

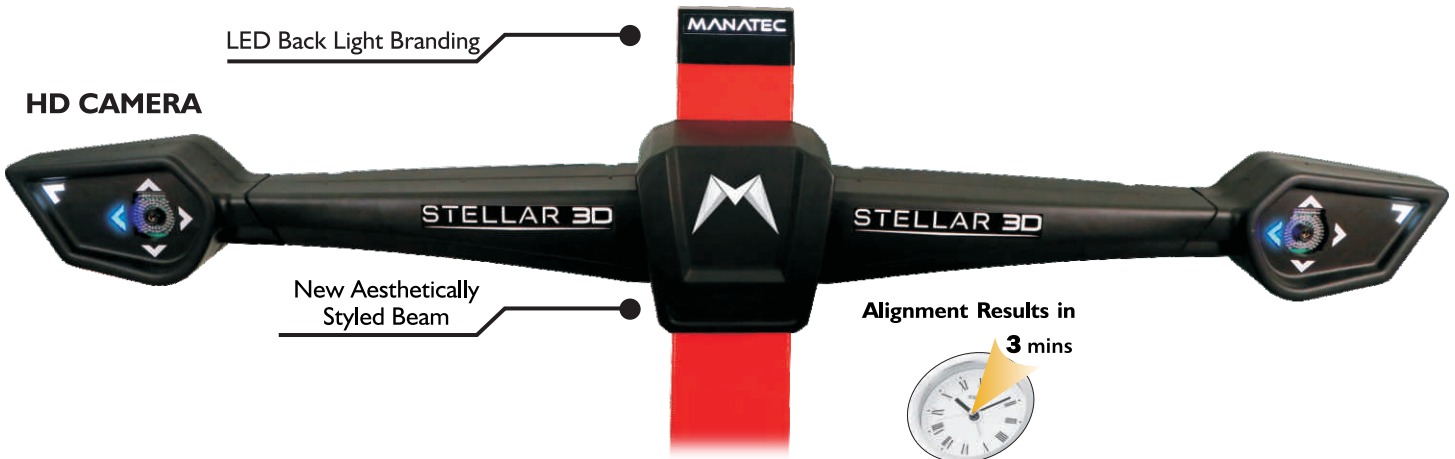
AUTOMOTIVE AFTER MARKET EQUIPMENT

for Cars & LCV Tyre Shop

Exporting to 80⁺ countries

■ *Total Solution*

STELLAR 3D



Model : **STELLAR 3D ABSC**



Auto tracking camera beam with stylish sleek cabinet, Wireless Mouse & Monitor. All measurements can be done at floor level and adjustments at any convenient level.

Model : **STELLAR 3D ABS**



Auto tracking camera beam. All measurements can be done at floor level and adjustments at any convenient level.

Model : **STELLAR 3D VHS**



Variable height camera beam. Designed to suit wheel alignment in Lift & Pit

SMART SENSOR TECHNOLOGY

This technology eliminates alignment errors arising due to uneven floor level. No calibration required during installation.



Powered by Industry 4.0 - Alignment centers can now optimise wheel alignment data thru effective connectivity using internet for centralised operation.

STELLAR 3D Variants

- Autoboom Mobile / Autoboom
- Autoboom with Cabinet
- Variable Height



« Unique "ALIGN+" Software »

Model : FOX 3D Auto BoomX Smart Mobile



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.

Model : FOX 3D Auto BoomX



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



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 : 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.

NEO 3D

THE SPACE SAVER

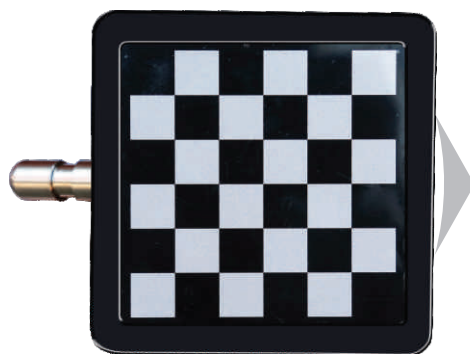


NEO 3D comes with compact camera pods fitted on the floor at a distance of 1125 mm from the centre of Rotary plates. This set up gives free space of 3375x902 mm (32.7 sq.ft)

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!

MICRO TARGETS



- No electronics on wheels
- Less maintenance
- Free from Battery charging & discharging issues
- Safe & easy to handle

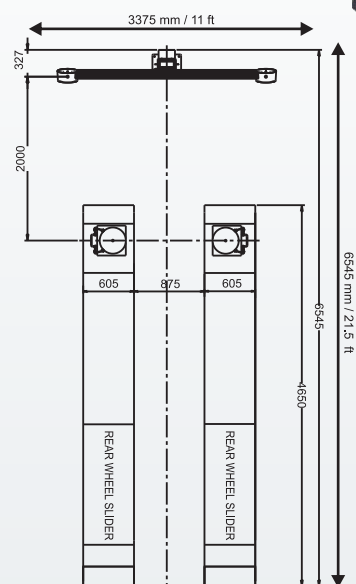


½ Kg

World's smallest target plates for front wheels.

