



Ravaglioli

WHEEL ALIGNMENT SYSTEMS

RAV
TD

3000
HP

8
LINER

8060
TWSR

VISTAR
3DT[®] Target Alignment



Bluetooth[®]
WIRELESS SYSTEMS



**TRUCK
ALIGNERS**



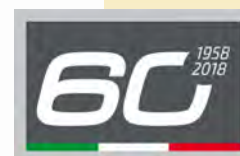
TIRE TREAD DEPTH
MEASURING SYSTEM

PROFILER

WS
101
103

CALIBRATION
SYSTEMS

RAV
ADAS



24 volt motor with low speed rotation = min. power consumption





TOWER-FREE 3D Alignment System



Monitor 22"

TD3000HP.B

EASY ALIGNMENT



3D ANIMATION



3D INFO



EASY DATA



EASY VEHICLE SELECTION



Quick entering of vehicle by model or VIN number. (VIN reader option)



Bluetooth®
Bluetooth transmission
between measuring
heads and control unit.

ALIGNMENT
READING IN 8"

NO ROLLING COMP. NEEDED

TOWER-FREE

!!



MEGAPIXEL HIGH RESOLUTION CAMERAS

TOP PRECISION
TARGET READING



COMPACT AND
SAFE

The base of the sensor can be
translated outward by 2.5"
(65mm) in case of extra large



Keyboard with remote-
control function.

9 lbs

3DT® TARGET (Solid Vision Technology)

EXTREMELY FAST:
NO COMPENSATION
REQUIRED

Exclusive 3D targets:
- no need for run out compensation
- extremely light
- **no electronic components inside**
- no maintenance required

2,5 lbs



PATENT PENDING



3 POINT + FAST CLAMPS



FASTEST SETUP

Pair of self-centering 3 point clamps, with tire grabber arms and ABS claws. Equipped with quick claws approach device.

LED REPEATER



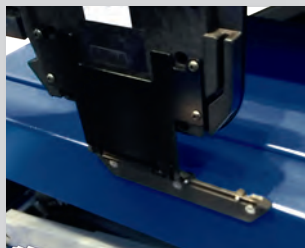
EASY UNDER VEHICLE READING

LED FRONT/REAR



Guided adjustments, no need to see the monitor.

MOBILE AND SAFE



Quick clamp to the lift. Pivoting support to avoid damage due to obstacles while lowering.

LIFT LEVEL COMPENSATION



Can be used on any 4 post or scissor lift. Automatic lift level compensation.

QUICK BATTERY CHANGE



BATTERY CHARGING STATION



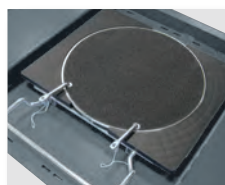
STANDARD



STDA35E 8"-24" (203-610mm)

Pair of self-centering 3 point clamps, with tire grabber arms and ABS claws. Equipped with quick claws approach device.

- 1 control unit with PC, monitor, key-board, printer
- 2 measuring heads
- 4 clamps with target
- 1 pair of turn tables
- 1 brake pedal depressor
- 1 steering wheel lock
- Instruction manual on CD



STDA124 (2 x kit)



STDA117 (2 x kit)

OPTION

STDA3D/QC QUICK CONTROL



QC2R (Quick Control 2 Reverse) allows you to quickly diagnose front axle angles: total toe and camber. After measurement, the user will decide whether to carry on with alignment operation and vehicle adjustment.

STDA141 - REMOTE CONTROL on SmartPhone / Tablet

ALIGNER CONNECT





8-LINER



8CCD

Bluetooth communication between front measuring heads and control unit. Equipped with TFT color monitor.
Infra-red transmission between measuring heads.
Data Bluetooth transmission allows maximum mobility between different working positions, thanks to the absence of cables and any fix structure.

SAFE PRINT

The paper-exit opening permits using the printer with the drawer closed, thereby providing total protection against damage and dirt.

