



MANATECTM
Partners in Progress



Service Equipment & Tools

for Two Wheeler & Three Wheeler Workshop

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Three Wheeler Lift (Electro Hydraulic)

Model : **ME - TWL (Floor Plate)**



- Lifting of Three Wheeler by Electro-Hydraulic power
- Safety mechanism using Steel rope to provide synchronous movement of both lifting arms
- Automatic Locking / Releasing device for Lifting arms while Raising / Lowering
- Mechanical safety locking system to lock vehicle at different heights while lifting
- Rust free product with powder coated finish

Two Wheeler Lift

Model : **ME - TWL 1000P**



- Retractable casters for easy movement around your garage floor
- Wide tyre stop and an integrated leg-lock for safe operation making this motorcycle lift ideal for any biker or motorcycle mechanic that needs to tune-up their ride
- Heavy-duty hydraulic pump with hands-free foot pedal operation
- Diamond plate steel platform and ramp
- Retractable casters and integrated leg-lock for safe operation
- Wide tyre stop
- Removable steel ramps with dual mount pins for security

Model : **TC - XL - 40**



» **Semi Automatic** «

- Suitable for 2 Wheeler, 3 Wheeler, Car and LCV tyres
- Wheel Rim size 10" - 21"
- Pneumatically operated twin cylinders for firm clamping
- Four Jaw self centering chuck
- Alloy wheel plastic protector

Model : **Tyremate 200 TL**

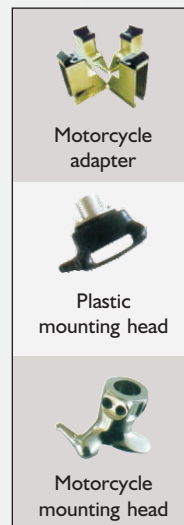


» **Fully Automatic Tubeless** «

- Suitable for 2 Wheeler, 3 Wheeler, Car and LCV tyres
- Pneumatically operated tilting type vertical column
- Pneumatically operated twin cylinders for firm clamping
- Four Jaw self centering chuck
- Alloy wheel plastic protector for jaws



Motorcycle Accessories



Motorcycle adapter

Plastic mounting head

Motorcycle mounting head

Technical Specification

Technical Specification	TC - XL - 40	Tyremate 200 TL
Rim clamping from inside	12" - 21" (305 - 533 mm)	12" - 24" (305 - 610 mm)
Rim clamping from outside	10" - 18" (254 - 457 mm)	10" - 20" (254 - 508 mm)
Max. wheel diameter	37" (930 mm)	41" (1041 mm)
Max. wheel width	3" - 12" (76 - 305 mm)	3" - 12" (76 - 305 mm)
Operating pressure	6 - 8 bar	6 - 8 bar
Bead breaker force	2500 kg	2500 kg
Power supply	220 - 240V AC, Single Phase, 50Hz	220 - 240V AC, Single Phase, 50Hz
Power	1.0 HP	1.0 HP

Standard Accessories



Inflation gun

Tyre lever

Jaw cover

FRL unit

Wheel Balancer



Model : **ME - MCWB-202**



- Specially designed for two wheeler
- Hand Spin. Less power consumption
- Easy to upgrade by just connecting balancer with a PC
- Dynamic / Static mode selection
- Auto calibration
- Self checking on-line error display
- Two modes of weight display – Normal / Fine
- Two units of measurements - mm / Inches
- Compact design – Requires less space
- Built in 6 weight compartment and Space for tools and Cones
- Patented Technology to unbalance weight using fixed shaft

Technical Specification

Rim diameter	8" - 26" (203 - 660 mm)
Max. wheel diameter	49" (1245mm)(w/o wheel guard)
Max. wheel width	16" (406 mm)(406 mm)
Balancing speed	75 - 125 RPM
Measuring time	4 - 15 seconds
Accuracy	± 1 gram
Max. wheel weight	50 Kg.
Power supply	12V DC with AC / DC adaptor
Power	5 W

Nitrogen Filling Station



Model : **ME - NFS 234**



Suitable for vehicles applicable

- Suitable for 2 Wheeler, 3 Wheeler, Cars, Vans, Mini-Buses & Light Trucks
- LCD display for indicating pressure and Nitrogen purity
- Two selectable mode Manual and Automatic
- Nitrogen purity 95-99%
- Automatic tyre inflation under set-up pressure
- Automatic alarm for any error and work finish
- Record last time setting data
- Audible and visual of end of nitrogen generation and inflation

Automatic Tyre Inflator

Model : **Air-o-jet DL**



- Larger backlit 1" dual LCD display
- Soft touch 3M UV coated membrane key pad (Water Proof)
- Automatic filling speed adjustment managed by intelligent software
- Self diagnostic and safe inflation with high accuracy
- Pressure setting range up to 135 psi
- Inbuilt air filter for long machine life

