



**MANATEC**  
ALIGNED TO EXCELLENCE

# **AUTOMOTIVE AFTER MARKET EQUIPMENT**

*for Cars & LCV Workshop*

 *Total Solution*



Exporting to 75<sup>+</sup> countries





# COMPANY PROFILE

**Manatec** is an ISO 9001 : 2015 certified organisation, located in Puducherry, on the East Coast of South India. Manatec, established in 1987, started with designing and manufacturing of Industrial Shaft Alignment systems and diversified to the Automotive Garage Equipment design and manufacturing, since 1991.



The global automotive industry is ever growing, with constant innovations in technology resulting in a surge of new automobile models launched everyday. It poses equal challenge in after market maintenance and servicing needs. Manatec's Garage Equipment Division works with the objective of meeting the above challenge by designing high quality service station equipment in-line with the emerging trends in the industry. All garage equipment are designed & developed indigenously, and Manatec's in-house R&D division is recognised by the Government of India.

The manufacturing facility incorporates Electronics Hardware and Software processing departments, Tool Room, Machine shop, Quality Assurance & separate Production bays for every product with world class infrastructure.

For the workforce in Manatec, Quality and Technology is not just a requirement, but it is a state of mind!

## AWARDS



Innovation Award  
in Automechanika Germany - 2018



MSME Award  
for Quality Products - 2015



CII Industrial Innovation Award - 2015



Winner of EEPIC Award  
for 14 Consecutive years Since 2005



Best R&D Efforts Award  
from Prof. Murali Manohar Joshi - 1998-99



Award for Excellence  
in R&D (Electronics) - 1996



National Award for Best Entrepreneur  
and Quality Products in SSI Sector - 1993



Best Productivity Performance  
Award - 1990-91

## OUR PRESTIGIOUS CORPORATE CUSTOMERS





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## FOX 3D VISION BASED WHEEL ALIGNMENT

« Unique "ALIGN+" Software »

### 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 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.

### 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 - DTX



Dual Tower model consists 2 vertical columns fitted with cameras. Ideal for space constraint workshops giving access for free movement in shop floor without any obstruction. No horizontal beam.

## Unique "ALIGN+" Software

## Model : FOX 3D PTX



Designed to perform Alignment on pit.

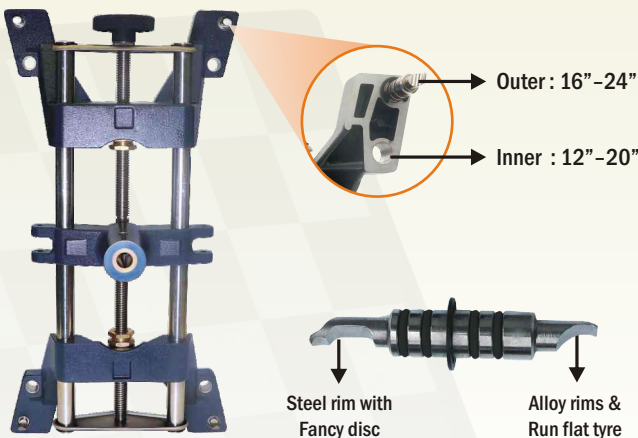
## 10 Mega Pixel Camera

Data acquisition using high resolution scientific imaging cameras



## Universal Wheel Bracket

Suitable for 12" - 24" rim diameter



## [ 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).



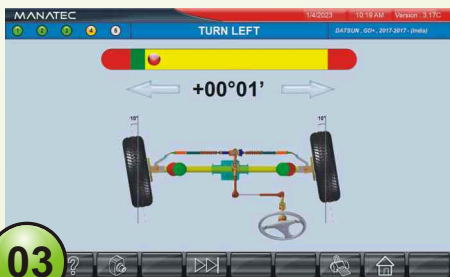
## SIMPLE 4 STEP ALIGNMENT : SAVES TIME



**01** Pre-Alignment Inspection



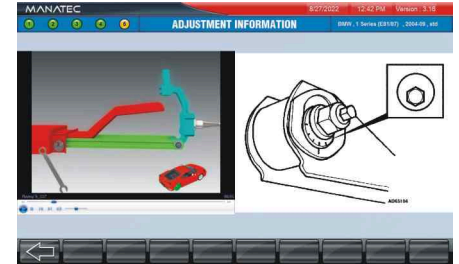
**02** Push - Pull Runout



**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
- 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
- Two color bar display for adjustment of all angles
- 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

## 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	

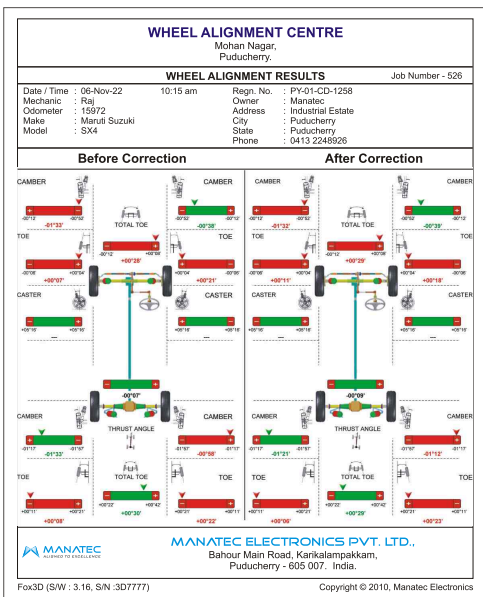
## Standard Accessories

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, Pudukcherry.

