Jumbo 3D Wheel Aligner

for Multi-Axles Trucks, Buses & Trailers

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

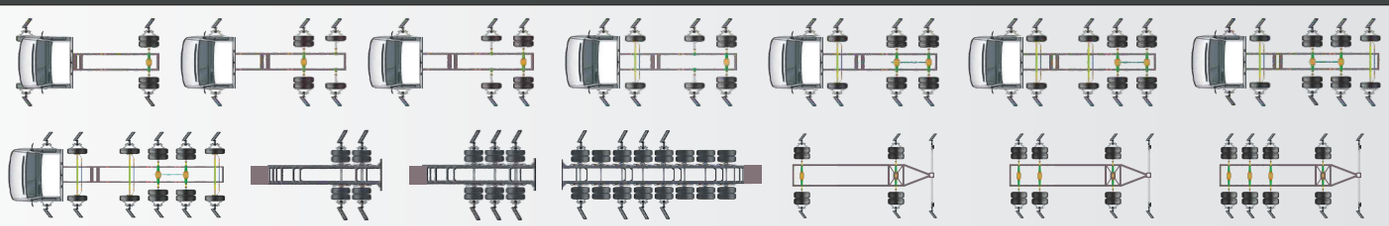
Jumbo 3D
FASTEST TRUCK ALIGNER

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

Windows10 IoT

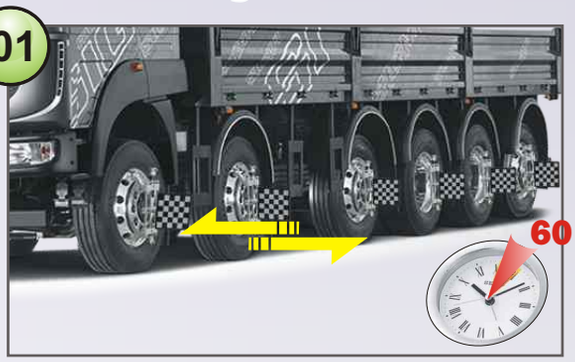
- One shot Runout compensation of all 6 axles by driving the vehicle
- One shot caster swing for twin steer axles
- Quick results, high productivity
- More number of alignments per day

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



Get Alignment results of all 6 axles under 3 minutes

01

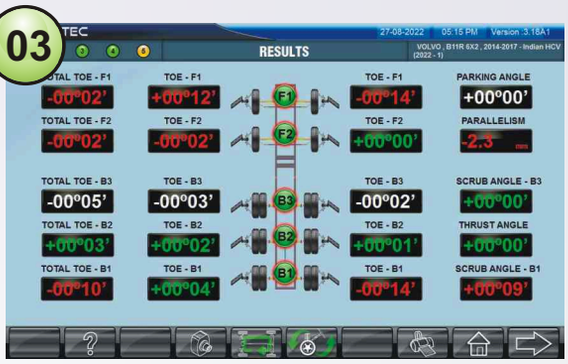


One shot Runout Compensation of 6 axles simultaneously

02

Caster swing can be performed for twin steer axles simultaneously.

03



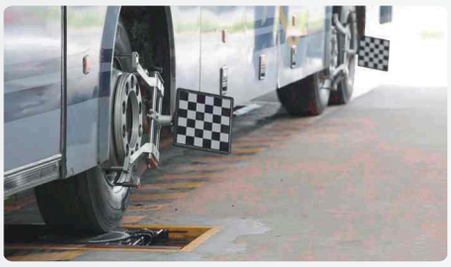
All results in one screen

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**

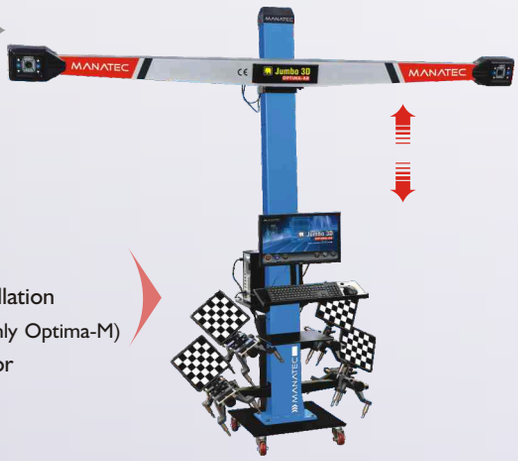
Designed to perform wheel alignment on Alignment pit. ***Equipment can be moved between bays for multi-bay operations.*** Comes with mobile trolley for easy mobility.

Wheel alignment can be performed upto 6 axles, sequentially.

MOBILE VERSION

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

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 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

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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 accidently dropped
- **Negligible service & maintenance cost**

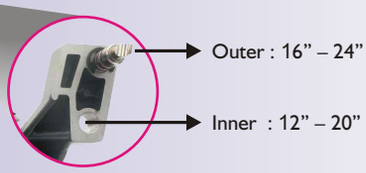
Chain Block with Ratchet

(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

OPTIONAL
Wheel Bracket adapter upto **30"**

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.

Optional Accessories available on request