

FASTEST TRUCK ALIGNER

 **Jumbo 3D**



12 X Faster Alignment Results

36 X Faster Wheel Runout Values

FAST MEASUREMENTS

Revolutionizes Truck Alignment Industry through
Super High Productivity & Reduced Costs

That's Why at Manatec, we believe
3D Alignment is the future in Commercial
Vehicle Industry and developed our Fastest
Truck Aligner Jumbo 3D, which completes
entire measurements upto 6 axles under 3 mins.

This technological breakthrough results in high
productivity and reduced operating costs thus
adding value to **FLEET OWNERS,**
WORKSHOP OWNERS &
TECHNICIANS.

WELCOME TO THE FUTURE IN
MULTI-AXLE ALIGNMENT
JUMBO 3D



- ★ Simultaneous Runout measurement up to **6 axles in less than 1 min.**
- ★ Simultaneous Caster & Kingpin measurement of Twin steer axles in **less than 2 min.**
- ★ Measurement of all axles within **3 min.**
- ★ **No Jack up** of axles and **No Pushing** of vehicle for Runout
- ★ **No Electronics** on wheels
- ★ High Productivity and Faster **ROI**



Innovative Image Processing Technology

- HD Quad Cameras
- User friendly software sequence
- High Speed Data Transmission USB 3.0 ports
- Latest Technology Innovative Digital 3D Image processing technology.
- Stationary camera No frequent calibration required
- Direct Power supply No battery charging / discharging issues

One shot Runout Compensation of all 6 axles No Pushing / No Lifting

- **Simultaneous Alignment** One shot Runout compensation upto 6 Axles within 3 mins
- **Ease of Operation** Runout compensation by driving the vehicle
- **Technician Friendly** No need of jacking of Wheels
- **High Productivity** Quick process, more number of Alignments per day



One Shot Caster swing for twin steer axles



- **Single Shot Caster Swing** for Twin Steerable axles
- **Standard accessory** Turn Tables 4 nos, each 7 ton capacity
- **Fixed target** No need to remove and refix the targets for each axle

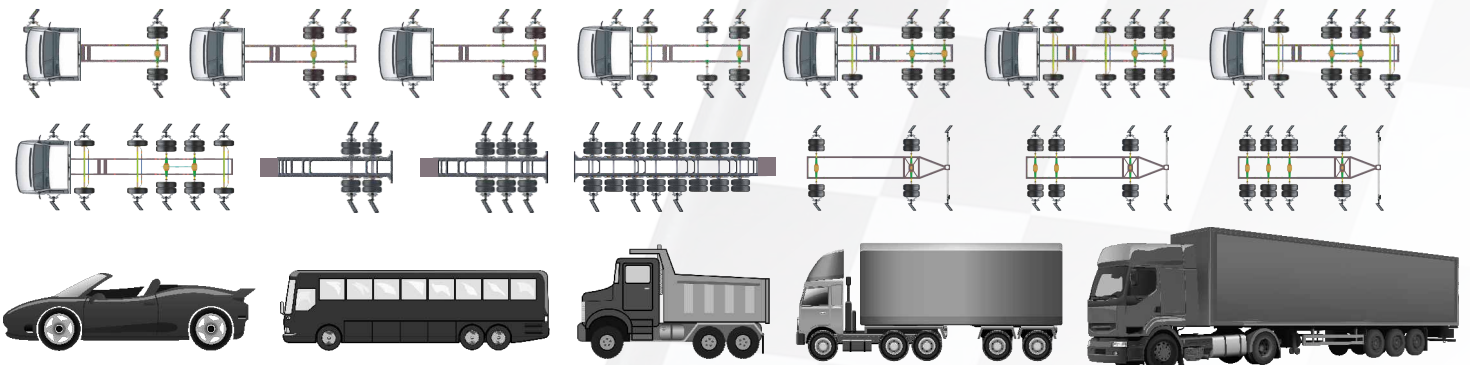
No Electronics on wheels



- **No Electronics on wheels** No Battery related issues
- **No need for frequent calibration** even when accidently dropped
- **Negligible service & maintenance cost**