**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 : Pudukcherry  
 Model : SX4 State : Pudukcherry  
 Phone : 0413 2248926

DB : India (2014-1)	Before correction	Specification			After correction
		Min	Target	Max	
<b>FRONT WHEEL ALIGNMENT RESULTS</b>					
CAMBER	Left	+01°30'	+00°02'	+01°02'	+00°04'
	Right	-00°30'	+00°02'	+01°02'	+00°05'
	Max diff. Left/Right	+02°20'	+00°30'	+13°15'	-00°01'
KINGPIN	Left	+12°30'	+12°45'	+13°15'	+12°45'
	Right	+11°30'	+12°45'	+13°15'	+13°00'
	Max diff. Left/Right	+01°30'	+00°30'	+00°15'	+00°15'
INCLUDED ANGLE	Left	+00°00'	+13°17'	---	+10°44'
	Right	+00°00'	+13°17'	---	+10°38'
	Max diff. Left/Right	+00°00'	---	---	+00°06'
CASTER	Left	+03°30'	+02°29'	+02°59'	+02°30'
	Right	+01°20'	+02°29'	+02°59'	+02°00'
	Max diff. Left/Right	+02°10'	+00°30'	---	+00°30'
SETBACK	Left	0mm	---	---	0mm
	Right	0mm	---	---	0mm
	Max diff. Left/Right	0mm	---	---	0mm
TOTAL TOE	Left	+00°30'	+00°42'	+01°44'	+00°01'
	Right	+00°00'	+00°42'	+01°44'	+00°08'
	Max diff. Left/Right	+00°30'	+01°02'	+01°44'	+00°07'
REAR WHEEL ALIGNMENT RESULTS	Left	+00°00'	+00°00'	+00°30'	+00°20'
	Right	+00°00'	+00°00'	+00°30'	+00°20'
	Max diff. Left/Right	+00°00'	+00°00'	+00°00'	+00°00'
THRUST ANGLE	Left	-00°00'	+00°00'	+01°02'	+00°01'
	Right	-00°00'	+00°00'	+01°02'	+00°07'
	Max diff. Left/Right	-00°00'	+00°00'	+01°02'	+00°06'
TOTAL TOE	Left	+01°00'	+00°00'	+02°04'	+00°08'
	Right	0mm	---	---	0mm
	Max diff. Left/Right	0mm	---	---	0mm

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

## Pre-Alignment Inspection Report

**WHEEL ALIGNMENT CENTRE**  
Mohan Nagar, Pudukcherry.

**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 : Pudukcherry  
 Model : SX4 State : Pudukcherry  
 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
Center 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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**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+**



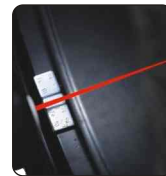
- Suitable for Car and LCV wheels
- Two modes of measurement - Normal & Fine
- Seven modes of Alloy wheel functions
- Graphical user interface for live balancing
- Option for “grams” / “ounces” unit conversion
- Automatic distance input (Not available in DL-65 C)
- Rim parameter value entry through wheel rotation
- Over voltage & over load protection circuit
- 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

### Automatic distance & diameter measurement



Automatic distance & rim diameter input through distance measuring rod.

### Automatic width measurement



Automatic rim width measurement.



## Alloy Wheel Functions



7 Alloy wheel (ALU) functions.

## Auto Start



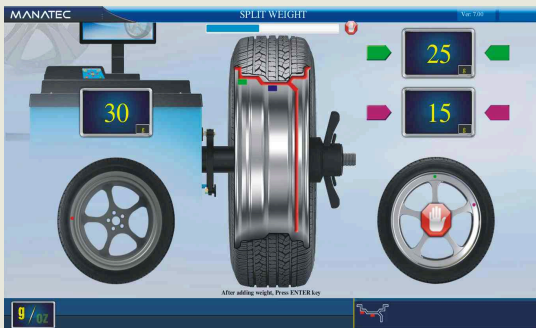
Automatically starts when wheel guard is closed

## Optimization Program

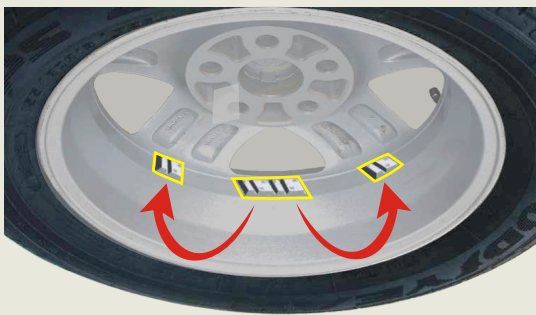


Optimization program helps in reducing wheel weight consumption.

