

# **Jumbo 3D SUPER**

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



**PATENTED**  
• USA • AUSTRALIA • INDIA

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

Exporting to 70<sup>+</sup> countries

- One shot Runout compensation of all 6 axles simultaneously
- One shot Caster swing for twin steer axles
- Ideal for all workshops, tyre shops & OEM end of line requirements

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



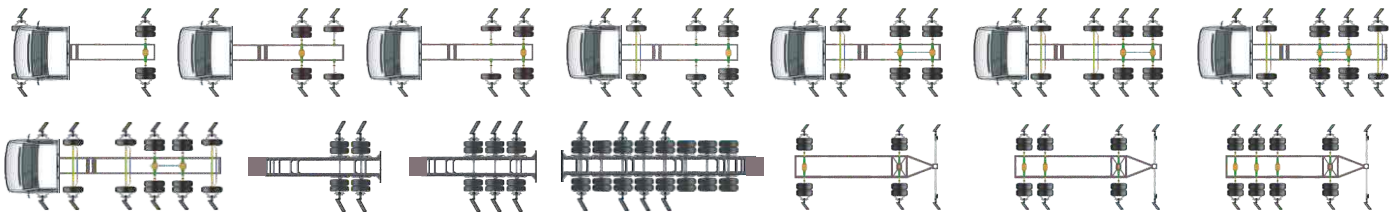
Windows 10 IoT

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

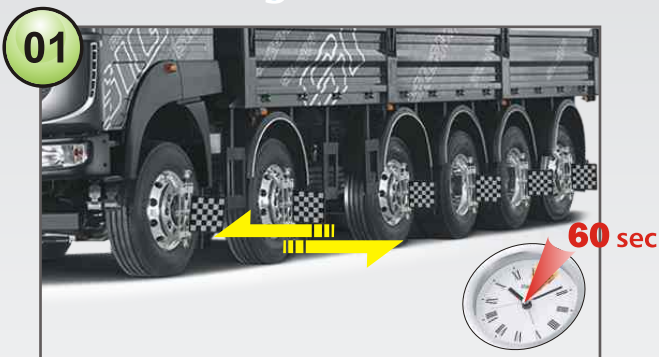


- One shot Runout compensation of all 6 axles by driving the vehicle
- One shot caster swing for twin steer axles
- Quick results, high productivity
- More number of alignments per day

### 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



One shot Caster swing of twin steer axles



All results in one screen



2 min 50 sec

Model :  **Jumbo 3D OPTIMA**

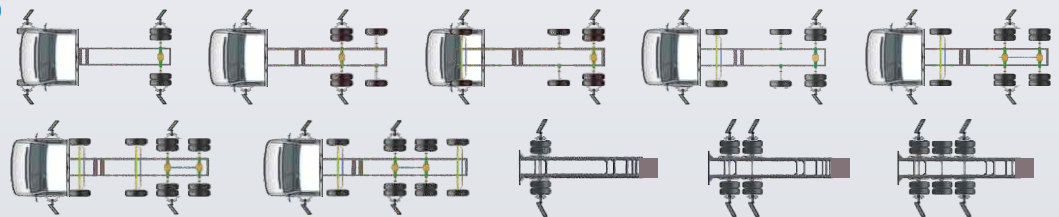
**Easy Runout within 1 minute  
No Pushing / No Lifting**



- 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

 Windows 10 IoT

*Various type of  
Axle Assembly for  
TRUCKS & TRAILERS*



## Salient Features

Suitable for alignment of Buses, Trucks, Articulated Buses, Trailers & Cars
Suitable for sequential alignment of Buses, Trucks, Trailers (upto 3 Axles) & Cars
Compatible with Multi-axles (up to 16 wheel vehicles)
Simultaneous alignment of Vehicles
Sequential alignment of 6 axles
Alignment of Trailers up to 8 axles in reverse parking by 2 steps
Simultaneous alignment of Trailers up to 3 Axles in forward parking & reverse parking
Sequential alignment of Trailers up to 3 axles by reverse parking
Export option for Data manager reports
Power failure data protection (Resuming of current job in which stage the power failure happened)
Display of Toe in "deg. min"/"deg." / "mm"/"mm/M" / "inch" & other angles in "deg."/"deg. min"/deg. fraction (1½°)
Drive Through option
Upgradation to models
Camera coverage (Camera to last Target plate)
Suitable for aligning multiple steer axle

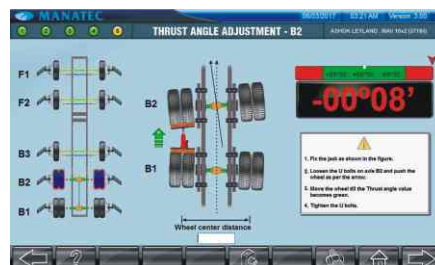
	JUMBO 3D Super 6A	JUMBO 3D Super 5A	JUMBO 3D Super 4A	JUMBO 3D Super 3A	JUMBO 3D Optima
Suitable for alignment of Buses, Trucks, Articulated Buses, Trailers & Cars	✓	✓	✓	X	NA
Suitable for sequential alignment of Buses, Trucks, Trailers (upto 3 Axles) & Cars	NA	NA	NA	NA	✓
Compatible with Multi-axles (up to 16 wheel vehicles)	✓	✓	✓	X	✓
Simultaneous alignment of Vehicles	6 Axles	5 Axles	4 Axles	3 Axles	2 Axles
Sequential alignment of 6 axles	X	X	X	X	✓
Alignment of Trailers up to 8 axles in reverse parking by 2 steps	✓	✓	✓	X	X
Simultaneous alignment of Trailers up to 3 Axles in forward parking & reverse parking	✓	✓	✓	✓	X
Sequential alignment of Trailers up to 3 axles by reverse parking	NA	NA	NA	NA	✓
Export option for Data manager reports	✓	✓	✓	✓	✓
Power failure data protection (Resuming of current job in which stage the power failure happened)	✓	✓	✓	✓	✓
Display of Toe in "deg. min"/"deg." / "mm"/"mm/M" / "inch" & other angles in "deg."/"deg. min"/deg. fraction (1½°)	✓	✓	✓	✓	✓
Drive Through option	✓	✓	✓	✓	X
Upgradation to models	X	6A	5A & 6A	5A & 6A	5A & 6A
Camera coverage (Camera to last Target plate)	19 m	19 m	19 m	19 m	13 m
Suitable for aligning multiple steer axle	✓	✓	X	X	✓