Multiple Vehicle Compatibility

Various type of Axle Assembly of TRUCKS, BUSES, TRAILERS, FULL TRAILERS & also CARS

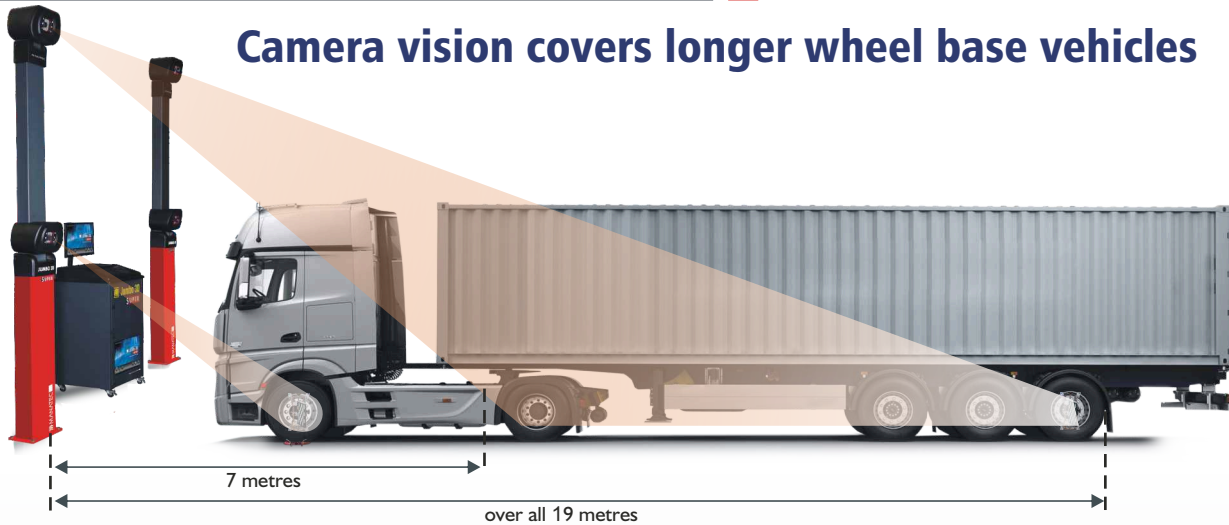


- **Multiple Compatibility** Suitable for all types of Vehicle Configuration. (Trucks, Buses, Trailers & Cars)
- **New Vehicle Data** Provision for adding new vehicle specification / Configuration

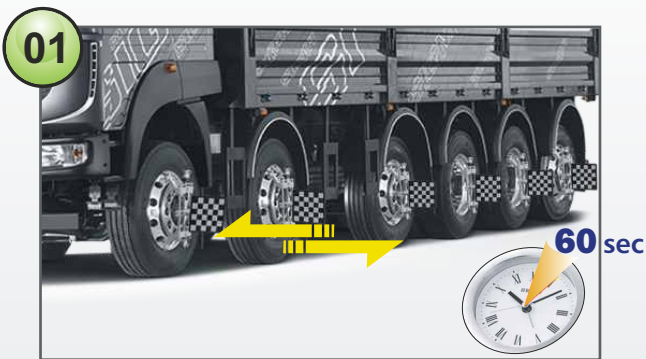
Perfect solution for long Multi-axle vehicles
up to 6 axles & trailers

Jumbo 3D
FASTEST TRUCK ALIGNER

Camera vision covers longer wheel base vehicles



Get Alignment results of all 6 axles under **3** minutes



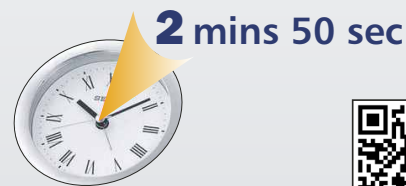
One shot Runout Compensation of 6 axles simultaneously