## Split Weight Program



Split weight program (spokes program) helps to split the weight to be hidden behind the spokes of the alloy wheels.



## Mid Centering Device



Mid centering device for positioning of wheels accurately at center of the rotor assembly. Quick Change Lock Nut (QCLN) to ensure fast mounting and removal of wheel.

## 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)
<b>Rim distance</b>	
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
<b>Resolution</b>	
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

## Standard Accessories

	Wheel Guard
	Width Caliper
	Weight Plier
	Mid centering device kit with QCLN assembly, Hub, Hub cover & pressure ring
	<b>Wheel seating dual cone, Medium taper</b> <ul style="list-style-type: none"> <li>■ Dia 44 to 60 mm*</li> <li>■ Dia 52.5 to 70 mm</li> <li>■ Dia 66 to 83.5 mm</li> <li>■ Dia 80 to 97.5 mm</li> <li>■ Dia 94 to 111.5 mm</li> <li>■ Dia 113.2 to 125.9 mm*</li> </ul>

\* Not Applicable for DL 65 C & DL 65 C+



**Model :**  
**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**



» 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**



» 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 - RFT Tyremate 200 TL	TC - XL - 40
Rim clamping from inside	12" – 24" (305 – 610 mm)	12" – 21" (305 – 533 mm)
Rim clamping from outside	10" – 21" (254 – 533 mm)	10" – 18" (254 – 457 mm)
Max. wheel diameter	38" (960 mm)	37" (930 mm)
Max. wheel width	3" – 12" (76 – 305 mm)	3" - 12" (76 - 305 mm)
Operating pressure	8 – 10 bar	6 – 8 bar
Bead breaker force	2500 kg	2500 kg
Power supply	220V AC, Single Phase, 50 Hz	220V AC, Single Phase, 50 Hz
Power	1.5 HP	1.0 HP

### Standard Accessories



### Optional Accessories



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

# Wall Mounted NFS

Model : **WM NFS**



## Salient Features

- Suitable for 2W, Cars & Van
- Wall mount type, compact in size
- Live N<sub>2</sub> generation to inflate tyres
- In-built with manual Tyre pressure gauge in inflator hose saves time
- Ergonomic design to reduce space and cost
- Ideal for puncture shops, fuel station and garages

## Technical Specification

Nitrogen generation	<b>PSA technology</b>
Nitrogen purity	<b>95 - 99%</b>
Air Inlet pressure	<b>8 -10 Kg/cm<sup>2</sup></b>
Nitrogen outlet pressure	<b>6-7 Kg/cm<sup>2</sup></b>
Power supply	<b>220V AC, Single Phase, 50 Hz</b>
Power	<b>25 W</b>



Model : **Air D150**



## Salient Features

- Solid - state high precision pressure sensor
- A specially developed software to carry out all functions -filling /releasing, measuring and controlling
- An advanced closed loop control & monitoring circuit
- No possibility of over inflation ensures safety to the operator and to the tyres

## Technical Specification

Pressure setting range	<b>3 - 150 PSI</b>
Resolution	<b>1 PSI</b>
Accuracy	<b>± 1 PSI</b>
Display	<b>1" Dual LCD display</b>
Maximum Input Pressure	<b>150 PSI</b>
Inlet Air Pressure	<b>7 - 10 Kg/cm<sup>2</sup></b>
Temperature Range	<b>-20° C to 70° C</b>
Power supply	<b>230V AC ±10%, Single Phase, 50 Hz</b>
Power consumption	<b>60 W</b>

# Air Compressor

Model : **AC**



<< **Reciprocating type air cooled Compressor** >>

## Salient Features

### Key product 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
- Low 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)	<b>3</b>	<b>5</b>	<b>7.5</b>	<b>10</b>	<b>15</b>
Compressor (RPM)	<b>1050</b>	<b>925</b>	<b>1050</b>	<b>750</b>	<b>1150</b>
Maximum pressure (Bar)	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>12</b>
Piston displacement (LPM/CFM)	<b>397 / 14</b>	<b>501 / 17.7</b>	<b>700 / 24.8</b>	<b>997 / 35.4</b>	<b>1535 / 54.3</b>
Free air delivery (LPM/CFM)	<b>167 / 5.9</b>	<b>410 / 14.5</b>	<b>580 / 20.7</b>	<b>850 / 30.1</b>	<b>1250 / 44.1</b>
Air receiver (LTR)	<b>250</b>	<b>250</b>	<b>300</b>	<b>500</b>	<b>500</b>
No of cylinders	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>
Power supply	<b>415V AC, 3 Phase, 50 Hz</b>				