- Extremely light & small
- 2 x size of a credit card
- Weighs only ½ Kg
- 70% lighter compared to other designs

Conventional 3D



SPACE SAVER

SPACE SAVER

Conventional 3D

Distance between cameras to front targets is 2m

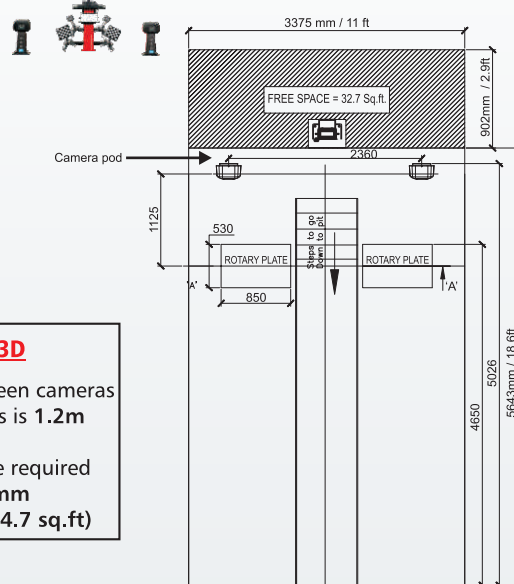
Total bay space required
3375 x 6545 mm
(22 sq.mt / 237 sq.ft)

NEO 3D

Distance between cameras to front targets is 1.2m

Total bay space required
3375 x 5643 mm
(19 sq.mt / 204.7 sq.ft)

NEO 3D



Quick Align Program



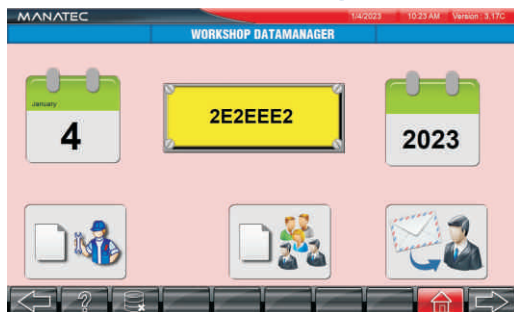
Unique OEM wizard program helps in saving technician time and increases alignment center productivity through customization of the screens himself by selecting and skipping routine inspection screens, attention screens, Caster swing etc.,

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

Models : **VL-65 LX**
VL-65 LX Premium
VL-65 LX Premium+



» Videographic display «

Models : **DL-65 Premium**
DL-65 Premium+



» Elegant Digital display «

Models : **DL-65 C**
DL-65 C+



- Suitable for Car and LCV wheels
- Two modes of measurement - Normal & Fine
- Seven modes of Alloy wheel functions
- Graphical user interface for live balancing
- Option for "grams" / "ounces" unit conversion
- Automatic distance input (Not available in DL-65 C)
- Rim parameter value entry through wheel rotation
- Universal AC input socket
- Self calibration (when calibration error is displayed)
- Self checking on-line error display
- Adjustable unbalance threshold (weight cut off)
- Mid-centering device with Quick change lock nut to ensure fast mounting & removal of wheels
- Mechanical brake for weight addition and wheel mounting (Not available in DL-65 C)
- Automatically starts when wheel guard is closed
- High resolution (HDMI input) & LED Monitor / LED digital display
- *Wheel seating cones for LCV are supplied as optional*

Additional features for Premium models

- Automatic Rim diameter and Rim width input
- Split weight program (spokes program)
- Optimization program
- Automatic Rim type detection

Additional features for Premium+ models

- Laser line indication to indicate weight fixing position (for Sticker weights)
- Torch light for illumination of the Inner plane during weight fixing



Laser line indication



Torch light indication

Technical Specifications

Maximum wheel weight	65 kg
Maximum wheel diameter	39" (990 mm)
Maximum wheel width	21" (533 mm)
Rim diameter	10" to 24" (254 mm to 610 mm)
Rim width	1.5" to 20" (38 mm to 508 mm)
Rim distance	
By distance measuring rod (for C & C+ models)	4 mm to 250 mm
By distance measuring rod (for other models)	4 mm to 300 mm
By keypad entry	4 mm to 550 mm
Resolution	
Fine mode	1 gm
Normal mode	5 gm
Maximum unbalance measurement	300 gm
Accuracy	1 gm
Position accuracy	± 1°
Balancing speed	175 RPM
Power supply	230V AC ±10%, Single Phase, 50 Hz
Power	0.35 HP

Model :

Tyremate 200 TL
Tyremate 200 TL - RFT



» Fully Automatic «
Run Flat Tyre

- Suitable for Car and LCV tyres
- Capable of handling stiff, wide and low-profile tyres using RFT helper arm
- Pneumatically operated tilting type vertical column
- Pneumatically operated twin cylinders for firm clamping
- Individual pedal for vertical column tilting
- Alloy wheel plastic protector for jaws

Model :

