



« Unique "ALIGN+" Software »

Model : FOX 3D Auto BoomX Smart Mobile

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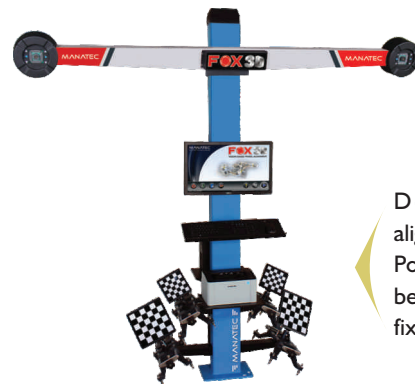


Automatic camera beam movement synchronized with movement of the vehicle on the lift. Can be moved between bays to use in different alignment lifts. Provision for manual height adjustment also available.

Automatic camera beam movement synchronized with movement of the vehicle on the lift by using compensation program. All measurements can be done at floor level and adjustments at any convenient height. Provision for manual height adjustment also available.

Model : FOX 3D MBX

Model : FOX 3D VHX



Designed to perform alignment on Scissor lift, Four Post Lift and Pit. Horizontal beam with camera can be fixed at desired height.

Model : FOX 3D PTX



Designed to perform Alignment on pit.

This model is designed to suit lift based (Two Post Lift, Four Post Lift & Scissor Lift) wheel alignment. The camera beam can be raised/lowered manually to the required height using handle provided in the beam saddle.

Model : **NEO 3D**

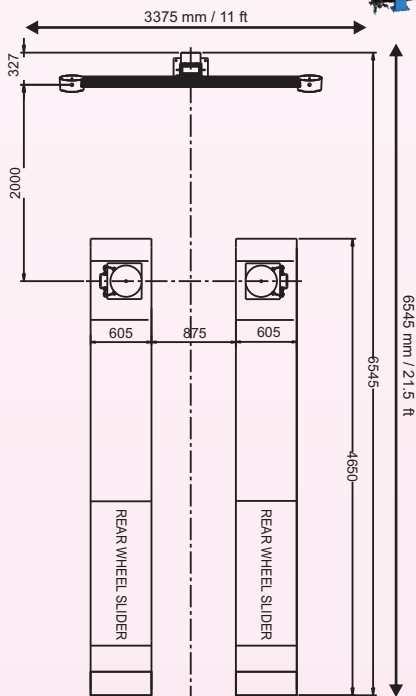


NEO 3D comes with compact camera pods fitted on the floor at a distance of 1125 mm from the centre of Rotary plates. This set up gives free space of 3375x902 mm (32.7 sq.ft)

Indigenous design that eliminates the horizontal beam in traditional 3D aligners and reduces minimum mandatory distance between cameras and targets.

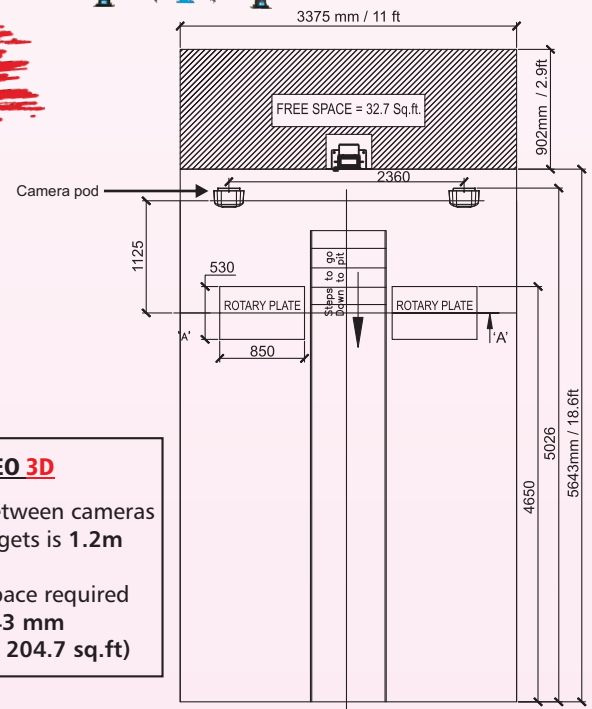
With only 2 cameras it measures all alignment parameters in just 3 mins!