**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)

TRANSPORT DEPARTMENT SEAL		FORM EMISSIONS CONTROL TESTING STATION (REG-2010-1072)	
High Tech Wheel Care		100 Feet Road, Madhapur, Hyderabad-500084, Ph: +91 43 2249006	
Registering Authority / License No. - 56M			
EMISSION TEST CERTIFICATE			
Job No. : 25036	Vehicle Make : Honda	Fuel : Petrol	
Send No. : 020622	Vehicle Model : Honda Civic	Colour : SO	
Car Name : Ravikiran	Vehicle Type : Four Wheeler	Test Date : 06/07/2014	
Vehicle No. : TN-07-M-4665	Engine Type : 4 Stroke	Test Time : 11:42:18 AM	
Run Rate : 7000	Engine No. : J401021	Class No. : 2041544	
Reg. Date : 16/06/2010	Transit : SO	Share Status : Yes	
Test Result : IDLING		Photo of Vehicle	
Parameter	Regulation	Color Coding	<p>Valid Till : 07/01/2015</p>
Power	1500	GREEN	
CO2 (ppm)	4.8	GREEN	
HC (ppm)	80	GREEN	
CO (ppm)	10	GREEN	
NOx (ppm)	10	GREEN	
PM	0.01	GREEN	
Lambda	1.0	GREEN	
AFR	14.7	GREEN	
Oil Temp	100	GREEN	
Oil Press	0.8	GREEN	
Oil Leak	0.05	GREEN	
RESULT : <b>PASS</b> 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(2) of C.V. Rules 1988.			
Seal of Testing Station	Name of Testing Person	Authorized Signature	
Thank you for using <b>MANATEC</b> 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

### Technical Specification

Measurement Parameters	Range	Resolution
CO (Carbon Monoxide)	0 - 15%	0.01%
CO <sub>2</sub> (Carbon Dioxide)	0 - 19.9%	0.1%
HC (Hydro Carbon)	0 - 20000 PPM	1 PPM
O <sub>2</sub> (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	

### Standard Accessories

	Sampling probe assembly		Battery cable (for DC operation)
	Inductive pickup & cable assembly		Gas scrubber kit
	Gas test software & USB cable		

### Optional Accessories

	NOx sensor*		Oil temperature probe
	Thermal printer*		Universal probe adapter kit for 2/3 wheelers
	Battery based* RPM measurement		

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

### 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





**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)

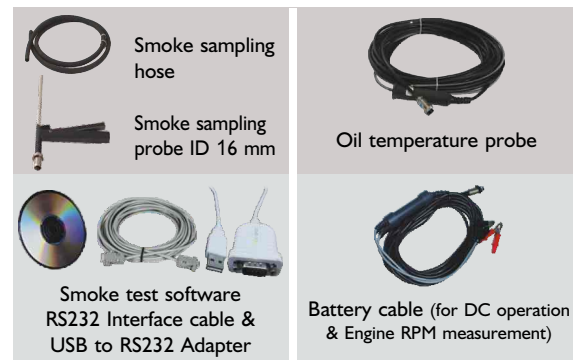
FORM (EMISSION ENGINE CONTROL TESTING STATION)						
SI No. :	High Tech Wheel Care 500 Feet Road, Madhapur, Hyderabad - 500 084, PH : 91 43 228856					
TRANSPORT IDENTIFICATION SEAL :	Registering Authority / License No. - 3638					
EMISSION TEST CERTIFICATE						
Job No. : 28653	Make : Maruti Suzuki					
Serial No. : 4806	Model : Logan					
Yr of Regn. : 2008	Yr of Regn. : 2008					
Customer Name : Anil Kumar	Vehicle Type : Four Wheeler					
Test Date : 06/08/2014	Test Time : 03:23:25 AM					
Vehicle No. : TN-01-M-2561	Know Regn. : 85733					
Vehicle Target Data						
Idle RPM : 700	Max. RPM : 4000					
Oil Temperature : 75°C						
Test Data						
Sl. No.	Opacity	K-value	Idle	Max.	Time	Oil Temp.
1.	35.5	1.81	750	2500	1.5	67%
2.	35.5	1.82	750	2500	3.5	67%
3.	35.5	1.81	760	2600	1.6	67%
4.	35.5	1.81	760	2600	2.4	67%
Avg. 35.5 I.R.I						
RESULT <b>PASS</b> <input checked="" type="checkbox"/> Thank you for keeping your Vehicle clean and Environment Green						
Certified that this vehicle's Smoke Emission level conforms to the standard prescribed under Rule 152(a) of C.V. Rules 1989.						
Permissible limit of K-Value is 2.45 Km (Opacity : 65%)						
Valid Till : 05 / 02 / 2015						
Photo of Vehicle 						
Seal of Testing Station		Name of Testing Person		Authorized Signature		
Thank you for using MANATEC Diesel smoke meter						