Tyremate 200 TL 26
Tyremate 200 TL 26 - RFT



» Fully Automatic «
Tubeless

- Suitable for Car and LCV tyres
- Pneumatically operated tilting type vertical column
- Pneumatically operated twin cylinders for firm clamping
- Individual pedal for vertical column tilting
- Four Jaw self centering chuck
- Alloy wheel plastic protector for jaws

Model :

TC - XL - 40
TC - XL - 40+



» Semi Automatic «

- Suitable for Car and LCV tyres
- Pneumatically operated twin cylinders for firm clamping
- Four Jaw self centering chuck
- Horizontal moving arm
- Alloy wheel plastic protector for jaws

Technical Specification

Technical Specification	Tyremate 200 TL Tyremate 200 TL - RFT	Tyremate 200 TL 26 Tyremate 200 TL 26 - RFT	TC - XL - 40	TC - XL - 40+
Rim clamping from inside	12" – 24" (305 – 610 mm)	14" – 26" (356 – 660 mm)	12" – 21" (305 – 533 mm)	14" – 26" (356 – 660 mm)
Rim clamping from outside	10" – 21" (254 – 533 mm)	12" – 24" (305 – 610 mm)	10" – 18" (254 – 457 mm)	12" – 24" (305 – 610 mm)
Max. wheel diameter	38" (965 mm)	43" (1092 mm)	37" (940 mm)	41" (1041 mm)
Max. wheel width	3" – 12" (76 – 305 mm)	15" (381 mm)	3" – 12" (76 – 305 mm)	16" (406 mm)
Operating pressure	8 – 10 bar	6 – 8 bar	6 – 8 bar	6 – 8 bar
Bead breaker force	2500 kg	2500 kg	2500 kg	2500 kg
Power supply	220V AC, Single Phase, 50 Hz	220V AC, Single Phase, 50 Hz	220V AC, Single Phase, 50 Hz	220V AC, Single Phase, 50 Hz
Power	1.5 HP	1.5 HP	1.0 HP	1.5 HP

Standard Accessories



Inflation gun



Tyre lever



Jaw cover



FRL unit

Optional Accessories



Motorcycle
adapter



Plastic
mounting head



Motorcycle
mounting head

Nitrogen Filling Station

Model : **NFS 308 A/MO-E**



Salient Features

- Suitable for 2 Wheelers, Cars & LCVs
- Compact design with 50L NFS tank inside
- Provided with heavy caster wheels for portability
- Automatic Nitrogen generator shut-off after Nitrogen generation
- Two sets of large capacity CMS filter
- Automatic alarm for any error and work finish
- Record of last time set-data
- Audio and visual indication during nitrogen generation
- Accumulated working hours display for the filter replacement
- Large backlight LED for indicating pressure & time

Technical Specification

Nitrogen generated	PSA technology
Nitrogen purity	95 - 99%
Air Inlet pressure	8 -10 Kg/cm ² , 115 -145 PSI
Air compressor required	5.5-7.5 kW, 10 Kg/cm ² , Exhaust volume, 0.6-1.5 M ³ /min
Nitrogen outlet pressure	1 - 6 Kg/cm ²
N ₂ output capacity	30 - 50 LPM 2.1 - 2.5 CFM
N ₂ Tank capacity	50 ltrs. In-built
Measure unit	Bar & PSI
Operating temperature	0 - 50°C, 0 - 122°F
Power supply	220V AC, Single Phase, 50 Hz
Power	60 W

Air Compressor

Model : **AC**



<< Reciprocating type
air cooled Compressor >>

Salient Features

- Cast iron block
- Industrial duty rating
- Slow running speed
- Pressure switch with unloader
- Totally enclosed belt guard
- Inter stage pressure relief valve
- Air receiver
- Testing as per IS 5456 standards
- Leak proof fittings

Benefits

- Outperforms and outlasts aluminum block compressor
- No stand-by compressor required
- Less wear & tear
- Easy starting and increased motor life
- Full protection against accidents
- Provides extra safety
- Totally safe, as per international standards
- Guaranteed output
- No compressed air leakage

Technical Specification

Motor Power (HP)	2	3	5	7.5
Compressor (RPM)	720	1050	925	1050
Maximum pressure (Bar)	10	12	12	12
Piston displacement (LPM/CFM)	283 / 10	397 / 14	501 / 17.7	700 / 24.8
Free air delivery (LPM/CFM)	182 / 6.9	167 / 5.9	410 / 14.5	580 / 20.7
Air receiver (LTR)	200	250	250	300
No of cylinders	2	2	2	2
Power supply	220V AC, Single Phase, 50 Hz / 415V AC, 3 Phase, 50 Hz			

Single Phase applicable for 2 & 3 HP only.