Conventional 3D



SPACE SAVER

NEO 3D

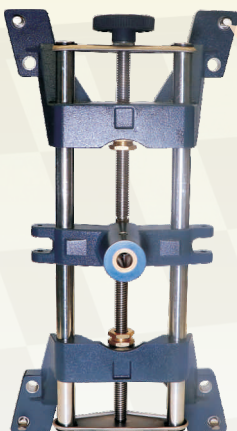


SPACE SAVER

Conventional 3D	NEO 3D
Distance between cameras to front targets is 2m	Distance between cameras to front targets is 1.2m
Total bay space required 3375 x 6545 mm (22 sq.mt / 237 sq.ft)	Total bay space required 3375 x 5643 mm (19 sq.mt / 204.7 sq.ft)

Universal Wheel Bracket

Suitable for 12" - 24" rim diameter



Outer : 16" - 24"

Inner : 12" - 20"



Steel rim with Fancy disc

Alloy rims & Run flat tyre

[SMART CONTROL - Optional]

Tablet



Highly user-friendly Wi-Fi enabled tablet device to display alignment results and to operate the PC from the Alignment bay (Max 10 meters).

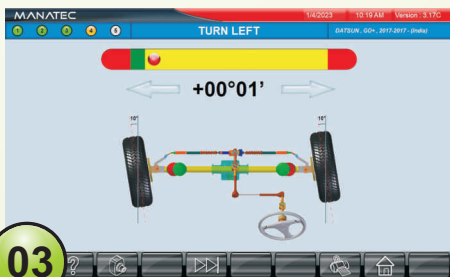
SIMPLE 4 STEP ALIGNMENT : SAVES TIME



01 Pre-Alignment Inspection



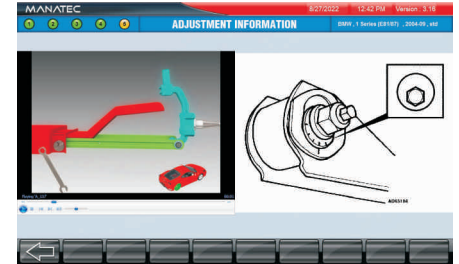
02 Push - Pull Runout



03 Turn Left / Right



04 Alignment Results



Animation guidance
(optional features available in Autodata)



Live readings to adjust

Quick Align Program



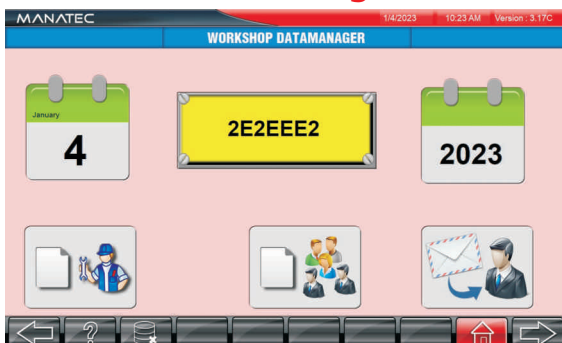
Unique OEM wizard program helps in saving technician time and increases alignment center productivity through customization of the screens himself by selecting and skipping routine inspection screens, attention screens, Caster swing etc.,

Features Menu



Useful features like vehicle information modification, multi users function, vehicle data updates, unit conversion etc. are available.

Data Manager



Data Manager software to retrieve alignment history by month, year and registration number. Useful tool for workshop managers.

Lift level compensation



This feature will overcome the error in readings due to level unevenness during elevation in a scissor or 4-post wheel alignment lift thus ensures Caster, Camber angles are not affected.

