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Select Machines manufactured in ISO 9001 : 2000 certified plant

* Keeping in mind customers benefit from the latest technological improvement specifications subject to change without notice ** Images shown are for representation purpose only. Accessories & features shown in the picture may not be part of the standard equipment

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DIRECT DRIVE TECHNOLOGY UPDATE

Direct-Drive Technology

MAESTRO DD features HVLP (High Volume Low Pressure) direct-drive cylinders, eliminating the need for lifting using chains or screw mechanisms most commonly found on other lift designs.

Dual HVLP cylinders minimize leakage and offer better reliability, smoother operation and less maintenance costs throughout the life of the lift.

High-volume, low-pressure equates to less workload placed on the entire hydraulic system.

Direct-Drive technology is preferred on two-post lifts, as it has fewer moving parts than a chain-over roller configuration. No need for Chains, Pulleys, Bearings etc. Pressurized hydraulic fluid flows from the power-unit, through the hollow cylinder rods and into the cylinder body, filling the inside cavity. The pressure of the hydraulic fluid forces the piston rod to extend downward, raising the cylinder body and hence lifts carriages. A dual-synchro equalization system maintains equal lifting and provides operators with a stable, level vehicle working condition.



DIRECT DRIVE - TECHNOLOGY

LIFTING EQUIPMENT

PTL-2042D

MAESTRO DD

Direct Drive Symmetric Electro-hydraulic Clear Floor 2 Post Lift

- Designed based on the international standard; Pillars in a single steel piece for increased strength and rigidity. concealed hoses for safeguard against damages, heavier Base plate for better stability, arms Laser cut and bent in high quality steel plates and all combine to offer a real 4 Ton lifting capacities.
- MAESTRO DD is a double cylinder design "Direct Drive" type clear floor 2-post lift.
- Dual hydraulic "Direct Drive" cylinders ensures. stable lifting and lowering with many advantages.
- Fewer moving parts as compared to other Hydraulic Lifts as there are no chains, pulleys, etc. thus increase the working life of the Lift.
- · Single Side lock release system saves time and effort.
- Drop-end arms with screw adjustments of the lifting pad provide a lower pad height
- Heavy duty carriage for superior strength and durability
- The cable and oil pipe are fully concealed, with decent and elegant appearance
- Electro mechanical locking device in case of rope failure
- Automatic arm locking device
- Top quality Premium Power Pack





Screw-up highly realiable Nylon Pad



Capacity : 4.0 Ton Lifting Height : 1.85 m

Heavy Duty Power Pack with Steel Tank



PTL - 2042D

LIFTING EQUIPMENT





PRIZE BASE

Symmetric electro-hydraulic 2-Post Lift is especially suitable for all kinds of repairs that requires free access to underbody and wheels

- The cable and oil pipe are fully concealed, with decent and elegant appearance
- Designed based on the international standard, meeting the demand of the garage and workshop.
- Dual hydraulic cylinders drive, stable lifting and lowering.
- Full-scope safety lock, safe and simple in operation.
- Adopt two steel cables for equalization, force two carriages to move synchronously, and effectively.
- Prevent the vehicle from tilting.
- Lowest height of lifting pad is 110mm, good for repairing low chassis or low profile car.







4

Electro-hydraulic Wheel Alignment 4 Post Lift

- Two-layer concealed plate structure, excellent synchronizing performance with the horizontal precision of 1mm.
- Single point Manual release, easy to operate.
- Deployed with rolling jack with small scissor electrical hydraulic lifting and lowering.
- Cylinder located inside of runway, perfectly protected.
- · Electric/hydraulic power system.
- Pneumatic lock release with 4 pcs air cylinder and central control valve
- Great lifting power and excellent adaptability.
- · Heavy-duty equalizer cables with oversize cable sheaves.
- Cable rupture safety system, effectively protects vehicle from overturn.
- · Four connected steel cables force synchronized movement of the lift, effectively
- prevent vehicles from sloping.
- Applicable for vehicles with different wheel base.
- Platform length is 4600mm.



