

WELCOME TO THE FUTURE in Multi-axle Alignment
Measures all **6** axles under **3** min.



World's 1st 3D Wheel Aligner
for Multi-Axle Trucks, Buses & Trailers

 **Jumbo 3D**

PATENTED

USA #US10480937B2
Australia #2017100084
Europe #EP3199912B1
India #361892



- 12 times faster alignment results
- 36 times faster wheel Runout values
- No Electronics on wheels
- Technician friendly operation

Exporting to 75+ countries



Innovative Image Processing Technology

- **HD Quad Cameras** with 10 Megapixels
- **High Speed Data Transmission** USB 3.0 ports
- **Latest Technology** Innovative Digital 3D Image processing technology.
- **Stationary camera** No frequent calibration due to accidental fall or mishandling
- **Direct Power supply** No battery charging / discharging issues

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

- **Simultaneous Alignment** One shot Run out compensation upto 6 Axles within 3 mins
- **Ease of Operation** Run out 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 of each 7 ton capacity
- **Fixed target** No need to remove and refix the targets for each axle

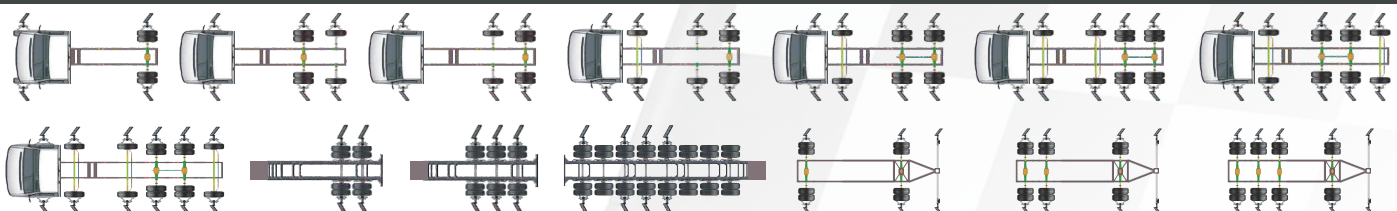
No Electronics on wheels



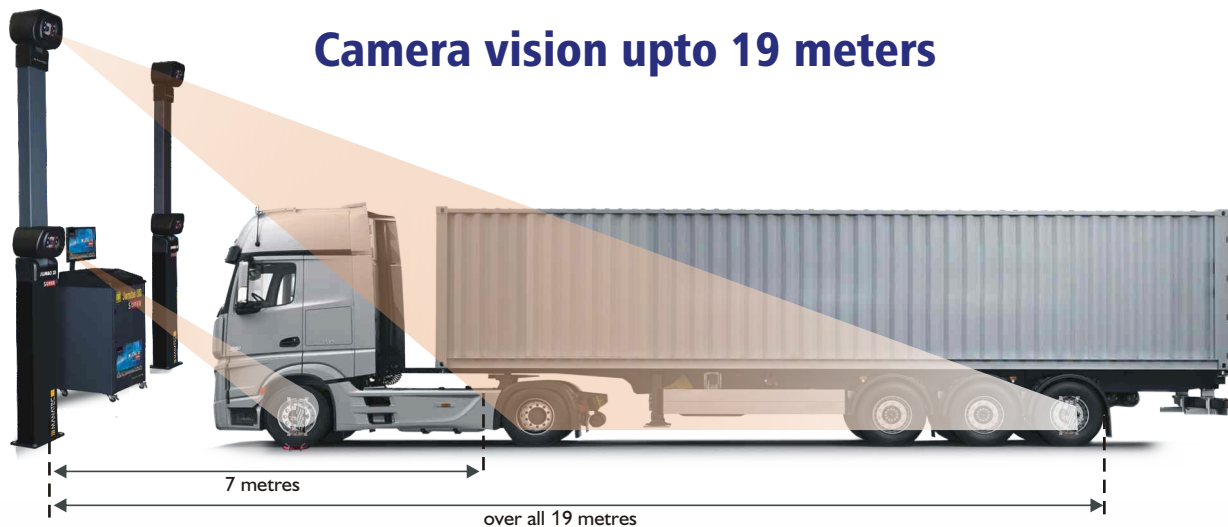
- **No Electronics on wheels** No Battery related issues
- **No need for frequent calibration** even when accidentally dropped
- **Negligible service & maintenance cost**