Salient Features

- Vision based 3D Imaging technology using 2 High Performance SI (Scientific Image) Cameras
- Simultaneous Front and Rear wheel alignment (4x4)
- Push Pull Runout / Setback / Thrust angle compensation
- Lift level compensation at adjustment level
- Unlimited memory for vehicle specifications
- Option for selection of vehicle specification during alignment
- Power failure data protection
- Multi-lingual program & Voice prompt in English
- Automatic tracking of Left & Right turns for Caster/Kingpin measurements
- Adjustment of Camber in wheel Jacked-up position & Toe curve measurement
- Wheel off Camber adjustment
- Rear Setback & Track width difference
- Toe adjustment in single Tie rod vehicle, Vehicle geometry measurements
- Effortless Toe (Easy Toe) adjustment program / Drag link adjustment
- Camber measurement at Zero Toe
- Toe out on Turns & Lock angle measurements *
- Animated pictorial display of angles during alignment
- Zoom in option for live parameters - like Camber, Caster & Toe in full screen
- Two color bar display for adjustment of all angles to indicate within or out of specification
- Option for Quick Wheel Alignment program
- Data Manager Software for storing & retrieving alignment results
- Customer Address in printout & customer data edit option
- Two wheel Alignment program by fixing only front two target plates









* Not Applicable for NEO 3D

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'
Toe Out on Turns *	± 20° 00'	± 00° 02'
Setback (Front / Rear)	± 25 mm	± 2 mm
Thrust angle	± 05° 00'	± 00° 02'
Runout	± 10° 00'	± 00° 02'
Included angle	± 40° 00'	± 00° 05'
Track width difference	± 300 mm	± 5 mm
Power supply	230V AC, 50Hz / 110V AC, 60Hz	
Power consumption	200W (without Printer)	
Power consumption for Autoboom	400W (without Printer)	
Operating temperature	0° - 50°C	

* Not Applicable for NEO 3D

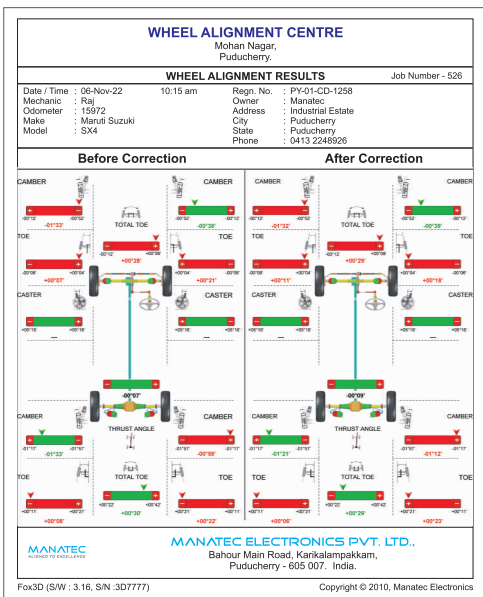
Standard Accessories

 Target Plates - 4 Nos.	 Wheel brackets (12" - 24") - 4 Nos.	 Rotary Plates - (2 ton) - 2 Nos.	 Steering Lock - 1 No.
 Brake Pedal Lock - 1 No.	 Wheel stoppers - 2 Nos.	 PC with LED Monitor, Keyboard & Mouse	 Align+ & Data Manager Software

Optional Accessories

 Printer (Inkjet or Laser)-1 No.	 Long Rear wheel sliders - 2 Nos.	 Wheel Bracket adapters (10"-26") - 16 Nos.	 Rim locking pin - 16 Nos.
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Graphical Printout



Text Printout

WHEEL ALIGNMENT CENTRE
Mohan Nagar, Puducherry.