DRAWER

Drawer to store clamps and accessories.

WHEELED CONTROL UNIT

The wheeled control unit houses computer, printer and monitor, allowing total mobility.

Power supplied by long-life rechargeable batteries.

Infra-red data transmission particularly good even in difficult lighting conditions.

7 lbs

8Sensors



REMOTE CONTROL

Keyboard with remote-control function.

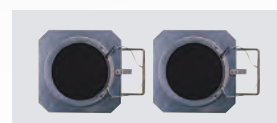
STANDARD

- 8-sensor technology with solid state electronic inclinometers wireless Bluetooth®
- Windows based computer/software 19" monitor
- Cable battery-recharging system
- Supports VIN scanning (scanner not included)
- Supports new ALIGNER CONNECT
- 4-point clamps and turntables included
- Brake pedal depressor and steering wheel lock

4 point



STDA33EU 10"-24"
Pair of self-centering 4 point clamps, with removable claws.
(Optional 3point fast clamps)



S110A7 - 12.2" (310mm)
(2x2200lbs) Turntables



OPTION

3 point + Fast clamps



STDA96 8"-24"
Pair of 3 point clamps, with tire grabber arms and ABS claws.



- REMOTE CONTROL
on SmartPhone / Tablet

**ALIGNER
CONNECT**



TIRE TREAD DEPTH Measuring System

PROFILER

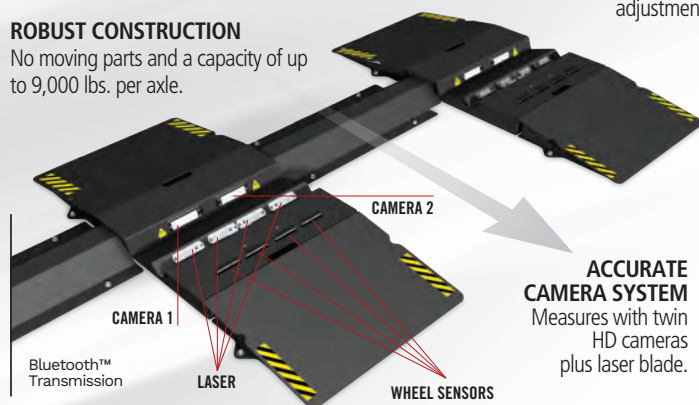
Made in Italy



RAV WS101 / 103 FULLY AUTOMATED TIRE TREAD and ALIGNMENT MEASURING SYSTEM EASY DRIVE-OVER TIRE AND WHEEL ANALYSIS

ROBUST CONSTRUCTION

No moving parts and a capacity of up to 9,000 lbs. per axle.



Within seconds, tires are evaluated for uneven tread wear and tread inconsistencies and are analyzed, captured and presented to your customer with zero technician labor involved. Easily track, record and present findings for potential wheel alignment work, suspension adjustments or a new set of tires.

ACCURATE CAMERA SYSTEM
Measures with twin HD cameras plus laser blade.

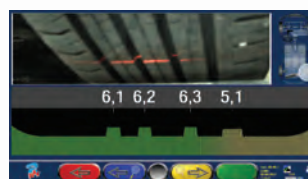


TEST RESULT



Graphic representation of tire wear. Indication of maximum and minimum tread depth. Vehicle diagnosis reveals uneven tire wear and the possible need for wheel alignment or suspension analysis.

ZOOM FUNCTION



Allows to select each tire for a more detailed analysis.

The customer verification report includes vehicle type, four (4) tread photos with report and analysis on all 4 wheels.

Technical data

Measuring accuracy / 0,01" (0.25 mm)
Maximum tire width / 23" 1/2 (600 mm)
Maximum speed / 5 mph
Max. axle load / 9.000 lbs

Power / 100 to 230 VAC,
50 - 60 Hz, 1-phase
Operating temp. range / 0-40°C
Protection level of measuring modules / IP65

SYSTEM OPTIONS



SURFACE INSTALLATION

RAV WS101 Stand alone system

PC on trolley with measuring equipment. System has access to customer data and measurement values. Windows based system.