Petrol Gas Analyser

Model : **Eco Gas 100**



- ⊗ DC Operation
- ⊗ PC Interface
- ⊗ Leak Check
- ⊗ Petrol / CNG / LPG Selection

- Conforms to ISO 3930
- NDIR technology
- Engine RPM measurement facility
- 7 Segment LED display
- Automatic condensate discharge
- Automatic zero calibration
- Digital span calibration
- RS232C serial port for PC interface
- NOx measurement (**Optional**)
- Engine oil temperature measurement (**Optional**)
- Portable light weight design
- DC operation suitable for "Road tests" using vehicle battery
- Display of Lambda / AFR / PEF
- Petrol / CNG / LPG selection
- Indication for Low / High flow
- Indication for battery Low / High voltage
- Electronic leak check facility
- Gas scrubber for cleaning of impure particles
- HC residue test

PC Interface (Optional)



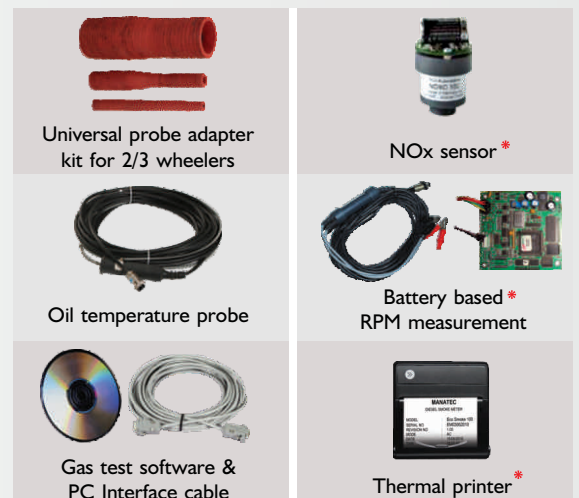
Standard Accessories



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	
Leak test	Electronic	
Condensate discharge	Automatic	
Response time	< 15 Sec. (for sample probe length of 3m)	
Warm-up time @ 25°C & above	< 3 minutes	
Zero calibration	Automatic	
Span calibration	Digital	
Power supply	12V DC ± 2V battery 100-265V AC, Single phase, 50-60 Hz	
Power	25W	

Optional Accessories



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

Diesel Smoke Meter

Model : **Eco Smoke 100**



- ⌘ DC Operation
- ⌘ PC Interface
- ⌘ Free Acceleration Test

- Conforms to IS: 14553 - derived from ISO 11614: 1999
- 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 RPM measurement - vibration sensor based and Battery based (**Optional**)
- 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
- Pass / Fail indication and emission limit in printout
- Vehicle no., vehicle specification, operator name and test data in printout
- RS232C serial port for PC interface

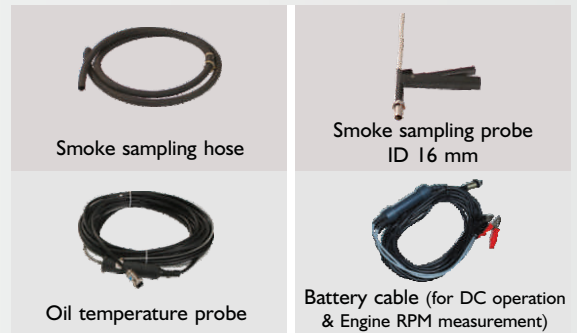
PC Interface (Optional)



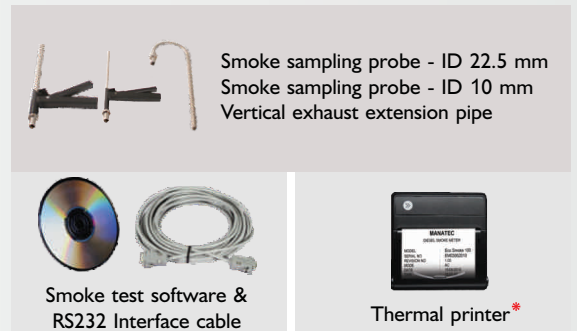
Technical Specification

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)	

Standard Accessories



Optional Accessories



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

ENGINE RPM METER (Optional) for Smoke Meter



Salient Features :

- Accelerometer based RPM measurement
- Compatible for Diesel 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

Component Paint Booth



Model : ME - CPB 2500



- EPS (Expanded Polystyrene) sandwich panels, no thermo transfers between inside and outside of the booth
- 4 ceiling light boxes (each with 3x36 Watts)
- Pre-filter class EU3 in Thermic group
- Fine filter in ceiling class EU5
- Thermic unit with double intake centrifugal fan (2x4 kw motor)