## Salient Features

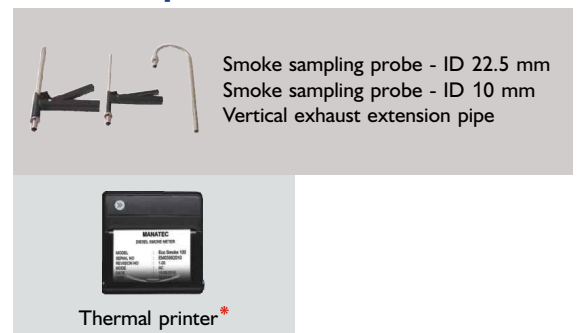
- Measures smoke opacity of diesel vehicles in % opacity and K value
- Measurement principle : Partial flow, optics based on folded geometry
- Suitable for free acceleration test
- Engine oil temperature measurement
- Operates on 230V AC (or) 12V DC power supply
- Portable, Compact & light weight design, 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 <sup>-1</sup>	0.01 m <sup>-1</sup>
Linearity	± 0.1 m <sup>-1</sup>	
Repeatability	± 0.1 m <sup>-1</sup>	
Zero & Span drift	± 0.1 m <sup>-1</sup>	
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

# Two Post Lift

Model : **Rhino 4 HF** 4 Ton  
Floor Plate



Model : **Rhino 4 HC** 4 Ton  
Clear Floor



>> Electro Hydraulic <<

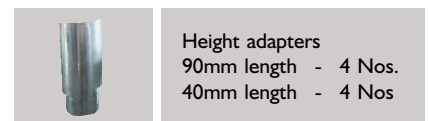
## Salient Features

- Lifting of Cars, MUVs & SUVs by Electro-Hydraulic power
- Suitable for Lifting / Lowering of Vehicles upto 4 ton weight
- Dual Hydraulic cylinder to ensure steady Lifting & Lowering
- Symmetric Vertical posts for wider opening of Vehicle door
- Universal Telescopic Asymmetric Lifting arms with 2 deck to accommodate different kinds of vehicles
- Limit switch for automatic stopping at extreme upper positions
- Safety mechanism using Steel rope to provide synchronous movement of both lifting arms
- Automatic Locking / Releasing device for Lifting arms while Raising
- Mechanical safety locking system to lock vehicle at different heights while lifting
- Rubber pad in vertical columns for safe door opening
- Power pack on front side of the post for easy operation and installation at lesser bay width

## Technical Specification

Specification	Rhino 4 HF		Rhino 4 HC	
Lifting capacity	4 Ton		4 Ton	
Overall height	2800 mm		3660 mm	
Bay width	3420 mm		3420 mm	
Inside column	2755 mm		2800 mm	
Load distribution (Front : Rear)	2 : 3		2 : 3	
Lifting time	50 seconds		< 45 seconds	
Drive through clearance	2576 mm		2576 mm	
Maximum lifting height	1700 mm		1800 mm	
Minimum height	100 mm		110 mm	
<b>Lifting arm adjustments</b>	<b>Front</b>	<b>Rear</b>	<b>Front</b>	<b>Rear</b>
Minimum length	675 mm	735 mm	700 mm	830 mm
Maximum length	1000 mm	1120 mm	1060 mm	1330 mm
Power supply	380V AC, 3 Phase, 50 Hz		380V AC, 3 Phase, 50 Hz	
Power	3.0 HP		3.0 HP	

## Standard Accessories



Height adapters  
90mm length - 4 Nos.  
40mm length - 4 Nos



Model : **FSL E35** 3.5 Ton

» Electro Hydraulic «



## Technical Specification

Lifting capacity	3.5 Ton
Max lifting height	2030 mm
Min lifting height	330 mm
Platform length	1440 - 1740 mm
Platform width	550 mm
Lifting speed	<55 seconds
Dropping speed	<55 seconds
Input air pressure	6-8 Kg/cm <sup>2</sup>
Power supply	380V AC, 3 Phase, 50 Hz
Power	2.2 KW

## Salient Features

- Flush-Mount Scissors lift
- Easy for tyre and chassis maintenance
- Occupies smaller area
- Electro hydraulic operation
- Pneumatically controlled mechanical lock for safe operation
- Lifting power is higher due to double cylinder structure

# 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** 4.0 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	4.0 Ton
Max lifting height	1750 mm
Min lifting height	250 mm
Platform length	4250 mm
Platform width	530 mm
Lifting speed	<45 seconds
Dropping speed	<30 seconds
Input air pressure	6-8 Kg/cm <sup>3</sup>
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	ME - WL 4T	ME - 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 <sup>2</sup>	9 to 12 Kg/cm <sup>2</sup>
Lifting height	1500 mm	1500 mm
Ramp length	4500 mm	—
Spider arm	—	Inclusive
Tyre rest platform	Optional	—
Oil fill capacity	150 Itrs.	150 Itrs.