Petrol Gas Analyser



Model : **Eco Gas 200 I**
Eco Gas 200 IBA



- ⚡ **DC Operation**
- 💻 **PC Interface**
- ⚠ **Leak Check**
- ⚡ **Petrol / CNG / LPG Selection**

PC Interface (Optional)



Test Report (PC Printout)

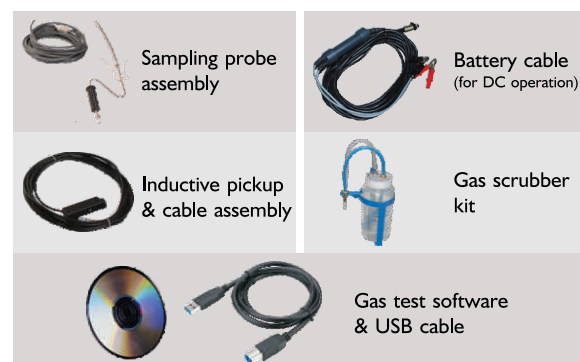
SI No. : _____		FORM EMISSION UNDER CONTROL TESTING STATION (Part 1) (H/C)	
TRANSPORT DEPARTMENT SEAL		High Tech Wheel Care 101 Far Road, Madhavaram, Pondicherry - 605 004 Ph : +91 431 228900	
Registering Authority / License No. : 3630			
EMISSION TEST CERTIFICATE			
Job Id : 20036	Vehicle Make : Honda	Fuel : Petrol	
Serial No. : 820623	Vehicle Model : Honda City	Catalyst : NO	
Test Name : Benchmark	Vehicle Type : Four Wheeler	Test Date : 16/07/2014	
Vehicle No. : TN02JL-405	Engine Type : 4 Stroke	Test Time : 11:42:08 AM	
Km Run : 3000	Engine No. : 34545021	Chassis No. : 3545144	
Regn. Date : 16/06/2009	Tuned : NO	Blow Test II : Yes	
Test Result : IDLING		Photo of Vehicle	
Parameter	Resolution	Unit	Value
CO (ppm)	0.01%	ppm	11.42
CO ₂ (%)	0.1%	%	14.52
HC (ppm)	1 PPM	ppm	1.00
O ₂ (%)	0.01%	%	20.95
NOx (ppm)	1 PPM	ppm	1.00
AFR	0.01%		14.7
Lambda	0.001		1.00
Engine RPM	10 RPM	RPM	800
Engine oil temperature	1°C	°C	100
Operating temperature		°C	35
Measuring gas intake		litres / minute	3.0
Response time		Sec.	15
Warm-up time @ 25°C & above		minutes	3
Power supply			12V DC ± 2V battery
			100-265V AC, Single Phase, 50-60 Hz
Power			25W
RESULT PASS Thank you for keeping your Vehicle clean and Environment Green			
Certified that this Vehicle's CO Emission level conforms to the standards prescribed under Rule 112(i) of C.V.R. Rules 1989.			
Seal of Testing Station		Name of Testing Person	
		Authorized Signature	
Thank you for using MANATEC Gas Analyser			

Salient Features

- Petrol / CNG / LPG selection
- 7 Segment LED display
- Non dispersive Infrared (NDIR) technology
- Automatic condensate discharge
- Automatic zero calibration
- Digital span calibration
- Easy update of software in the field through USB port
- DC operation facility available for "mobile road tests" using vehicle battery
- Display of Lambda / AFR / PEF
- Separate Indication for battery Low / High voltage
- Electronic leak check facility
- Gas scrubber for cleaning of impure particles
- Conforms to ISO 3930
- NOx measurement (**Optional**)

Eco Gas 200 I	Eco Gas 200 IBA
Inductive pickup based RPM measurement	Inductive pickup, Battery & Accelerometer based RPM measurements

Standard Accessories



Optional Accessories



* To be ordered along with machine. Field implementation not possible.

Technical Specification

Measurement Parameters	Range	Resolution
CO (Carbon Monoxide)	0 - 15%	0.01%
CO ₂ (Carbon Dioxide)	0 - 19.9%	0.1%
HC (Hydro Carbon)	0 - 20000 PPM	1 PPM
O ₂ (Oxygen)	0 - 25%	0.01%
NOx (Oxides of Nitrogen)	0 - 5000 PPM	1 PPM
AFR	0 - 30%	0.01%
Lambda	0.20 - 2.00	0.001
Engine RPM (Battery based)	400 - 9990 RPM	10 RPM
Engine oil temperature	0 - 150°C	1°C
Operating temperature	+ 5°C to + 45° C	
Measuring gas intake	3 litres / minute	
Response time	< 15 Sec. (for sample probe length of 3m)	
Warm-up time @ 25°C & above	< 3 minutes	
Power supply	12V DC ± 2V battery	
	100-265V AC, Single Phase, 50-60 Hz	
Power	25W	

ENGINE RPM METER (Optional) for Eco Gas 200 I



Salient Features :

- Accelerometer based RPM measurement
- Compatible for Diesel & Petrol vehicles
- The Engine RPM meter allows easy measurement of RPM
- Use of multiple acquisition systems

Technical Specification :

- RPM measurement range : **400 - 9990 RPM**
- Resolution : **10 RPM**
- Display : **Four digit LED display**

Diesel Smoke Meter



Model : Eco Smoke 100 A
Eco Smoke 100 B
Eco Smoke 100 BA



- ⚡ **DC Operation**
- ⚡ **PC Interface**
- ⚡ **Free Acceleration Test**

PC Interface (Optional)

Test Report (PC Printout)