LIFTING EQUIPMENT



SUPER LIFT

Professional Wheel Alignment Scissor Lift With Central Lift

- · Ideal choice for alignment and chassis checking and vehicle maintenance use
- In ground installation
- Adjustable turntable position
- Long rear sliding plate
- 24V control system, 24V limit switch included
- Electrical synchronization of platforms
- 115% dynamic loading and 150% static loading test
- Mechanical safe-lock device with automatic engagement and pneumatic release
- Pneumatic locking system, Stable lifting, and low noise
- Electric foot-guard and up limit switch
- Beeping alert during descent process
- · Photo-cell monitoring kit ensures synchronization





PRIDE SUPER

On Ground Ultra-Thin Inspection Hydraulic Scissors Lift

- 3.5 Ton lifting capacity.
- Surface mounted Full Rise Scissors lift
- Four cylinder structure. Thin Sturdy frame, 105 mm shut height and 1900mm Maximum Lifting Height
- Double safety device Hydraulic Lock and mechanical lock pneumatic release security Lock ensures safety and reliability
- Lifting process with overload explosionproof safety valve device, in case if oil hose burst instantly, the machine will not fall.



- · With manual power down the device, the vehicle can drive safely
- Excellent design easy for car going on and out.
- Tested for 115% dynamic loading and 150% static loading test.
- Beep alert during decent process.



A. Double Safety Device



B. Double hydraulic system. Double Safety Device - Pneumatic Lock release

Capacity : 3.5 Ton Lifting Height : 1.9 m

A D

PXL-3500 ON

LIFTING EQUIPMENT





TWIN-PARK

Car Parking Lift

- Ideal choice for simple vehicle services and vehicle parking in families or commercial parking lifts.
- Manual release, simple and convenient.
- Low profile design for easier driving-on.
- The mechanical safety lock automatically engaged when rising.
- Oil drip tray protects the vehicle below from being contaminated.
- Low control voltage (240V) guards against unexpected hurt or injury.
- It has been proofed by dynamic test with 115% of rated capacity and static test with 150% of rated capacity.
- Optional mobile kit can make the whole lift move easily.









1 Low Profil

DYNA

2. Drip Tra OPTIONAL ACCESSORIES



PPL-2000

Body Shop Lift

Thanks to the paralleogram structure, the central skate with heavy duty wheels, the telescopic pivoting arms and its ideals lifting height, this lift fits perfectly into the car body repair shop

- Power package on wheels
- Dual cylinder structure, ensure stable raising and lowering.
- Pneumatically disengaging mechanical safety device
- Hydraulic safety device in case of failure of hydraulic hoses

Electro-hydraulic lift for car body shops

Power Package on wheels

Capacity : 2.7 Ton Lifting Height : 1 m

LIFTING EQUIPMENT



PBL-1000CG

BATLY

Mobile Scissors Battery Lift

- Easily transfer without Installation
- Elevates from 1025 -1840mm
- The lift table is in either Pneumatic or Electric models
- Angle adjustable table is built to meet with the battery bottom seamless
- Convenient to position the table and carry the battery to the right place horizontally in 30mm without moving the lift
- The lift table also features high quality components assembly for Fast & Precise lifting







Capacity : 1.0 Ton

RAPID

PPL-3500

Portable Rapid Lift

- Lightweight Frame type body design.
- Light body takes up less space
- Drived by powerful Electro-hydraulic system.
- Equipped with hydraulic syncronization and mechanical lock rod for the double safety.
- Equipped with wheels, for easy mobility or adjust lifting position.
- Applicable to the Tyre shop, for Quick repairs, Car decoration, for external modifications etc.



Capacity : 3.5 Ton Lifting Height : 460 mm

LIFTING EQUIPMENT

PRL-3500



ATLAS

HCV Electro-hydraulic Mobile Column Lift

- Mobile and universal use, indoors and outdoors.
- Easy handling by comfortable operation directly from any column, best manoeuvrability, short set up time and high lifting speed.
- Maximum working safety with double load securing by automatic hydraulic and mechanical all position locks, fully synchronized control and supervision of all columns.
- Reliable hydraulic drive, self-lubricating, totally insensitive to moisture, dirt and sand, minimum maintenance required.