**Model : PB 700 Eco**  
**PB 700 Eco (WB)**



## Salient Features

- EPS (Expanded Polystyrene) sandwich panels, no Thermo transfers between inside and outside of the booth
- 8 ceiling light boxes (each with 3x16 Watts) LED bulbs
- Pre-filter class EU3 in Thermic group
- Fine filter in ceiling class Eu5
- Paint stop floor filter EU2 with filter frame
- Metal base (300 mm height )
- Two row K700 capacity galvanized grids floor
- Three rows of reinforced GI plates
- Standard Paint Booth includes the blower with damper unit and thermic unit
- Single turbo fan 5.5 kw (intake)
- Riello G10 Diesel oil burner
- Full function control panel with CE approved electric components

Control Box with :

- a) Thermostat 0-80°C
- b) Electric wiring cable
- c) Fan motor start / stop
- d) Burner start / stop
- e) Emergency stop
- f) Digital temperature setting
- g) Timer adjustment
- h) Operating hour counter

## Technical Specification

Specifications	ME-PB 700 Eco	ME-PB 700 Eco (WB)
Outside dimensions	7000 x 5350 x 3400 mm	7000 x 5350 x 3400 mm
Inside dimensions	6900 x 3900 x 2650 mm	6900 x 3900 x 2650 mm
Main door dimensions	3000 x 2600 mm	3000 x 2600 mm
Service door dimensions	650 x 1800 mm	650 x 1800 mm
Flow Rate	18000 m <sup>3</sup> /h	18000 m <sup>3</sup> /h
Air velocity	0.2 - 0.3 m/s	>=0.21 m/s
Working temperature	60 - 80 °C	80 °C
Fuel consumption	Depends on usage, filter & ambient condition	
Lighting intensity	650 - 700 Lux	<800 Lux
Sound level	<80 dBA	<80 dBA
Applicable vehicle	Passenger car	Passenger car
Power supply	380V AC, 3 Phase, 50 Hz	380V AC, 3 Phase, 50 Hz
Power	6.5 KW	8 KW



# Mig Mag Welder

Model : **Mig / Mag 250 XL**



## Salient Features

- The inductor system ensures excellent welding characteristics on very thin materials
- Equipment can weld MS sheets
- Compatible with all welders
- Suitable for automobile and manufacturing sector
- High quality and robust design
- Automatic wire speed selection
- Time selection for spot welding
- High quality german made torch
- User-friendly control panel

## Technical Specification

Fuse	1 amp for pcb
Open circuit voltage	15 - 35 V
Voltage positions	7
Duty cycle 100%	90 A
Duty cycle 60%	110 A
Duty cycle 30%	135 A
Current range	40 - 250 A
Wire reel weight	5 - 15 kg
Wire speed	2 - 15 m/min
Power supply	400V AC, 3 Phase, 50 Hz

# Plasma Cutter

Model : **PC 40**



## Technical Specification

Rated input current	9.4 A (Max. 13 A)
No load voltage	230 V
Output current regulation	20 - 40 A
Duty cycle	60 %
Efficiency	85 %
Power factor	0.8
Protection class	IP23
Cutting thickness	1 - 10 mm
Power supply	230V AC±10%, Single Phase, 50-60 Hz
Power	4.9 kVA

- Inverter technology for compact design and better efficiency
- Adjustable Cutting current for different sheet thickness
- Able to cut Mild steel, Stainless steel, Aluminum, Copper etc.

Model : **DP 3500**



## Salient Features

- Designed for metal panels
- A truly amazing design
- Special tip for Shrinking
- High output transformer
- A whole package for all tinkering needs

## Technical Specification

Number of modes	<b>2 (Dent and Shrink)</b>
Triggering	<b>Automatic</b>
Triggering Input	<b>230V AC - 50 Hz</b>
Output	<b>3500A I max</b>
Output kVA nominal	<b>11.5 kVA</b>
Output voltage	<b>7 V</b>
Input cable	<b>2.5 mm<sup>2</sup> 3 core x 6 mtr</b>
Output cable +	<b>70 mm<sup>2</sup> x 2 mtr</b>
Output cable -	<b>50 mm<sup>2</sup> x 2 mtr</b>
Protection	<b>IP21</b>

# Inverter Spot Welder

Model : **ISWI3KA**



## Salient Features

- The inverter technology that allows constant and high welding current not influenced by the variation of the supply voltages and by the secondary circuit conditions, the quality of the spot is improved also on galvanized sheets.
- The high current value allows to reduce welding time resulting in a longer electrodes life.
- The reduced absorption balanced on the three phases reduces the connecting and consumption costs.
- Allow simultaneous connection of two tools with automatic recall of the relevant memorized welding program, enabling to save time, avoid errors so to have a simple and safe working process.