## Parallelism Adjustment



Alignment of Front twin steerable axles to maintain parallel condition

## Thrust / Scrub Angle Adjustment



Alignment of Rear multi axles

## Cam Bushing Program



Cam bushing program for pickup vehicles

## Innovative Image Processing Technology



Jumbo 3D uses latest, innovative, digital-imaging technology by deploying digital camera system for data-acquisition. High resolution 10 Megapixels digital cameras operate with intelligent software & capture seamless images of targets

## One Shot Caster swing for twin axles



- Caster swing can be performed for twin steer axles simultaneously
- 4 nos Rotary plates supplied as standard accessory
- No need to remove and refix the targets for each axle

## No Electronics on wheels



Compared to other International brands

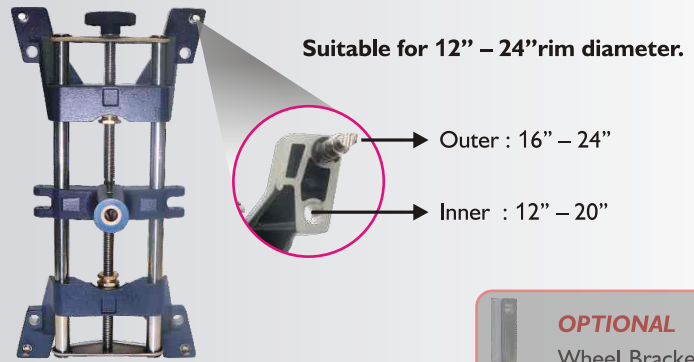
- No expensive service bills due to accidental drop of electronic sensors
- No sensor calibration issues
- No battery discharge issues
- No RF interference
- Compact and light weight

## Chain Block with Ratchet (Rear single axle adjuster) - Optional

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



## Universal Wheel Bracket



**OPTIONAL**  
Wheel Bracket adapter upto 30"

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

## 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'
Setback (Front / Rear)	± 25 mm	± 2 mm
Scrub / Thrust angle	± 10° 00'	± 00° 02'
Runout	± 10° 00'	± 00° 02'
Included angle	± 40° 00'	± 00° 05'
Track width	<b>Actual</b>	± 2 mm
Power supply	<b>230V AC, 50Hz / 110V AC, 60Hz</b>	
Power	<b>250W</b>	
Operating temperature	<b>0° - 50°C</b>	

## Accessories - Scope of supply

JUMBO 3D Super 6A    JUMBO 3D Super 5A    JUMBO 3D Super 4A    JUMBO 3D Super 3A    JUMBO 3D Optima

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

# Optional Accessories

		JUMBO 3D Super 6A	JUMBO 3D Super 5A	JUMBO 3D Super 4A	JUMBO 3D Super 3A	JUMBO 3D Optima
	Wheel bracket extension adaptors upto 30"	48 Nos.	40 Nos.	32 Nos.	24 Nos.	16 Nos.
	Rotary plate ramp	6 Nos.	6 Nos.	6 Nos.	2 Nos.	6 Nos.
	Frame reference gauge	1 No.	1 No.	1 No.	1 No.	1 No.
	Frame offset gauge	1 No.	1 No.	1 No.	1 No.	1 No.
	Tyre dia guage	1 No.	1 No.	1 No.	1 No.	1 No.
	Drawbar gauge (Full trailer)	1 No.	1 No.	1 No.	1 No.	-
	4 shaft calibration kit	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.	4 Nos.	-
	Double end rim locking pins (Steel rims)	48 Nos.	40 Nos.	32 Nos.	24 Nos.	16 Nos.
	Double end rim locking pins (Low profile Steel rims)	48 Nos.	40 Nos.	32 Nos.	24 Nos.	16 Nos.
	Double end rim locking pins (Long bolt rims)	48 Nos.	40 Nos.	32 Nos.	24 Nos.	16 Nos.
	CVT (Constant voltage transformer) 1KVA	1 No.	1 No.	1 No.	1 No.	1 No.
	Drive Thru' kit	1 No.	1 No.	1 No.	1 No.	-
	Chain Block with Ratchet (Rear single axle adjuster)	1 No.	1 No.	1 No.	1 No.	1 No.

Can be **UPGRADED** from Simultaneous alignment of **5 axles to 6 axles** at a time.

## Car Kit (Optional)

	Rim locking pins (for Runflat tyre rims & Fancy disc)	- 16 Nos.
	Car alignment & Vehicle data software	- 1 No.
	Wheel stopper	- 2 Nos.



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