100% Vehicle Compatibility

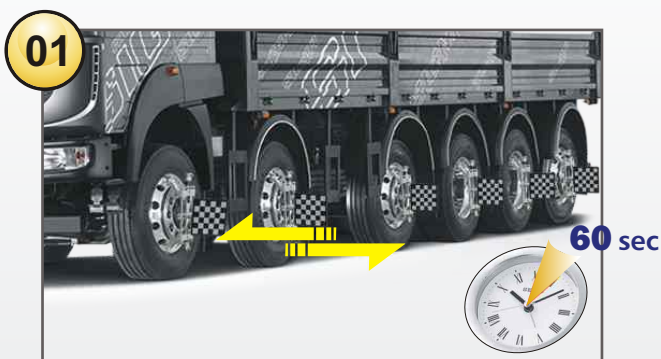
Various type of Axle Assembly of TRUCKS, BUSES, TRAILERS & FULL TRAILERS



- **100% Compatible** Suitable for all types of Vehicle Configuration. (Including Cars, Trucks, Buses & Trailers)
- **New Vehicle Data** Provision for adding new vehicle specification / Configuration



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 min 50 sec

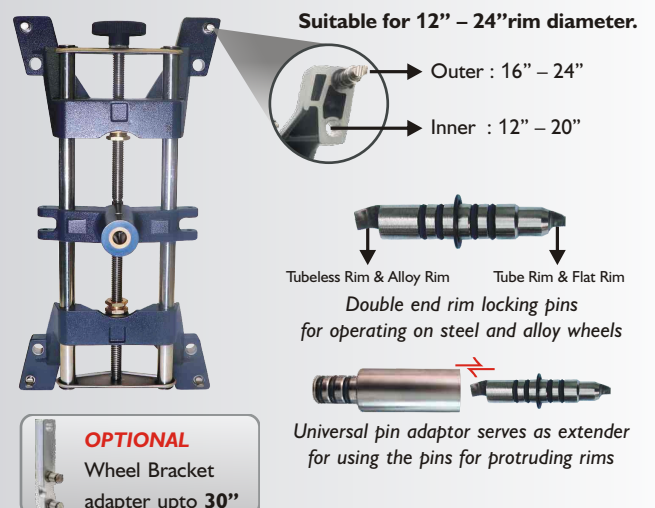
Smart Support without Internet



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



JUMBO 3D OTHER MODELS



Model : **Jumbo 3D OPTIMA**



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



- Runout of all 6 axles by driving the vehicle sequentially
- All measurements within 3 mins for 2 axles
- Quick results, high productivity
- More number of alignments per day
- Sequential alignment of multi axles
- Optional secondary monitor

Model : **Jumbo 3D OPTIMA-M**



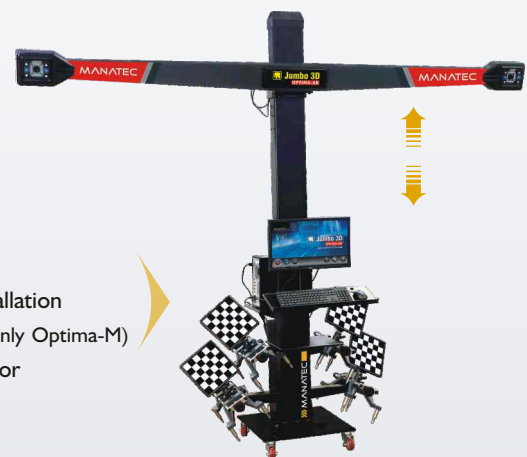
MOBILE VERSION

- Less investment
- High productivity
- No calibration during installation
- Cabinet for housing PC (only Optima-M)
- Optional secondary monitor

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 upto 6 axles, sequentially.

Model : **Jumbo 3D OPTIMA-AB**



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 upto 3 axles on alignment lift and upto 6 axles on alignment pit, sequentially.














Salient Features

	JUMBO 3D Super 6A	JUMBO 3D Super 5A	JUMBO 3D Super 4A	JUMBO 3D Optima	JUMBO 3D Optima M	JUMBO 3D Optima AB
Suitable for alignment of Buses, Trucks, Trailers & Cars	✓	✓	✓	✓	✓	✓
Suitable for alignment of Articulated Buses (Drive Thru)	✓	✓	✓	X	X	X
Compatible with Multi-axles (up to 16 wheel vehicles)	✓	✓	✓	✓	✓	✓
Simultaneous alignment of Vehicles	6 Axles	5 Axles	4 Axles	2 Axles	2 Axles	2 Axles
Sequential alignment of 6 axles	X	✓	✓	✓	✓	✓
Alignment of Trailers up to 8 axles in reverse parking by 2 steps	✓	✓	✓	X	X	X
Simultaneous alignment of Trailers up to 3 Axles in forward parking & reverse parking	✓	✓	✓	X	X	X
Sequential alignment of Trailers up to 3 axles by reverse parking	NA	NA	✓	✓	✓	✓
Display of Toe in "deg. min"/"deg." / "mm"/"mm/M" / "inch" & other angles in "deg."/"deg. min"/deg. fraction (1½°)	✓	✓	✓	✓	✓	✓
Drive Thru' option	✓	✓	✓	X	X	X
Camera coverage (Camera to last Target plate)	19 m	19 m	19 m	13 m	13 m	13 m