Technical Specification

Outside dimensions	3100 x 4050 x 2800 mm
Inside dimensions	3000 x 2500 x 2350 mm
Main door dimensions	3000 x 2600 mm
Service door dimensions	650 x 1800 mm
Flow rate	25000 m ³ /h
Air velocity	0.2 - 0.3 m/s
Working temperature	60 - 80 °C
Applicable	Automotive components
Power supply	380V AC, 3Phase, 50Hz
Power	20 HP

Air Compressor

Model : ME - AC



Reciprocating type Air cooled compressors

- Low Noise & Cost efficient
- Built-in pressure switch & DOL starter
- Pressure release safety valves at different stages
- Two stage compression for better efficiency

Technical Specification

Power (HP)	3	5
Compressor (RPM)	975	710
Tank capacity (ltrs.)	160 & 250	250
Working pressure (Kg/cm ²)	12	12
Free Air delivery (LPM)	263	390
No. of cylinders	2	2
Power supply	415V AC, 3 Phase, 50Hz	

Air Dryer



Model : ME - AD 60



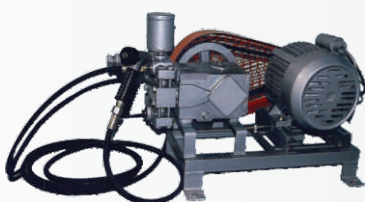
- Dewpoint temperature +3°C
- Designed for high ambient temperatures
- Intelligent controller
- Time delay for compressor safety
- Advanced 3 in 1 heat exchanger for low pressure drop

Technical Specification

Flow in sq. ft./m	60
Power consumption	0.36KW
End connection	1" BSP
Max. Working pressure	16
Pre filter	1 No.
Micro filter	2 Nos.
Refrigerant	R134a

Vehicle Washer

Model : ME - VW 45



- Reciprocating 3 plunger type
- Crank case lubrication splash
- Adjustment spray and Jet
- 6 mtrs Water Hose with Gun

Technical Specification

Displacement	16 LPM
Working pressure	45 Kg/cm ²
Suction lift	1 meter
Crank case capacity	1.5 Ltr
Tested pressure	100 Bar
Motor speed	1420 RPM
Delivery at Jet	16 LPM
Power supply	415V AC, 3 Phase, 50Hz
Power	3 HP

Fuel Injector Cleaner & Tester

Model : **ME - FICT**



- Auto clean
- Auto pulse flow test
- Auto drain
- Auto leak test
- R.P.M. test (500-9000)
- Open flow test
- Injector coil test
- Emergency stop switch for safety
- High precision solenoid valve for accuracy
- Pressure regulator adjustable
- Hold option for leak test
- Digital display for AC voltage

Spark Plug Cleaner & Tester

Model : **ME - SPCT**



- Separate plug cleaning chamber consisting of an abrasive system
- Double acting valve for blasting and subsequent cleaning to remove the abrasive and dust
- Different rubber adapters provided for cleaning plugs of 10 mm, 12 mm, 14 mm and 18 mm sizes
- Twin testing chamber connected to the compressed air system for charging the chamber with the necessary control device
- Pressure Regulator is provided for reducing any excess air and releasing pressure in the chamber

Other Equipment

Waste Oil Collector (50 ltrs)



- Oil tank capacity 50 ltrs.
- Used to collect waste oil from engine, gearbox & axles
- Tank comes fitted with sight gauge to check waste oil level
- Castor wheels fitted with the tank for easy mobility

Waste Oil Collector (20 ltrs)



- Oil tank capacity 20 ltrs.
- Used to collect waste oil from engine, gearbox & axles

Brake Bleeding Machine



- Used to remove air from brake lines
- Single person can operate

Hydraulic Press



- Loading capacity 10 Ton
- Excellent for straightening, stamping and bending work
- Bench top design

Industrial Vacuum Cleaner



- Stainless steel recovery container suitable for Dry & Wet application
- Options with 0.3 Micron HEPA filter
- High vacuum and airflow
- Refer Price list for optional 3 models

Engine Jib Crane



- Loading capacity 2 Ton
- Extendable lifting arm with lock pin
- Mounted with caster wheels
- Chains to hold the engine firmly

Battery Charger



- upto 6 no. of 12V batteries can charge at a time
- Cam operated rotary switches for voltage & current adjustment
- DC ammeter to indicate charging current
- Miniature Circuit Breaker on DC output



C-22 & 23, Industrial Estate, Thattanchavady,
Puducherry - 605 009. INDIA. Ph : +91 413 2232900
Fax : +91 413 2232938
Email : sales@manatec.in
Website : www.manatec.in



Distributor :