TIRE MEASURING and ALIGNMENT CHECK



SURFACE INSTALLATION

RAV WS103 Profiler + Aligner Quick inspection system

Measuring upgrade kit for existing wheel alignment or test lane. Compatible with all RAV WS or 3D aligner systems.

SWS102A2 (RAV WS101 - WS102)

OPTIONAL traffic light and camera for automatic plate recognition.



AUTOMATIC TEST MEMORY

The Profiler can be set with automatic plate registration function: the system stores the diagnostic data automatically without the presence of a technician.

RAV ADAS Kit for ADAS Calibration Systems

The precondition for ADAS calibration is that the vehicle is perfectly aligned. Also the ADAS calibration panel needs to be perfectly aligned with the trust angle of the vehicle. Our 3D and CCD aligners can be used with ADAS diagnostic equipment from some of the major manufacturers, allowing quick and precise positioning of the panel. The system allows to save time compared to basic laser systems

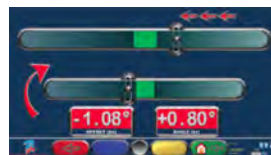
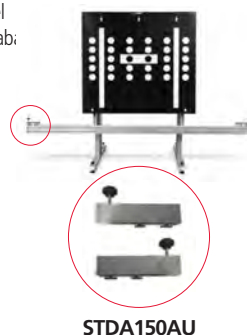
Dealers can purchase a reduced package from the ADAS software and panel producers which includes the panel and the tablet with ADAS software, datab; and tutorial. The reduced package does not include the laser alignment hardware with clamps since the panel positioning is done with the aligner.

Our 3D or CCD aligner should be equipped with:

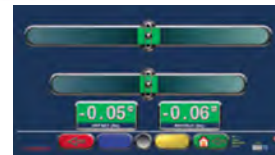
STDA141ADA / Token to upgrade aligner software with ADAS panel calibration functions. It includes ALIGNER CONNECT remote function for visualization on smartphone or tablet.

STDA150AU / Set of adapters to mount alignment targets / measuring heads on a AUTEL panel

STDA150TX / Set of adapters to mount alignment targets / measuring heads on a TEXA panel



CCD ALIGNER



3D ALIGNER





TWSR Truck Aligners

- Significantly higher income production through superior efficiency
- Much faster operating times without any loss of accuracy
- Simpler system to learn, less training time involved
- Bluetooth® communication between front heads and cabinet
- Infrared transmission between sensor heads
- Double inclinometer allows caster adjustment without steering
- STDA92 no run out clamps enabling to skip run-out compensation procedure are recommended
- Suitable for car wheels with VARCOMBO truck / car alignment combination. VARCOMBO transforms the 6CCD truck wheel aligner with lowered sensors into a wheel aligner for both trucks and cars. Passenger vehicle clamps required.



Faster and more reliable data transmission through Bluetooth.

**6CCD
SENSORS**



**TRUCK
ALIGNERS**

TD 8060 TWSR
6CCD sensors - TFT 19"

4 REMOTE CONTROLS

Ability to operate the system from any measuring head. Often the operator is far from the console and this slows down the operating speed.

4 LED SENSORS

New 4 LED sensors allow alignment reading up to 59 feet (18 meters).



QUICK CHARGE

Contacts for battery charging



UNIVERSAL USE floor, pit or lift



LED REPEATER

LEDs on the measuring head inform operator know when adjustment angle is within specification range.