One shot Caster swing of twin steer axles



All results in one screen



2 mins 50 sec



Scan for visual experience

2 min 50 sec

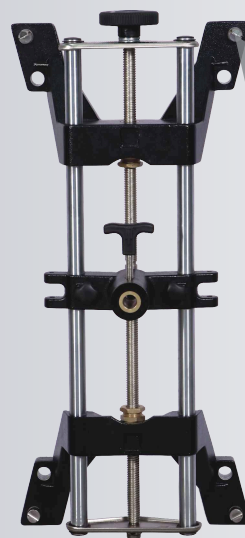
Smart Support without Internet



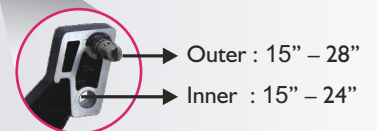
Tablet operation

Highly user-friendly Wi-Fi enabled Tablet & Mobile device to display alignment results & to operate PC from Alignment bay. Avoids multiple trips to PC console.

Universal Wheel Bracket



Suitable for 15" – 28" rim diameter.



Tubeless Rim & Alloy Rim Tube Rim & Flat Rim
Double end rim locking pins
for operating on steel and alloy wheels

Universal pin adaptor serves as extender for using the pins for protruding rims

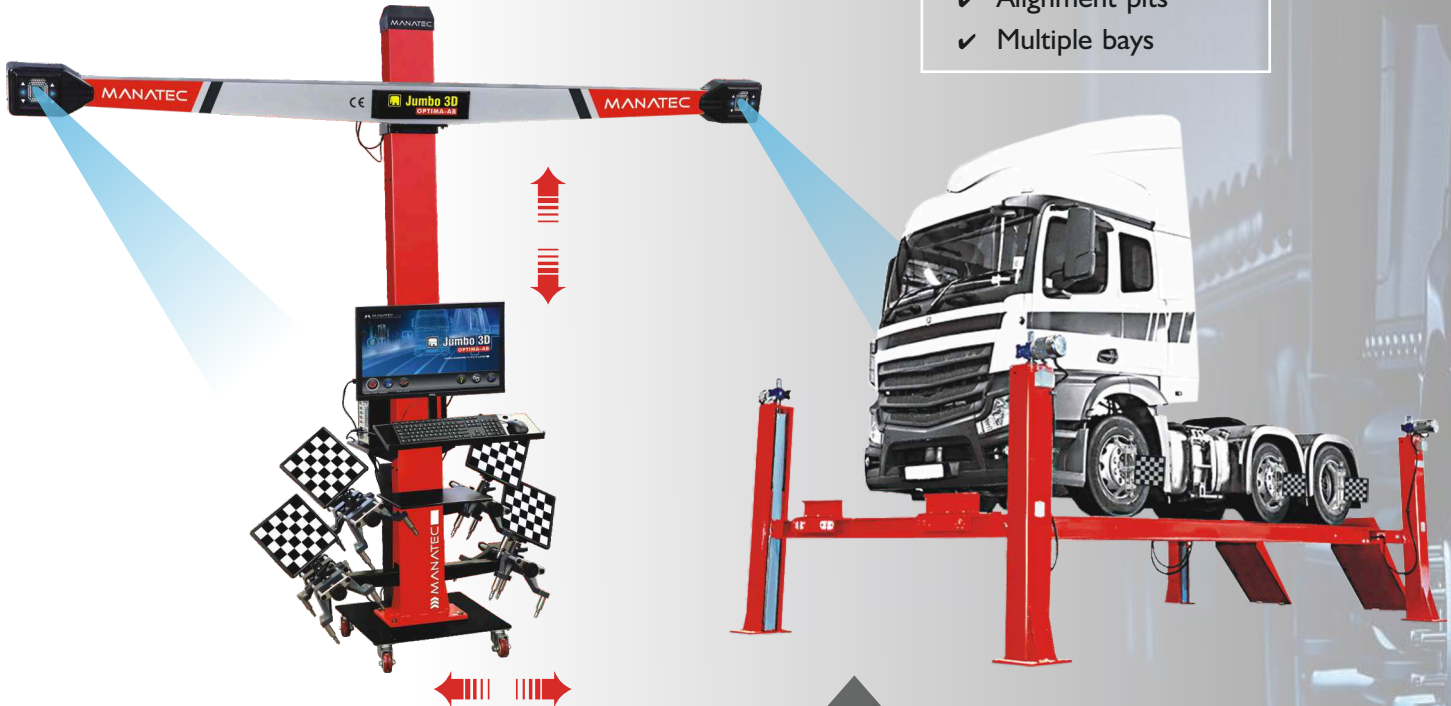
Lift Version

Designed to suit lift based wheel alignment. **Camera beam adjusts automatically with the movement of the vehicle on alignment lift.**

Measurements at floor level, adjustments at any convenient height. **Equipment can be moved between bays for multi-bay operations.** Comes with mobile trolley for easy mobility.

Wheel Alignment can be performed simultaneously up to 3 axles on alignment lift and more axles on alignment pit.