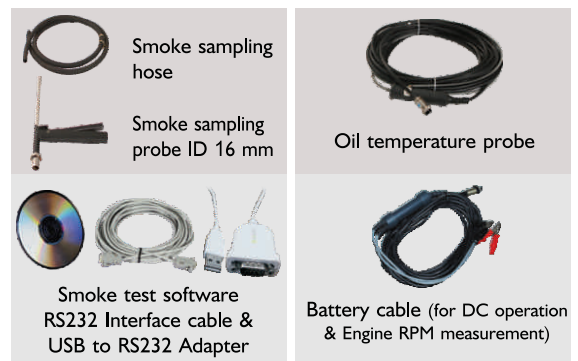
FORM (EMISSION UNDER CONTROL TESTING STATION)	
<div style="display: flex; justify-content: space-between;"> <div> <p>SI No. : TRANSPORT DEPARTMENT SEAL</p> </div> <div> <p>High Tech Wheel Care 100 Feet Road, Madhavapur, Pondicherry - 605 004. Ph : +91 431 2248876</p> </div> </div> <p>Registering Authority / License No. : 3630</p>	
<p>EMISSION TEST CERTIFICATE</p>	
Job Id : 28453	Make : Mahindra
Serial No. : 4896	Model : Logan
Test Name : AntiSmear	Vehicle Type : Four Wheeler
Vehicle No. : TN-60-14-2651	Test Date : 06/08/2014
Test Run : 00733	Test Time : 03:27:23 AM
<p>Vehicle Target Data</p>	
Min RPM : 700	Max RPM : 4000
<p>Oil Temperature : 77°C</p>	
<p>Test Data</p>	
5 Sec. Opacity & Value	Min. Max. Test
750 1100 RPM	870 973
1 33.5 1.01 750 2300 1.1 074	
2 33.5 1.02 750 2400 1.3 074	
3 33.4 1.01 750 2500 1.4 070	
4 33.5 1.01 750 2600 2.4 075	
<p>Avg. 33.5 1.01</p>	
<p>RESULT PASS ✔ Thank you for keeping your vehicle clean and Environment Green</p>	
<p><small>Certified that this vehicle's Smoke Emission level conforms to the standard prescribed under Rule 112(2) of CMV Rules 1989.</small></p>	
<p><small>Permissible limit of K-Value is 2.45 Unit (Opacity : 40%)</small></p>	
Seal of Testing Station	Name of Testing Person
<p>Thank you for using MANATEC Diesel smoke meter</p>	

Salient Features

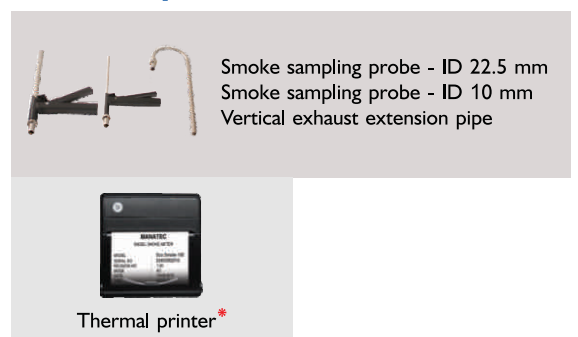
- Measures smoke opacity of diesel vehicles in % opacity and K value
- Measurement principle : Partial flow, optics based on folded geometry
- Suitable for free acceleration test
- Engine oil temperature measurement
- Operates on 230V AC (or) 12V DC power supply
- Portable, Compact & light weight design, suitable for "Road tests" using vehicle battery
- Low & High voltage indication for battery operation
- Automatic Zero and Span calibration
- Automatic Pressure regulation and moisture separation
- Handheld, Menu driven LCD remote control unit
- Compatible with VAHAN Online API software
- RS232C serial port for PC interface
- Conforms to IS : 14553 - derived from ISO 11614 : 1999

Ecosmoke 100 A	Ecosmoke 100 B	Ecosmoke 100 BA
Accelerometer based RPM measurement	Battery based RPM measurement	Battery & Accelerometer based RPM measurements

Standard Accessories



Optional Accessories



* To be ordered along with machine. Field implementation not possible.

Technical Specification

Measurement Parameters	Range	Resolution
Opacity	0 – 99.9 %	0.10 %
K-value	0 – 9.99 m ⁻¹	0.01 m ⁻¹
Linearity	± 0.1 m ⁻¹	
Repeatability	± 0.1 m ⁻¹	
Zero & Span drift	± 0.1 m ⁻¹	
Response time – Physical	< 0.4 seconds	
Response time – Electrical	< 1 millisecond	
Warm up time @ 25°C and above	< 7 minutes	
Engine RPM (Battery based)	400 - 9990 RPM	10 RPM
Oil Temperature	0 - 150° C	1° C
Operating Temperature	+ 5°C to + 50°C	
Smoke measuring cell length	215 mm (430 mm folded length)	
Power supply	12V DC ± 2V battery 100-265V AC, Single Phase, 50-60 Hz	
Power	300W AC / 100W DC (without heater)	

ENGINE RPM METER (Optional) for Ecosmoke 100 B



Salient Features :