Upgrade from 4 to 6 Columns



EHB707-4

Each Column Capacity 7.2 Ton

PWL-3920

SUPERB AD



DIGITAL WIDE VISION CAMERAS



Wide vision ensures larger fan angle allowing the vehicle wheels to be seen at multiple heights



Ultra light & small size Targets (No spirit level needed)

Professional 2 Camera 3D Wheel Aligner

- The operation of the Wheel Aligner is based on measurements of wheel axis angle parameters by digital video cameras and high-precision image targets.
- Handy and easy to use with Ultra Light Targets.



Alignment on 4 Post / Scissors Lift: Quick Handling: Higher Productivity



FINAL ADJUSTMENT SCREEN: The Centering Function allows to accurately set the front TOE value, besides setting it within the prescribed tolerance, so that the vehicle always goes straight; saving on repeat jobs.(avoiding crooked steering wheel)

10

PWL-3940

SUPERB PRO



DIGITAL WIDE VISION CAMERAS



Wide vision ensures larger fan angle allowing the vehicle wheels to be seen at multiple heights



Ultra light & small size Targets (No spirit level needed)

Professional 4 Camera 3D Wheel Aligner

- The operation of the Wheel Aligner is based on measurements of wheel axis angle parameters by digital video cameras and high-precision image targets.
- Handy and easy to use with Ultra Light Targets.
- High speed measurement.

Alignment on 4 Post / Scissors Lift: Quick Handling: Higher Productivity



The 4-camera Wheel Aligner allows to take measurements and perform alignments on the lift in the range of lift heights of 0 to 1700* mm from the floor level



FINAL ADJUSTMENT SCREEN: The Centering Function allows to accurately set the front TOE value, besides setting it within the prescribed tolerance, so that the vehicle always goes straight; saving on repeat jobs.(avoiding crooked steering wheel)

11)



SPECIALE

SPECTALE

Professional 2 Camera 3D Wheel Aligner

- SPECIALE Wheel Alignment System is designed to take measurements and perform alignment on steerable and unsteerable wheels in automotive dealer workshops, car service stations, tyre shoppes and diagnostic centers
- The operation of the Wheel Aligner is based on measurements of wheel axis angle parameters by digital video cameras and high-precision image targets
- Only Target which Works Under Sunlight
- Extremely Quick Clamping
- Self Centering 3 Point Tyre Clamps
- Quick Locking Unit



MAGIC CLAMPS

- Ultra Light Weight Three Point Tyre Clamps with Adjustable Arms 47-1100mm.
- Extremely Quick Clamping with no Scratch to Rim



CARBON INTELLIGENT TARGETS

 Worlds First Ever Intelligent Target Which Adjusts Itself Automatically to Work in any Lighting Conditions, including Sunlight.



CUSTOMISE BRANDING

 Customise Your Own Tyre Shop Name, making your Business Stand Out with no Scratch to Rim



SPECIALE SOFTWARE

- Worlds Most Advanced Image Recognition & Processing Software with New Rolling Run Out Function.
- Introducing New Centering Function to Achieve a Straight Steering Every Time.



FINAL ADJUSTMENT SCREEN: The Centering Function allows to accurately set the front TOE value, besides setting it within the prescribed tolerance, so that the vehicle always goes straight; saving on repeat jobs.(avoiding crooked steering wheel)









SUPERB AD 360

Professional 2 Camera 3D Wheel Aligner on Wheels



PWL-392M



CARBON INTELLIGENT TARGETS

 Worlds First Ever Intelligent Target Which Adjusts Itself Automatically to Work in any Lighting Conditions, including Sunlight.