## Technical Specification

Mains protection (delayed)	<b>50 A - delayed</b>
Clamping force	<b>550 daN</b>
Nominal Power 50% ED	<b>25 kVA</b>
Maximum welding power	<b>190 kVA</b>
Maximum secondary current	<b>13000 A</b>
Thermal current 100%	<b>1.25 kA</b>
No load secondary voltage	<b>16 V</b>
Weld time	<b>0.01 ÷ 2s</b>
Supply supply	<b>400V AC, 3 phase, 50 Hz</b>

## Standard Accessories

- Pair of water-cooled cables
- Adjustable height trolley with tray and arms holder
- Pair of water-cooled arms
- Water cooling electric group 2LP
- Compressed air filter-regulator
- Suspension arm
- Spring balancer

# Automatic Car Washer



## Model : Touchless Automatic Car Washer



### Technical Specification

Construction material	<b>Stainless Steel (SS-304)</b>
Required space (LxWxH)	<b>7000 mm x 4250 mm x 3700 mm</b>
Overall dimension(LxWxH)	<b>5500 mm x 3950 mm x 3080 mm</b>
Maximum washable dimension of car (LxWxH)	<b>4750 mm x 1900 mm x 1900 mm</b>
Water consumption	<b>125 ltr / Car (depends on car length)</b>
Shampoo consumption	<b>20 ml / Car</b>
Electrical consumption	<b>0.5 unit / Car</b>
Water pressure	<b>22 - 24 Bar</b>
Number of nozzle	<b>16 + 14 Nos.</b>
Cycle time	<b>3 min /car</b>
Total connected load	<b>7 kW</b>
Power consumption	<b>0.6 units /car (depends on car length)</b>
Pump type & capacity	<b>Centrifugal multistage pump (7.5 HP)</b>
Length detecting sensors	<b>Available</b>
Site requirements	<ul style="list-style-type: none"> <li>◆ 3 Phase, 415V Electricity supply</li> <li>◆ Overhead water tank</li> <li>◆ 6 Bar compressed Air connection up-to control panel</li> </ul>

### Optional Accessories

- Auto dryer unit
- Ultra sonic sensor

## Model : Touchless Automatic Under Chassis Car Washer



### Technical Specification

Construction material	<b>Stainless Steel (SS-304)</b>
Required space (LxWxH)	<b>7000 mm x 4250 mm x 3700 mm</b>
Pit dimension (LxWxH)	<b>5500 mm x 850 mm x 325 mm</b>
Number of cycles to clean	<b>1 (2 pass)</b>
Operating pressure (water)	<b>24 Bar</b>
Water consumption	<b>40 ltr /car (depends on car length)</b>
Time consuming for one cycle	<b>40 sec /car (depends on car length)</b>
Number of nozzle	<b>18 Nos.</b>
Input Power supply	<b>415V AC, 3 Phase, 50 Hz</b>
Power consumption	<b>0.07 units /car</b>
Total connected load	<b>6 kW</b>

### Optional Accessories

- Ultra sonic sensor



# High Pressure Car Washer

Model : **HPCW 120**



## Salient Features

- Triplex plunger pump - HAWAK Made in Italy
- VRT 3 unloader valve
- Starter with cable
- MV 925 QRC gun with 400mm Lance and V jet Nozzle SS
- Foam Gun with male coupler
- High Pressure heavy duty hose 3/8"-10m
- Suction hose -3m
- Pressure gauge
- Electric motor ( Crompton / Rotomotive / BBL )

## Technical Specification

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

# Vacuum Cleaner

Model : **VC 70**



## Technical Specification

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

## Standard Accessories

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

**Models :** **i COOL 100**  
**i COOL Pro 100 D**  
**i COOL Pro 100**



- LCD Monochrome display
- 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 models*)
- Electronically controlled Automatic air purge system from refrigerant tank (*for i Cool Pro 100 models*)
- Tank pressure digital display (*for i Cool Pro 100 models*)
- Spark free Compressor and Vacuum pump (*for i Cool Pro 100 models*)
- Automatic Oil injection PAG oil with separate electronic scales
- 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 500 vehicles)
- Vehicle database with User entry provision
- Software update through USB interface
- Vehicle data update through USB interface
- Shock proof protection for load cells

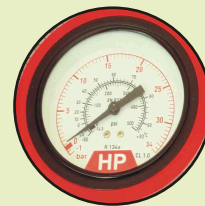
Recharge your Car Air Conditioning with Innovative & **Fully Automatic iCOOL**

- Additional features for i Cool Pro 100 D / i Cool Pro 100 models**
- Automatic Oil injection POE oils with separate electronic scales
  - Electric / Hybrid vehicles compatibility
  - Hose purge system with separate flush input connectors

## LCD Display



## Printout



HP Gauge

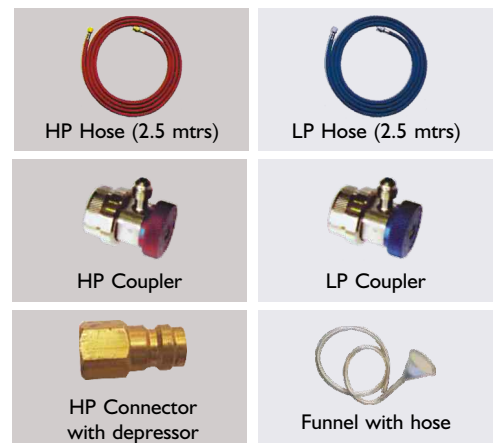


LP Gauge

## Technical Specification

Specification	i Cool 100 i Cool Pro 100 D	i Cool Pro 100
Type of refrigerant	R134a	R1234yf (or) R134a (Pre defined)
Service procedure	Automatic / Manual	
Display	LCD Monochrome 20x4	
Vacuum Pump	4.5 CFM, 1/2 hp, 128 Lit/Min. (for 230V AC) 5.0 CFM, 3/4 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	