- Accelerometer based RPM measurement
- Compatible for Diesel & Petrol vehicles
- The Engine RPM meter allows easy measurement of RPM
- Use of multiple acquisition systems

Technical Specification :

- RPM measurement range : 400 - 9990 RPM
- Resolution : 10 RPM
- Display : Four digit LED display

Wheel Alignment Scissor Lift

Model : **WASL D40** 4.0 Ton

>> **Electro Hydraulic** <<



Double Scissor Lift

Salient Features

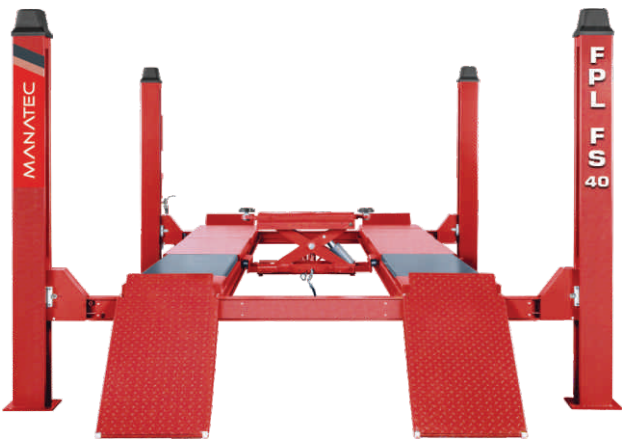
- Longer platform to perform Push Pull Runout
- Double-level platform scissor lift
- Double safety device : Hydraulic lock & Mechanical dual-gear safety-claw lock
- Oil-free nylon blocks for smooth scissor movement
- Pneumatic double-teeth self-locking system & anti-explosive PU hose
- Integrated base for easy '0' level adjustment for better accuracy of wheel alignment
- Limit switch for top safety height
- Safety Alarm during the final one feet down-movement
- Platform level sensor for monitoring uneven movement
- Ramps for on-ground Installations (**Optional**)

Technical Specification

Main machine Lifting capacity	4.0 Ton
Submachine Lifting capacity	2.0 Ton
Main machine max. Lifting height	1850 mm
Submachine Lifting height	450 mm
Main machine platform length	4500 mm
Submachine length	1400mm
Main machine platform width	620 mm
Overall length	5000 mm
Overall width	2040 mm
Lifting speed	<55 seconds
Dropping speed	<55 seconds
Power supply	380V AC, 3 Phase, 50 Hz
Power	2.2 KW

Four Post Lift

Model : **FPL FS40** 4.5 Ton



>> **Electro Hydraulic** <<

Salient Features

- Driven by hydraulic cylinder and wire-ropes for stable lifting & lowering
- Adjustable lock position at any level
- Wheel free jack 2 Ton capacity
- Imported electric components
- Adjustable platform for wider wheel track vehicles
- Ramps inbuilt with platform

Technical Specification

Lifting capacity	4.5 Ton
Max lifting height	1750 mm
Min lifting height	250 mm
Platform length	4650 mm
Platform width	530 mm
Lifting speed	<45 seconds
Dropping speed	<30 seconds
Power supply	380V AC, 3 Phase, 50 Hz
Power	2.2 KW

Hydraulic Washing Lift

Model : **WL 4T**



Model : **WL 4T SA**



Spider Arm

Salient Features

- Hydro pneumatic
- Standard model at 4 ton capacity
- Separate model with Spider Arm design for 4 ton capacity
- Plunger finish - Hard chrome plated to 20 microns
- Heavy duty rigid ramps accommodate a wide range of vehicles of varying size and type

Technical Specification

Specification	WL 4T	WL 4T SA
Capacity	4 Ton	4 Ton
No. of posts	1 No.	1 No.
Plunger diameter	270 mm	270 mm
Operating pressure	9 to 12 Kg/cm ²	9 to 12 Kg/cm ²
Lifting height	1500 mm	1500 mm
Ramp length	4500 mm	—
Spider arm	—	Inclusive
Tyre rest platform	<i>Optional</i>	—
Oil fill capacity	150 ltrs.	150 ltrs.

High Pressure Car Washer

Model : **HPCW 120 / HPCW 120M**



Salient Features

- Triple plunger pump
- Foam Gun with male coupler
- High Pressure heavy duty hose 3/8"-10m
- Suction hose -3m
- Pressure gauge
- Electric motor (Branded)
- *Movable front wheels (for HPCW 120M)*
- *Comes with ANNOVI REVERBERI - Italian pump (for HPCW 120A)*

Technical Specification

Type	Coupled
Plunger	3 No.
Speed(RPM)	1450
Crankcase oil capacity	1250 ml
Hose and Gun	1 No. each
Working pressure	120 Kg/cm ²
Output (LPM)	11
Hose length	10 mtrs.
Power supply	230V AC, Single Phase, 50 Hz 380V AC, 3 Phase, 50 Hz
Power	3 HP