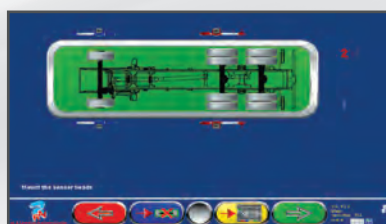
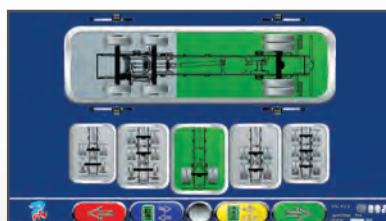
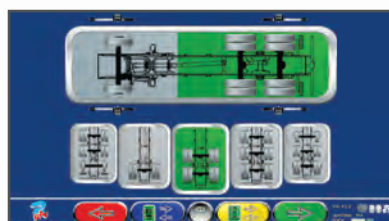




Intuitive graphics for quick operation.



Measurement of multiple axles vehicles thanks to an extremely easy-to-follow procedure.



- Data management and display program in WINDOWS® environment.
- Customer data bank for recording jobs with search by customer name or vehicle plate number.
- Data bank with vehicle data sheets already entered and further blank sheets to be filled.
- Summary and comparison of diagnosis/repair values on a single screen.

MULTIPLE AXLE RUN-OUT



Fast run-out of multiple axle with only two positions

FAST CLAMPS eliminates run-out compensation



STDA92

Set of 2 non-runout quick adapters. By referencing the wheel center, which is almost perfectly accurate, we can deliver a more accurate measurement without needing to raise each axle or to roll the vehicle to perform run-out compensation. This improves accuracy while saving 15-20 minutes per truck.

STANDARD

- 1 control unit complete with PC, monitor, key-board, printer and battery-charger
- 2 Front measuring heads
- 2 Rear measuring heads
- 1 Brake pedal presser
- 1 Steering clamp

OPTION

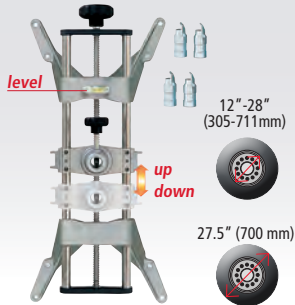
STDA141 - REMOTE CONTROL on SmartPhone

ALIGNER CONNECT





TRUCK ALIGNMENT ACCESSORIES



STDA30E
Pair of self-centering 4 point clamps with long removable claws. Moving center crosspiece to adapt the position of the sensor to the vehicle body.

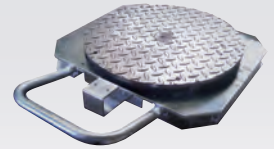


STDA48E
Pair of self-centering 4 point clamps, with tire grabber arms and metal removable conic claws.



STDA92
Set of 2 non-runout quick adapters.

STANDARD



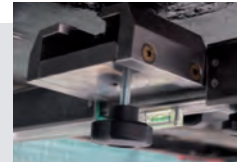
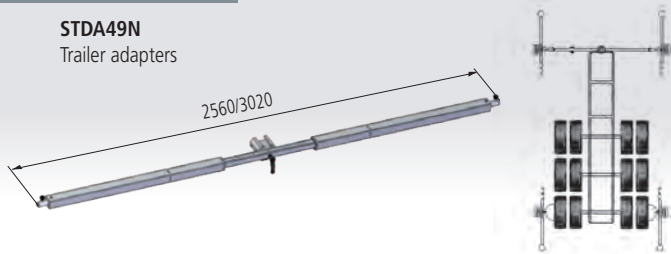
STDA29L - 14,5" (Ø 370mm)
Set of 2 commercial turnplates.
Capacity 2x10,000 lbs (2x4500 kg)



STDA44L
Graduated scale for STDA29L

Trailer

STDA49N
Trailer adapters



(Truck) + Car



ACCESSORIES FOR CAR (→ TD8080TWS - TD8060TWS)



STDA33EU 10"-24"



S110A7 - Ø 310 mm
(12.2") 2x220 lbs

COMBO*

VARCOMBORAV for RAVTD8060TWSR

Includes: 2 additional light duty front heads and recharging cradle.

It features double bluetooth calibration and double pairing to work with HD and LD vehicle



*Factory order



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