WHEEL ADAPTERS

- Ultra Light Weight Three Point Tyre Clamps with Adjustable Arms 47-1100mm.
- Extremely Quick Clamping with no Scratch to Rim
- SUPERB 360 A moveable Wheel Alignment System designed to take measurements and perform alignment on vehicles raised on lift with wheels in suspended position
- The move ability helps to position the machine in any bay where the vehicle is, thus saving time to move every vehicle to bring in the dedicated alignment bay.
- This dual capability also makes it an ideal machine for tyre shoppees with space constraints and a
 moveable system is the only way.
- Capability to perform alignment with wheels raised and in suspended position also make it an ideal to
 partner with a moveable wheel lift, thereby making it an anywhere machine.
- Movable Wheel Aligner
 No need for Pit
 2 Post Lift Compatible
 No Fixed Alignment Bay
 Increase Productivity



SUPERB 360 SOFTWARE

- Worlds Most Advanced Image Recognition & Processing Software with Suspended Wheel Feature Allowing Alignment to be Performed on any Lift
- Introducing New Centering Function to Achieve a Straight Steering Everytime

AUTOMATIC CALIBRATION

 No Calibration Required When the Aligner is Moved from One Bay to Another



FINAL ADJUSTMENT SCREEN: The Centering Function allows to accurately set the front TOE value, besides setting it within the prescribed tolerance, so that the vehicle always goes straight; saving on repeat jobs.(avoiding crooked steering wheel)

13)



SMART 4D

Specialized SMART 4D Wheel Aligner



Welcome To The World Of Smart Cameras

- 3D Image Tech based wheel aligner using 2 digital high resolution android based cameras for very
 fast and accurate wheel alignment using cutting edge software
- · Twin Pod design with wifi connected pad for ultimate flexibility
- · Tablet controlled wheel aligner all display on wireless tab
- No computer or pc required
- · Flexibility in the installation and maximized use of the available space
- Reduced Installation Time
- Hi-tech Design



CARBON INTELLIGENT TARGETS

 Worlds First Ever Intelligent Target Which Adjusts Itself Automatically to Work in any Lighting Conditions, including Sunlight



WHEEL ADAPTERS

- Ultra Light Weight Three Point Tyre Clamps with Adjustable Arms 47-1100mm.
- Extremely Quick Clamping with no Scratch to Rim



WIRELESS TAB

- A new concept of CCD wheel aligner. Totally PC-free will be usable through a Wi-Fi connection from an handheld device.
- Powered with Worlds Most Advanced Image Recognition & Processing Software.



Eccentricity Measurement Technology Update

A Square wheel can also be balanced... but will not give a smooth ride.

Balancing was sufficient... if the wheel never came in contact with the road.

How to mount and align tyres which don't have a paint dot... with a valve stem on the rim?

Need to take into consideration ROAD FORCE... as felt by the wheel.

ELIMINATE TYRE AND WHEEL VIBRATION BY MATCHING THE TYRE TO THE RIM: First harmonic of the rim to be indexed to cancel the FORCE vibration.

Theory

If a wheel has a tyre tread which is not concentric with the rotation axis, due to a tyre defect or to a rim deformation, this may often cause vertical vibration, even when the wheel is balanced. An eccentricity between the geometric axis of the wheel's outer surface and the axis of its journal creates a lifting and lowering of the vehicle with each rotation of the wheel. This phenomenon would have a range equal to twice the eccentricity if it weren't for suspension and tyre elasticity. When balancing a wheel, it is therefore advisable to check the tyre tread eccentricity by turning the wheel by hand and measuring the distance between a fixed point of reference and tyre tread in various position, or, better still, using especially-designed measuring device.

An electronic device like the EMS (Eccentricity Measuring System) can be used to measure both the overall tyre eccentricity (Peak value) and the eccentricity of the first harmonic alone very quickly.

QUITE SIMPLY, THE EMS HELPS LOCATE THE RIGHT POSITION TO MOUNT THE TYRE ON THE RIM FOR UNPARALLEL BALANCING RESULTS AND INCREASED TYRE LIFE.



RADIUS

Computerised Videographic Wheel Balancing Station

In addition to Wheel Balancing it also measures the tyre's radial deformity (run-out) and defects. Special sensors are used to measure the tyre's first harmonic eccentricity and peak values. It is also possible to measure the wheel rim eccentricity, so as to evaluate whether it is worthwhile turning the tyre on the rim. Clear graphic indications and the practical test method make it easy and fast to check the quality of all wheels!