A/C Recycling Equipment



Models : **i COOL 100 G**
i COOL Pro 100 G
i COOL Pro 100 DG



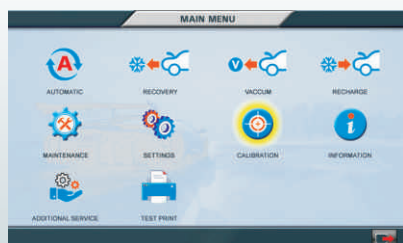
- 7" TFT Graphical LCD display with Touch screen
- Suitable for Cars & LCV cabins
- Fully Automatic machine (Recovery, Recycling, Vacuum, Leak test & Recharging, Oil drain & integration)
- Option to perform above functions individually
- Dedicated gauge for Inlet pressure
- Filter in recovery line to eliminate humidity & acidity
- Manual air purge from refrigerant tank
(for i Cool 100 G & i Cool Pro 100 DG models)
- Electronically controlled Automatic air purge system from refrigerant tank (for i Cool Pro 100 G model)
- Tank pressure digital display (for i Cool Pro 100 G model)
- Spark free Compressor and Vacuum pump
(for i Cool Pro 100 G model)
- Automatic Oil injection PAG oil with separate electronic scales
- Automatic UV Dye injection (for i Cool Pro 100 G model)
- Automatic High pressure protection for Compressor
- Audible indication / alarm
- Caution & error message / prompt
- Display of Pressure in "psi" / "bar" / "kPa" & Weight in "kg" / "lbs"
- Self diagnosis for checking the fitness of the machine
- Vehicle data base (up to 10000 vehicles)
- Vehicle database with User entry provision
- Software update through USB interface
- Vehicle data update through USB interface
- Shock proof protection for load cells
- Electronic scale lock protection

Recharge your Car Air Conditioning with Innovative & **Fully Automatic iCOOL**

Additional features for i Cool Pro 100 DG / i Cool Pro 100 G models

- Automatic Oil injection POE oils with separate electronic scales
- Electric / Hybrid vehicles compatibility
- Hose purge system with separate flush input connectors

Touch Display



Printout

DATE	:	30/06/2019
TIME	:	12:47
Veh. MAKE	:	
Veh. MODEL	:	
RECOVERY SUMMARY		
R134a	:	0 g
RECHARGE SUMMARY		
R134a	:	442 g
Oil	:	10 ml

HP Gauge



LP Gauge



Class 1.0

Technical Specification

Specification	i Cool 100 G i Cool Pro 100 DG	i Cool Pro 100 G
Type of refrigerant	R134a	R1234yf (or) R134a (Pre defined)
Service procedure	Automatic / Manual	
Display	7" TFT Graphical LCD display with Touch screen	
Vacuum Pump	4.5 CFM, ½ hp, 128 Lit/Min. (for 230V AC) 5.0 CFM, ¾ hp, 141 Lit/Min. (for 110V AC)	
Compressor	9.1 cc (for 230V AC) 11.4 cc (for 110V AC)	12 cc (for 230V AC) 11.4 cc (for 110V AC)
Refrigerant bottle capacity	12 kgs*	
Power Supply	110 / 230V AC, ±10%, 1φ, 60/50Hz, +N +PE	
Power consumption	900 W	

* Indicates full capacity. Operating capacity - 8 kgs

Standard Accessories

HP Hose (3 mtrs)	LP Hose (3 mtrs)
HP Coupler	LP Coupler
HP Connector with depressor	Funnel with hose

Vacuum Cleaner

Model : **VC 70**



Technical Specification

Application	Wet & Dry
Motor	2 Nos.
Water lift	2300 mm H ₂ O
Air flow	270 m ³ /h
Tank capacity	70 Ltrs.
Motor power supply	1500 W (each)
Power supply	230V AC, Single Phase, 50 Hz

Standard Accessories

- Suction hose
- Short connector
- Long connector
- Telescopic Pipe
- Floor Nozzle
- Crevice tool
- Dust brush
- Handle

Jib Crane

Model : **JC 2.0T**



Salient Features

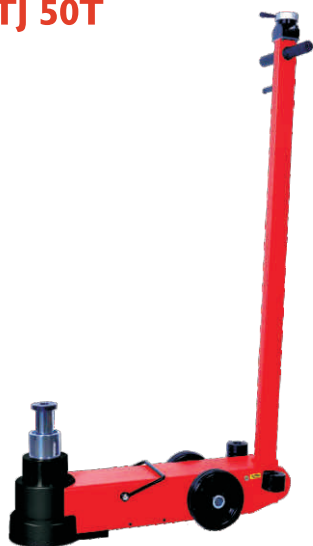
- Heavy-duty welded construction with rugged reinforced tubular steel
- Boom positions for optimum reach at required capacity
- Metered control release valve for precise lowering control
- Foldable for easy storage

Technical Specification

Capacity	0.5 - 2.0 Ton
Lifting height	2380 mm
Height of crane	1450 mm
Length of crane	1550 mm

Hydro Pneumatic Trolley Jack

Model : **HPTJ 50T**



Salient Features

- Used in heavy vehicle workshops for Suspension check, wheel removal, etc
- Used on Floor
- Variable load handling from 10 - 50T
- Easy to operate - Just press lever
- Works on Pneumatics & Hydraulics principle

