounts and demounts a wide range of tyres with ease.
- 200 mm diameter air cylinder as standard with a variable-torque bead breaker arm, delivering the force to break any RSC or run-flat tyre.
- 55 mm diameter horizontal shaft with an extended hex bar sleeve for a robust mechanical structure.
- Vertical column made of 5 mm double-bent steel plate, resistant to deformation.
- Lengthened hex bar with extra torque prevents deformation and gives additional rim protection.
- Optional AL390H right helper with three-position tyre pressing for higher productivity.
- Optional SR69 tyre lifter.

Technical data

Outside clamping range	11"-24"
Inside clamping range	13"-26"
Rim width	3"-14"
Max. wheel diameter	1100 mm
Working pressure	8-10 bar
Bead breaking force	2800 kg
Power supply	110V / 220V / 380V
Motor power	0.75 kW / 1.1 kW
Rotation speed	6.5 / 13 rpm*
Noise	< 70 dB
Machine dimensions	1860 × 2260 × 2200 mm
Packing dimensions	1350 × 1050 × 2000 mm
Net / gross weight	405 kg / 495 kg
40 ft container	16 sets

* Two-speed is optional and requires 3-phase power.

Optional accessories



SR69 lifting device



SR66 lifting device



Tyre bracket



Bead pressing clamp

Suitable for

Garden tractor

ATV

Scooter

Motorcycle

Standard

Large profile

Run-flat

SUV

Van

● Suitable ○ Optional ● Unsuitable



03



Wheel Balancers

Accurate, easy-to-use balancers from classic to sonar-measuring models.

CB78P / CB78S

Non-contact sonar wheel balancer

Inverter-driven balancer with three non-contact sonar sensors and automatic tyre width measurement. Accurate positioning, very quiet operation.


1118 mm

Max. wheel diameter

70 kg

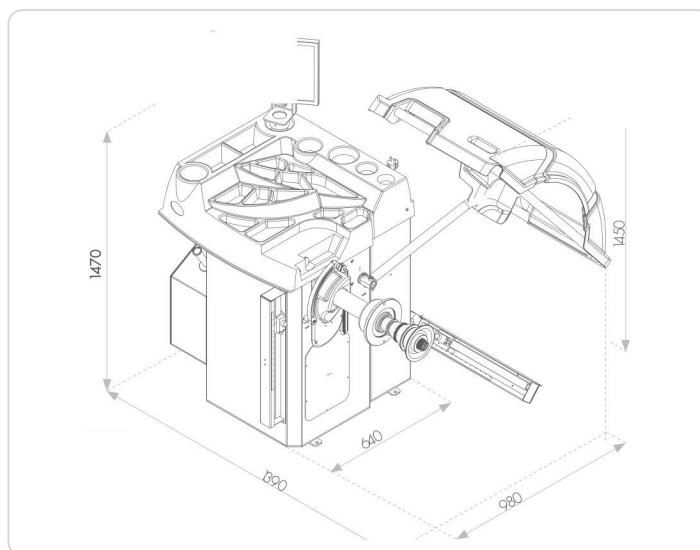
Max. wheel weight

±1 g

Precision

7 s

Balancing time



Product features

- Italian software with simple operation.
- Automatic input of tyre data, including custom alloy wheel programs, unbalance optimisation (optional) and weight placement.
- Spindle joint surface and locking thread hardened by ultrasonic quenching.
- Dedicated motorcycle mode, compatible with a range of fixtures.
- Transverse and longitudinal sonar sensors trace the tread and sidewall profile for accurate tyre width measurement.
- 19-inch touch screen on a fully adjustable arm, usable from any angle.
- Inverter-driven motor for low noise, with LED lighting for accurate positioning.
- Energy-saving mode; smart switching between dynamic STD and alloy ALS2 modes.
- 6 o'clock laser pointer.

Technical data

Rim diameter	1"–28"
Max. wheel weight	70 kg
Max. wheel diameter	1118 mm
Rim width	1.5"–20"
Precision	±1 g
Motor power	0.37 kW
Power supply	100 / 230V 1-phase
Rotation speed	140 rpm
Balancing time	7 s
Second test	≤ 5 g
Machine dimensions	1390 × 980 × 1470 mm
Packing dimensions	1400 × 880 × 1170 mm
Net / gross weight	154 kg / 192 kg
40 ft container	52 sets

Optional accessories



BJ-09 lifter



Prado cone



Motorcycle adapter



Universal clamp

Functions

Car + SUV

Motorcycle mode

Manual input

Auto input dist.+dia.

