



Jumbo 3D Wheel Aligner

for Multi-Axles Trucks, Buses & Trailers



Models : JUMBO 3D Super 6A
JUMBO 3D Super 5A
JUMBO 3D Super 4A



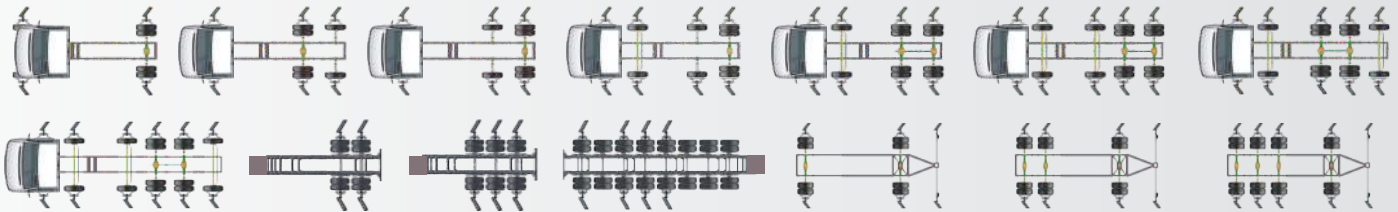
Windows 10 IoT

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

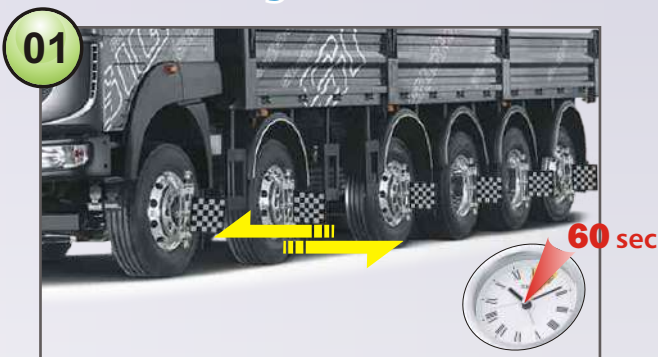


- One shot Runout compensation of all 6 axles by driving the vehicle
- One shot caster swing for twin steer axles
- Quick results, high productivity
- More number of alignments per day

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



Get Alignment results of all 6 axles under 3 minutes



One shot Runout Compensation of 6 axles simultaneously



Caster swing can be performed for twin steer axles simultaneously.



All results in one screen



2 min 50 sec

JUMBO 3D OTHER MODELS



Model : **Jumbo 3D OPTIMA**



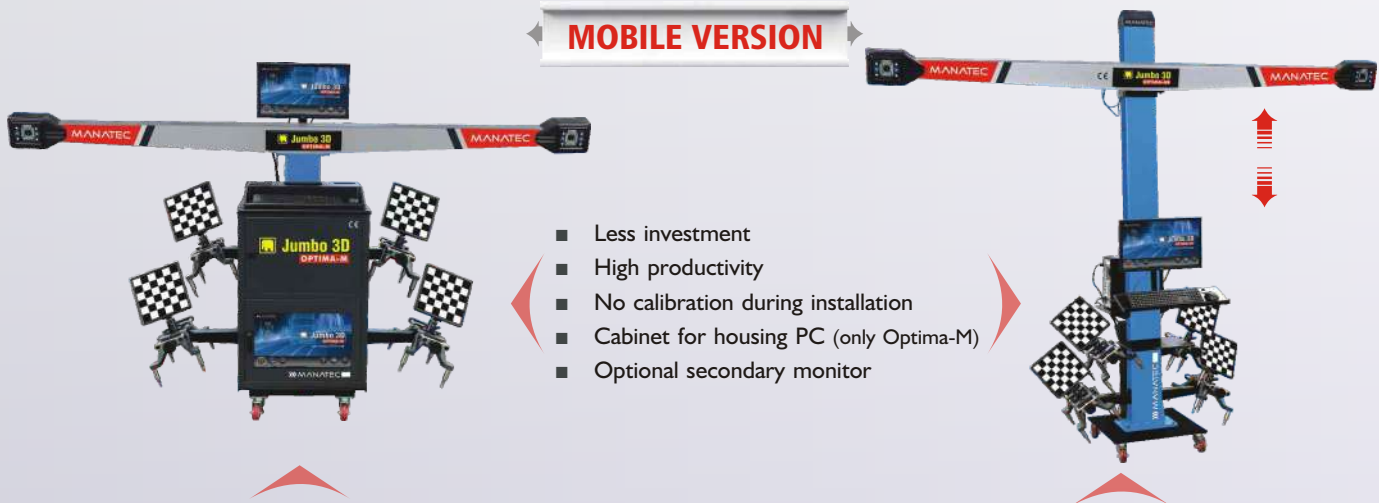
**Easy Runout within 1 minute
No Pushing / No Lifting**



- 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**

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



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.

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 Through)	✓	✓	✓	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

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 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**

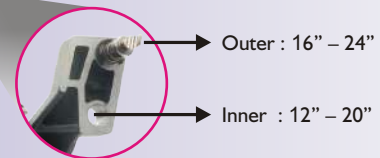
Chain Block with Ratchet (Rear single axle adjuster)

- Useful tool for Thrust / Scrub angle adjustment.
- Precise adjustment in quick time.
- Saves considerable time and energy.

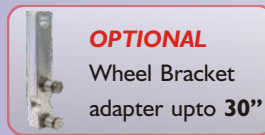


Universal Wheel Bracket

Suitable for 12" – 24" rim diameter.



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

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.



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
Operating temperature	0° - 50°C	

Power supply : 230V AC, 50Hz / 110V AC, 60Hz
Power : 250W (400W for Optima AB)

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

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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.
	Chain Block with Ratchet (Rear single axle adjuster)	1 No.	1 No.	1 No.	1 No.	1 No.	1 No.