Computerised Videographic Wheel Balancing Machine

19" colour display Easy setting.
 Digital data setting using "+" & "-" keys.
 Brief cycle time of 6 secs.
 Single spin low RPM balancing technology.
 Automatic positioning for weight installation.
 Self Calibration using master weight.
 Self Diagnostic Un-balance Optimisation.
 Alloy/Mag wheel balancing.
 Pedal Brake 10. Proven design



Options:







Digital Wheel Balancing Machine

- Latest operating system software.
- Balancer has DYN/STA and different ALU balancing programs along with motorcycle balancing program.
- Balancer allows user to customize settings, for example On/Off protective cover, display accurate imbalance etc.
- Customer can feed input distance / diameter / width by clockwise / anticlockwise wheel rotation
- Calibration is easy to proceed, and the balancer quicly gets back to its precision
- The IMD display panel is resistant to scratch and erosion, having long service life.
- · The press buttons are very sturdy and will not broke even in 500,000 times





PTC-1048 PTC-1048 RFT

PREMIER RFT

Professional Automatic Tyre Changer Equipped for Run Flat Tyre

- New Automatic Tyre Changer, with Tilting pole mechanism with pneumatic lock.
- Self-centering four jaw chuck with high chuck rotation torque and powerful bead breaker.
- The machine adopts the Parkerizing bead breaker cylinder having bead breaking power 2800Kg to bead break the tyre from rim easily.
- The clamp is made of special material, strong and durable
- Specially designed to last long even under unfavorable conditions
- Rim size 10"-26": Good for large size rims
- HELPER is a device especially designed to speed up and simplify mounting and demounting operations of all type of tyres and RUN FLAT models particularly.





Fitted with HELPER device - simplify mounting and demounting operations

PTC-1048

(19)



SUPREME CHALLENGER

SUPREME : New Semi Automatic Tyre Changer with swinging arm, reliable and at the right price. Horizontal tool positioning by means of threaded hand-wheel, single action level, self-centering four jaw chuck and powerful bead breaker are some of the unique features. Simultaneously tool alignment with clamping by simple lever action. Double acting bead breaker cylinder. Specially designed to last long even under unfavourable conditions. Rim size 10"-23".

CHALLENGER: Latest Semi Automatic Tyre Changer for extra wide wheels with tilting pole mechanism for extra strength, able to work on even heavy duty 20" alloy rims without using special attachments. A single blocking lever ensures maximum speed and reliability in the work Rim Size 10"- 24".



(20)

- · Heavy duty proven technology
- Self-centering asymmetric 4-jaw chuck
- Powerful Bead-breaker 2650 Kg force
- High Chuck Rotation Torque
- Max wheel diameter 1100 mm
- Max wheel width 3"-13"

PTI-1500N

JOLLY

Fully automatic dual display intelligent tyre inflator

- Twin Display System for PRESET and PRESENT values
- Equipped with Intelligent Safety System to avoid a possible tyre explosion by an error made by the operator when presenting the data
- The euipment is preset to recognize different sizes of tyres (Cars, Buses etc.)
- Features Emergency STOP button



Optional RC-unit



NITROPOINT

Nitorgen Generator

Air consist of 78% nitrogen and 21% Oxygen. Filled with air, a tyre will permeate oxygen at a rate of 0,08 bar/month. Oxygen permeates 30% to 40% faster through a tyre wall than nitrogen.

Compressed air contains a high level of water which condenses into steam. Oxygen oxidizes the rubber in a tyre.

A tyre is a membrane. At equal partial pressure, oxygen will not permeate through the tyre wall. From experimental tests the line of the partial pressure is a function of the O₂ concentration and the tyre's pressure, points an O₂ residual percentage of 5% for car's tyres and 2/2,5% for truck's ones. These values we get with our nitrogen generators.