## Standard Accessories



# Engine De-Carbonisation Machine

Model : **GN006R**



## Technical Specification

Max. working pressure	4140 LPH
Service capacity	Upto 20000 CC
Power supply	12V - 14V DC

## Benefits

- De-carbonisation is a Zero carbon system, it reduces the carbon footprint of each vehicle
- It can be implemented on all Vehicle that use petrol, diesel, LPG & CNG fuels
- Easy, simple 30 minutes service
- Increase combustion efficiency which reduce engine noise, vibration and black smoke
- Restores fuel consumption and engine performance
- Increase your vehicle mileage
- Low weight and easily portable

## Technical Specification

Max. working pressure	4140 LPH
Service capacity	Upto 20000 CC
Power supply	210V - 240V AC / 12V - 14V DC

Model : **GN008R**



Digital touch advanced Hybrid technology  
titanium plated



# Waste Oil Collection Trolley

Model : **WOCT - 80**



## Salient Features

- Self-contained wheeled unit
- Height adjustable swinging arm
- Airline connection to discharge unit
- Easy to use and position
- Minimise mess and spillages
- Avoid costly accidents
- Heavy Duty Castor Wheels for free movement of trolley within the workshop

## Technical Specification

Tank capacity

80 Ltrs

# Pneumatic Jack with Trolley



## Salient Features

- Lifting capacity 4 Ton
- Pneumatic pit jack to lift the Cars & LCV
- Trolley with wheels give access to move the jack from front to end of the pit

# Impact Wrench



## Salient Features

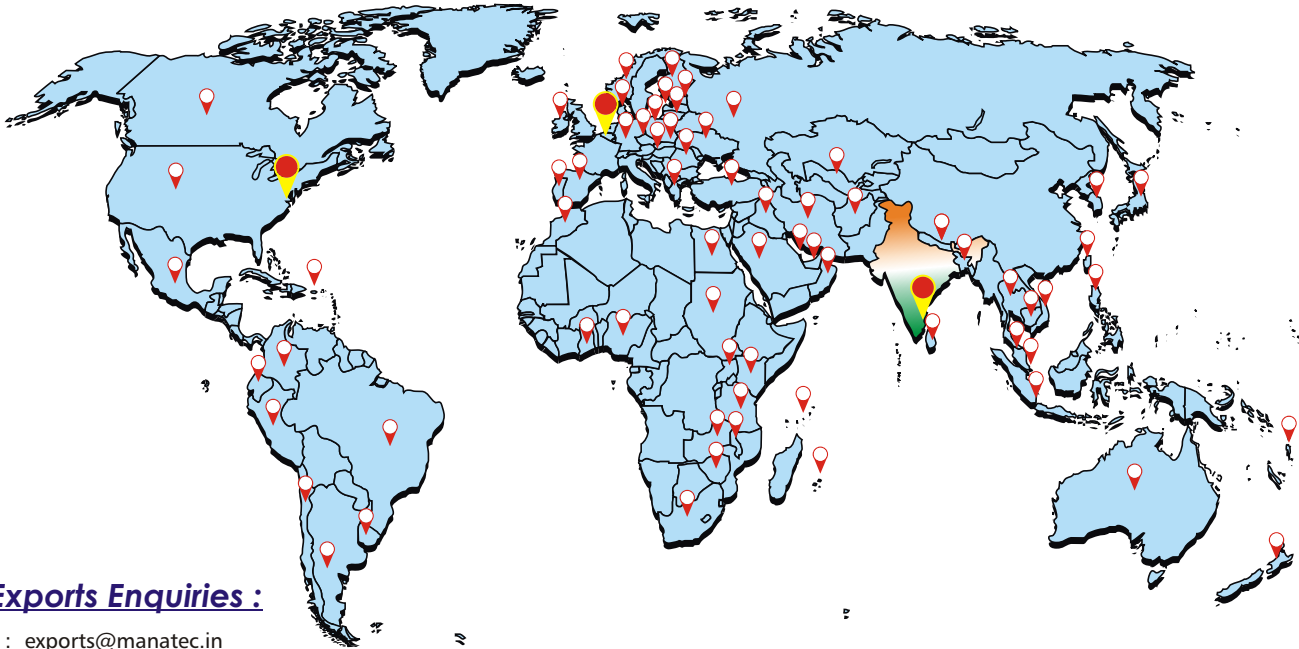
- **1/2" Impact Wrench** to remove wheel nut in PCVs & SUVs
- Capacity bolt size - 19 mm
- Working torque : 525 Nm
- Free speed 7400 RPM







# Global Presence



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ISO 9001 : 2015



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