WHEEL ALIGNMENT RESULTS Job Number - 526

Date / Time : 06-Nov-22 10:15 am Regn. No. : PY-01-CD-1258
 Mechanic : Raj Owner : Manatec
 Odometer : 15972 Address : Industrial Estate
 Make : Maruti Suzuki City : Puducherry
 Model : SX4 State : Puducherry
 Phone : 0413 2248926

DB : India (2014-1)

		Specification			After correction
		Before correction	Min	Target	
CAMBER	Left	+01°30'	+00°02'	+01°02'	+00°04'
	Right	-00°30'	+00°32'	+01°02'	+00°05'
	Max diff. Left/Right	+02°20'	+00°30'	+00°00'	-00°01'
KINGPIN	Left	+12°30'	+12°15'	+12°45'	+13°15'
	Right	+11°00'	+12°15'	+12°45'	+13°00'
	Max diff. Left/Right	+01°30'	+00°30'	+00°00'	+00°15'
INCLUDED ANGLE	Left	+00°00'	---	+13°17'	---
	Right	+00°00'	---	+13°17'	---
	Max diff. Left/Right	+00°00'	---	---	+10°44'
CASTER	Left	+03°30'	+02°29'	+02°59'	+02°30'
	Right	+01°20'	+01°59'	+02°59'	+02°00'
	Max diff. Left/Right	+02°10'	+00°30'	+00°00'	+00°30'
SETBACK	Left	+00°30'	-00°20'	+00°42'	+00°01'
	Right	+00°00'	-00°20'	+01°44'	+00°08'
	Max diff. Left/Right	+00°30'	+01°02'	+01°02'	+00°07'
TOTAL TOE	Left	+00°30'	-00°40'	+03°28'	+00°08'
	Right	-00°20'	---	---	0mm
	Max diff. Left/Right	+00°30'	---	---	0mm
CAMBER	Left	+00°00'	-00°30'	+00°00'	+00°20'
	Right	+00°00'	-00°30'	+00°00'	+00°20'
	Max diff. Left/Right	+00°00'	+00°00'	+00°00'	+00°00'
THRUST ANGLE	Left	-00°30'	-01°02'	+00°00'	+00°01'
	Right	-00°30'	-01°02'	+00°00'	+00°07'
	Max diff. Left/Right	+00°00'	+01°02'	+01°02'	+00°06'
TOTAL TOE	Left	+01°00'	-02°04'	+00°00'	+00°08'
	Right	-00°00'	---	---	0mm
	Max diff. Left/Right	+01°00'	---	---	0mm

MANATEC ELECTRONICS PVT. LTD.
Bahour Main Road, Kankalampakkam, Puducherry - 605 007, India.

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Pre-Alignment Inspection Report

WHEEL ALIGNMENT CENTRE
Mohan Nagar, Puducherry.

WHEEL ALIGNMENT RESULTS Job Number - 526

Date / Time : 06-Nov-22 10:15 am Regn. No. : PY-01-CD-1258
 Mechanic : Raj Owner : Manatec
 Odometer : 15972 Address : Industrial Estate
 Make : Maruti Suzuki City : Puducherry
 Model : SX4 State : Puducherry
 Phone : 0413 2248926

Item	Comments	Pre - Alignment Inspection		
		Check	Service	Replace
Tire Pressure		Yes	No	No
Wheel Bearings		Yes	No	No
Wheel Damper		Yes	No	No
Steering Damper		No	Yes	No
Steering Gear/Coupler		No	Yes	No
Rack And Pinion		No	Yes	No
Ball Joints		No	Yes	No
Spring/Torsion Bar		No	Yes	No
Shock/Strut		No	No	Yes
Idler Arm		No	No	Yes
Pitman Arm		No	No	Yes
Tie Rod Link		No	Yes	Yes
Control Arm/Bushings		No	No	No
Strut Rod/Bushings		No	No	No
Tie Rod Ends		Yes	No	No
Tie Rod Adjusting Sleeve		Yes	No	No
Stabilizer Bushings		Yes	No	No
Spring Shackle Bushings		Yes	No	No
Wheels/Fasteners		No	Yes	No
Spring Shackle Bushings		No	Yes	No
Spring Shackle Bushings		No	No	Yes

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