Auto width measure

Foot brake

Auto brake

LED light

Laser

Split weights

● Suitable ○ Optional ● Unsuitable

CB910GB

Classic wheel balancer

A dependable, classic balancer with stable, repeatable readings and quick, simple calibration.


1000 mm

Max. wheel diameter

65 kg

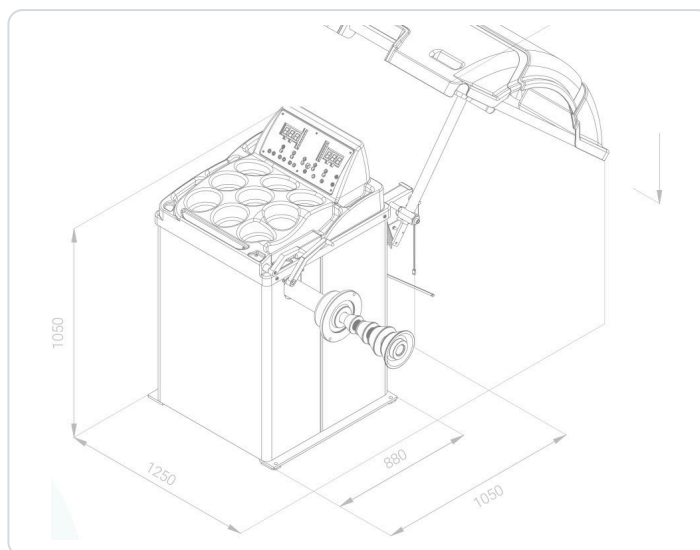
Max. wheel weight

±1 g

Precision

10 s

Balancing time



Product features

- Dynamic and static balancing, multiple alloy modes and a motorcycle mode.
- Operating sequences can be customised to the user's needs.
- Quick and easy calibration.
- Motorcycle mode with an optional motorcycle clamp.
- Injection-moulded hood: attractive and durable.
- IMD surface finish resists scratches and corrosion for a long service life.
- Heavy-duty keypad rated for over 500,000 presses.

Technical data

Rim diameter	10"-24"
Max. wheel weight	65 kg
Max. wheel diameter	1000 mm
Rim width	1.5"-20"
Precision	±1 g
Motor power	0.25 kW
Power supply	100 / 230V 1-phase
Rotation speed	200 rpm
Balancing time	10 s
Second test	≤ 5 g
Machine dimensions	1250 × 1050 × 1050 mm
Packing dimensions	930 × 710 × 1160 mm
Net / gross weight	107 kg / 137 kg
40 ft container	68 sets

Optional accessories



BJ-09 lifter



Prado cone



Motorcycle adapter



Universal clamp

Functions

Car + SUV

Motorcycle mode

Manual input

Auto input dist. + dia.

Auto width measure

Foot brake

Auto brake

LED light

Laser

Split weights

● Suitable ○ Optional ● Unsuitable



04



Mobile Service

A complete tyre service workshop on wheels.

MC30

Mobile tyre service van

A new model that combines a fixed workshop with mobile service: take tyre changing, balancing and quick maintenance to your customers and reach them through a new channel.



Complete service solution

- Covers routine maintenance, roadside assistance and professional tyre changing.
- Combines tyre changing, balancing, tyre repair, tyre spreading and quick maintenance.
- 48V DC power system, ready for door-to-door service.
- OPTIMA batteries imported from the USA, operating from -40 °C to +50 °C.
- Configuration can be customised to each customer's needs.

Tyre changing system

- Purpose-designed tyre changer with plenty of working room for the technician at the rear door.
- Battery-powered DC operation: energy-efficient and close to zero emissions.
- No tyre lever needed and suits all kinds of tyres; the assist arm handles run-flat, low-profile and RSC tyres.
- Threaded-shaft drive with zero backlash: no damage to tyres or rims.

Balancing system

- Hand-spin wheel balancer, energy-saving; tilt-in/tilt-out design saves interior space.
- Low-speed design that works normally at just 100 rpm.
- Italian software for stable, highly accurate balancing.
- Automatic gauge with two-value measurement for faster work.

Tyre changer data: MH22D

Rim diameter	12"-23"
Wheel width	3"-12"
Max. wheel diameter	850 mm
Working pressure	6-8 bar
Main shaft motor power	0.8 kW
Up/down motor power	0.25 kW
Main shaft speed	8 rpm
Power supply	DC 48V
Weight	260 kg

Wheel balancer data: MB14

Rim diameter	1"-28"
Rim width	1.5"-20"
Max. wheel diameter	1100 mm
Max. wheel weight	70 kg
Second test	≤ 5 g
Main shaft speed	100 rpm
Power supply	DC 48V
Weight	60 kg



Professional tyre and wheel service equipment