- Suitable for**
- ✓ Four Post Lifts
 - ✓ Scissor Lifts
 - ✓ Platform Lifts
 - ✓ Alignment pits
 - ✓ Multiple bays



Jumbo 3D OPTIMA-AB

1 MACHINE = MULTIPLE BAY

Mobile Version

Designed to perform wheel alignment on Alignment pit. **Equipment can be moved between bays for multi-bay operations.** Comes with mobile trolley for easy mobility.

Wheel Alignment can be performed simultaneously up to 2 axles & more axles sequentially on alignment pit.

Jumbo 3D OPTIMA-M

- Movement between multiple bays
- Less investment
- High productivity
- No calibration during installation
- Cabinet for housing PC
- Optional secondary monitor



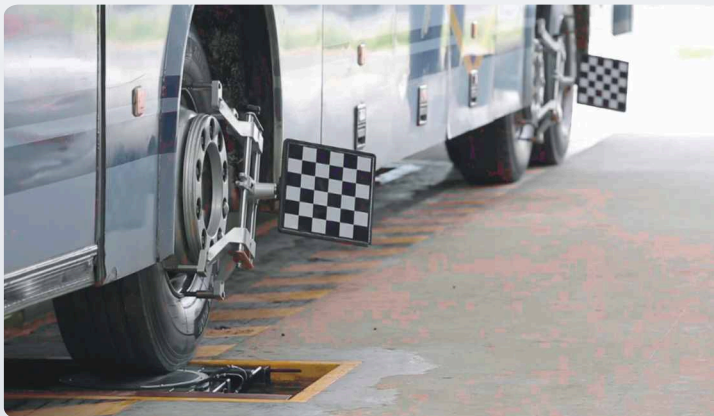
Model :  **Jumbo 3D OPTIMA**


← Suitable for
single bay budget
workshops

2 mins 50 sec



**Easy Runout within 1 minute
No Pushing / No Lifting**



- Wheel Alignment can be performed simultaneously up to 2 axles & more axles sequentially on alignment pit.
- All measurements within 3 mins for 2 axles
- Quick results, high productivity
- More number of alignments per day
- Sequential alignment of multi axles
- Ideal for budget workshops
- Optional secondary monitor