Technical Specification

Maximum load capacity	50 Ton
Variable load	50/25/10 Tonnes
Maximum height	352 mm
Minimum height	160 mm
Adaptors	75 mm & 45 mm

Impact Wrench



Salient Features

- ½" Impact Wrench to remove wheel nut in PCVs & SUVs
- Capacity bolt size - 19 mm
- Working torque : 525 Nm
- Free speed 7400 RPM

Tyre Pressure Monitoring System

Model : **TC13E1-4** (4 sensors)
TC13E1-5 (5 sensors)



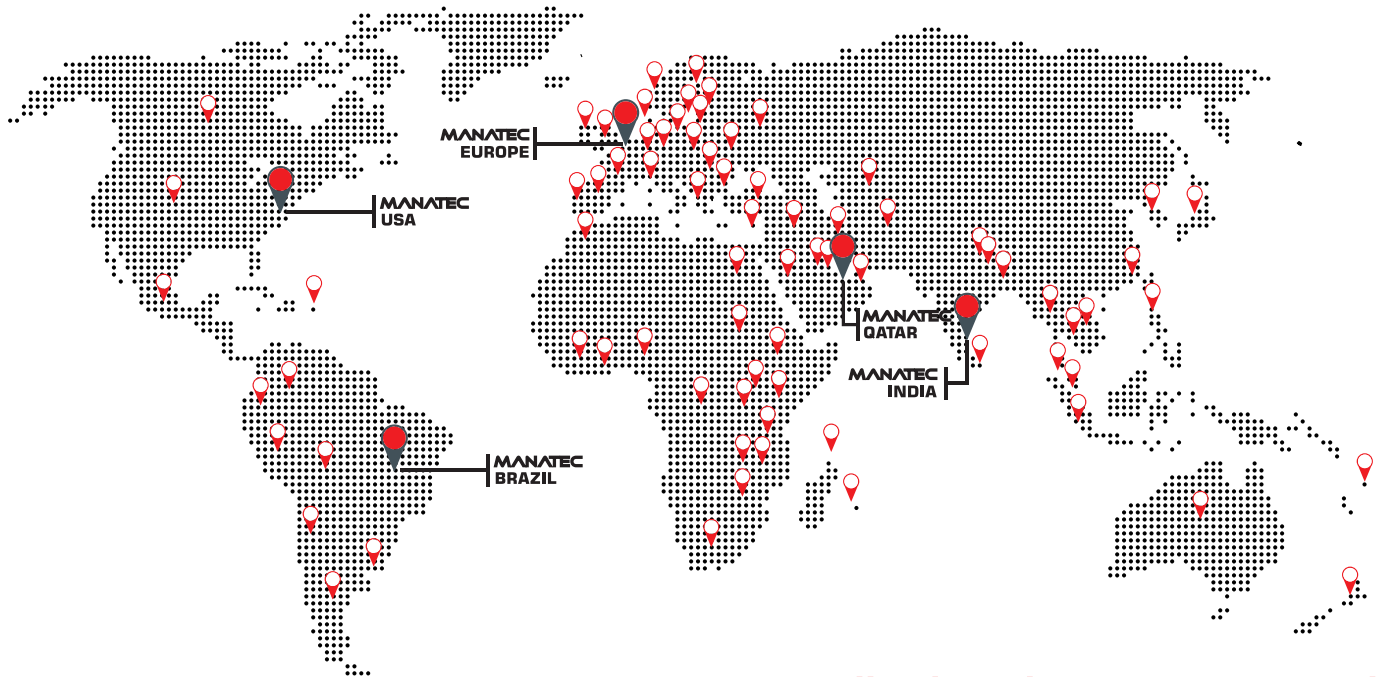
- Solar power charging technology
- Backup USB 3.0 charging option available
- High-definition colorful LCD large display
- Simultaneous display of pressure and temperature of 5 tyres
- Tyre pressure / temperature alert under abnormal conditions
- Automatic power saving mode during parking
- AIS 154 Compliant

Model : **TCE3E1-M4** (4 sensors)
TCE3E1-M5 (5 sensors)



- Compatible for Android smart phone
- Wireless BLUETOOTH technology
- Continuous background monitoring of tyre pressure and temperature
- Connects automatically to BLUETOOTH phones
- Vision friendly dark theme suitable for night driving
- Bluetooth ID and Tyre ID configuration using QR code
- MIS based on select period

Global Presence



ACCOLADES

- Innovation Award in Automechanika Germany - 2018
- Winner of MSME Award for Quality Products - for the year 2015
- Winner of CII Innovation Award - for the year 2015
- one of the Top 25 most innovative companies in India
- Winner of EEPC Award for 17 Consecutive years Since 2005
- TRiLA Company of year Award in 2015 & 17
- Best Tyre service equipment company for consecutive 3 years
- Winner of Kaizen Award for 11 consecutive years since 2013
- Products approved by all leading OEM & Tyre corporates

Asia's first designer of Wheel Aligner & Manufacturer of Garage Equipment



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