Accessories - Scope of supply

		JUMBO 3D Super 6A	JUMBO 3D Super 5A	JUMBO 3D Super 4A	JUMBO 3D Optima	JUMBO 3D Optima M	JUMBO 3D Optima AB
	Wheel brackets (12"-24")	12 Nos.	10 Nos.	8 Nos.	4 Nos.	4 Nos.	4 Nos.
	Target plates	12 Nos.	10 Nos.	8 Nos.	4 Nos.	4 Nos.	4 Nos.
	Rotary plates (7 ton) with Spacers	4 Nos.	4 Nos.	4 Nos.	4 Nos.	4 Nos.	4 Nos.
	Steering lock	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	Brake pedal lock	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	PC console with Windows 10 IoT, Key board & Mouse	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	LED monitor (21.5") HDMI / DP interface	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	LED monitor secondary (21.5") HDMI / DP interface	1 No.	1 No.	1 No.	Optional	Optional	Optional
	Wheel stoppers	2 Nos.	2 Nos.	2 Nos.	2 Nos.	2 Nos.	2 Nos.
	Truck alignment & Data manager software	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	Target stands	3Tx4 Nos	3Tx2 Nos 2Tx2 Nos	2Tx4 Nos	Optional	Optional	Optional
	Steering lock (LCV)	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	Brake pedal lock (LCV)	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	Front target plate extension spacer 150 mm long	6 Nos.	6 Nos.	6 Nos.	4 Nos.	4 Nos.	4 Nos.
	Adaptor for rim locking pins with storage box	48 Nos.	40 Nos.	32 Nos.	16 Nos.	16 Nos.	16 Nos.

Optional Accessories

		JUMBO 3D Super 6A	JUMBO 3D Super 5A	JUMBO 3D Super 4A	JUMBO 3D Optima	JUMBO 3D Optima M	JUMBO 3D Optima AB
	Wheel brackets (15"-28")	12 Nos.	10 Nos.	8 Nos.	4 Nos.	4 Nos.	4 Nos.
	Rotary plate ramp (for on-ground alignment)	6 Nos.	6 Nos.	6 Nos.	6 Nos.	6 Nos.	6 Nos.
	Frame reference gauge	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	Frame offset gauge	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	Tyre diameter gauge	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	Drawbar gauge (Full trailer)	1 No.	1 No.	1 No.	–	–	–
	4 shaft calibration kit	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.
	Extension spacer (600 mm) for Drive Thru' calibration kit	4 Nos.	4 Nos.	4 Nos.	–	–	–
	Double end rim locking pins (Steel rims)	48 Nos.	40 Nos.	32 Nos.	16 Nos.	16 Nos.	16 Nos.
	Double end rim locking pins (Low profile Steel rims)	48 Nos.	40 Nos.	32 Nos.	16 Nos.	16 Nos.	16 Nos.
	Double end rim locking pins (Long bolt rims)	48 Nos.	40 Nos.	32 Nos.	16 Nos.	16 Nos.	16 Nos.
	Drive Thru' kit	1 No.	1 No.	1 No.	–	–	–
	Chain Block with Ratchet (Rear single axle adjuster)	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.

Technical Specifications

Measurement parameters

	Range	Accuracy*
Camber (Front / Rear)	± 15° 00'	± 00° 02'
Caster	± 28° 00'	± 00° 05'
Kingpin Inclination	± 25° 00'	± 00° 05'
Toe (Front / Rear)	± 20° 00'	± 00° 02'
Total Toe	± 40° 00'	± 00° 04'
Scrub / Thrust angle	± 10° 00'	± 00° 02'
Runout	± 10° 00'	± 00° 02'
Included angle	± 40° 00'	± 00° 05'
Track width	Actual	± 2 mm
Power supply	110V AC, 60Hz / 230V AC, 50Hz	
Power	250W (400W for Optima AB)	
Operating temperature	0° - 50°C	

* Above specified accuracy levels are subjected to laboratory test jig condition.



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



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