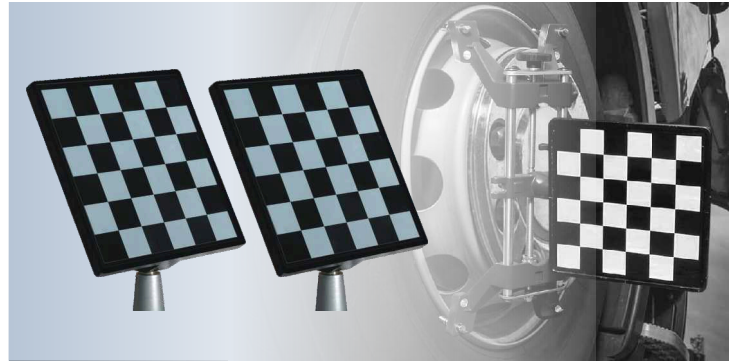
Choose your Jumbo 3D

	JUMBO 3D Super 6A	JUMBO 3D Super 5A	JUMBO 3D Super 4A	JUMBO 3D Optima AB	JUMBO 3D Optima M	JUMBO 3D Optima
Suitable for alignment of Buses, Trucks, Trailers & Cars	✓	✓	✓	✓	✓	✓
Compatible with Multi-axes (up to 16 wheel vehicles)	✓	✓	✓	✓	✓	✓
Measurement of alignment angles up to 6 axles	✓	✓	✓	✓	✓	✓
Trailer alignment	✓	✓	✓	✓	✓	✓
Drive Thru' option	✓	✓	✓	✓	✓	✓
Alignment on pit	✓	✓	✓	✓	✓	✓
Alignment on Lift	X	X	X	✓	X	X
Multi bay operation	X	X	X	✓	✓	X
Display of Toe in "deg. min"/"deg." / "mm"/"mm/M" / "inch" & other angles in "deg."/"deg. min"/deg. fraction (1½°)	✓	✓	✓	✓	✓	✓

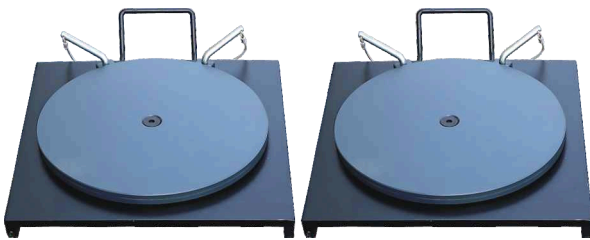
Accessories *



Wheel brackets (15"-28")



Target plates



Rotary plates (7 ton) with Spacers



Steering lock



Brake lock

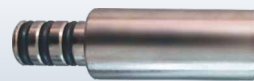


LED monitor (21.5")
HDMI / DP interface

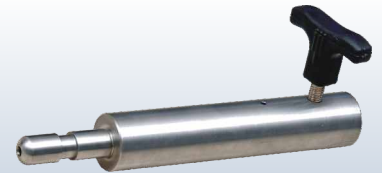
LED monitor
secondary (21.5") HDMI
/ DP interface



PC console with Windows 10 IoT,
Key board & Mouse



Adaptor for rim locking pins
with storage box



Front target plate extension spacer
150 mm long



Target stands



Truck alignment &
Data Manager software



Wheel stoppers



Steering lock (LCV)



Brake pedal lock (LCV)

* Check with Manatec representative for scope of supply of various models.

Optional Accessories



Wheel bracket extension adaptors upto 30"



Rotary plate ramp (for on-ground alignment)



Frame reference gauge



Frame offset gauge



Tyre dia gauge



Pusher / Tag axle Tie Rod lock



Drawbar gauge (Full trailer)



4 shaft calibration kit



Extension spacer (600 mm) for Drive Thru' calibration kit



Double end rim locking pins (Steel rims)



Double end rim locking pins (Low profile Steel rims)



Double end rim locking pins (Long bolt rims)

Drive Thru' kit (for models 4A, 5A & 6A only)



Chain Block with Ratchet (Rear single axle adjuster)



Models can be **UPGRADED** from 4 axles to 5 axles or 6 axles at any time.



OEM Approvals



MANATEC ELECTRONICS LLC.

Unit D 16, 10795 Hammerly LLC, Houston, TX 77043, USA
 Phone : +1 734 629 2672 | +1 650 630 8507
 Email : sales@manatecusa.com
 www.manatec.us



Scan to find out how Jumbo 3D adds tremendous value to industry stake holders

FLEET OWNERS
 WORKSHOP OWNERS
 TECHNICIANS