PNF-3000

Model Nitropoint	PNF-3000	PNF-3000A	PNF-5000
Compressed Air Input Range	87-145PSI/6-10bar /600-1000kPa	87-145PSI/6-10bar /600-1000kPa	145-217PSI/10-15bar /1000-1500kPa
Compressed Air Input Flow	500L/min(17.0cfm)	500L/min(17.0cfm)	1100L/min (39.0cfm)
Nitrogen Output	"58L/min(2.0cfm)@116PSI/ 8bar/800kPaAbsorption pressure"	"58L/min(2.0cfm)@ 116PSI/8bar/800kPa	"228L/min(8cfm) @ 116PSI /8bar/800kPaAbsorption pressure"
'Maximum Nitrogen Pressure in Tank"	102PSI/7bar/700kPa	102PSI/7bar/700kPa	145-174PSI/10-12bar/1000- 1200kPa Adjustable

21)

PTC-1045

ENDEAVOUR

Universal tyre changer suitable for handling truck and bus wheels, tubeless or tyres with ring from 14" to 26". Self-centring chuck with variable power and control devices set in one movable remote control unit for a safer and more practical work.

- · Four-iaw universal chuck with two
- rotation speed
- Maximum Wheel Diameter 1500 MM
- Maximum Wheel Width 1000 MM
- · Locking Jaws with different gripping possibilities
- Hydraulic Gear Box with pressure regulating valves
- · Working Arm with guick rotation system
- Movable remote control unit



PTC-1045

PWB-K346

Professional Automatic Tyre Balancer for Trucks & Buses

- · Specially designed for truck, bus, tractors and other specialized machineries with high precision and more dependable.
- With enlarged display monitor and human-oriented designed press button board.
- Both equipped with a lift to easily centre the wheel and to lift up to 200 kg in weight.
- Dual switch function.
- 3 ALU functions and static balancing program.
- · Self-calibration and diagnosis ensuring long life.
- With pedal brake ensuring accurate weight placing.
- Equipped with pneumatic wheel lift for big and heavy tires.
- Quick nut made with special steel thus increasing the service life.



PWB-K346

WHEEL CARE EQUIPMENT



BRAWNY





SPARK HCeV

2 Camera 3D Wheel Aligner For HCV

- SPARK HCeV wheel aligners for HCV's are designed to take measurements and perform alignments on HCV's in automotive companies, car service stations, automotive manufacturing plants, and diagnostic centers.
- The operation of the wheel aligners is based on measurements of wheel axis angle parameters by video cameras and high-precision image targets.
- Self-centering clamps fit disks up to 24" rims.
- High-precision image targets.
- Machine vision system housings are vertical pillars equipped with precision network camera units based on high-quality matrices. Data transfer from the camera units camera units based on high-quality matrices. Data transfer from the camera units to the PC is carried out over TCP/IP.
- Such a location of the machine vision system allows you to take into account individual peculiarities of a certain workplace and allows a passage.
- The 3D program interface allows you to see position and wheel alignment angles on the screen in real-time mode.
- The user-friendly interface and advanced Help and Support System allow even novices to learn how to use the wheel aligner quickly and start working.
- There are the most up-to-date mathematical algorithms used in the software that allow for the slightest image distortions made by the optical system.
- The software includes an advanced report control system.





PWL-3D50

SPARK HCeV

SPARK HCeV Software is a powerful and modern means of checking and controlling wheel alignment

Continuous data processing and measurement displaying

> Easy operating away from the monitor with colour indicators

3 D Adjustment Mode



Measurement Mode

Automatic parameter assessment of compliance with specifications

Quick access to other program modes

3D Visualization, 7 modes



Report Mode



CENTERING FUNCTION The centering function allows to accurately set the front TOE value, within the prescribed tolerance, so that the vehicle goes straight; saving on repeat jobs.

Rolling Compensation mode



Here	Adoute	ent - 30 eleve (30)	1 000 F
Toe (L)	Total Toe	Toe (R)	Centering
-0°01'	-0°05'	-0°04'	+0°02'
Camber (L) +812 -8148 -8148	Cross Camber	Camber (R)	Setback
-0°22'	-0°11'	-0°33'	+0°02'
Caster (L)	Cross Caster	Cester (R)	Thrust Angle
+4°35'	+0°13'	+4°48'	+0°04'
Oungs sine	Change parameters	Supended Wheels	View topot

HCV-WHEEL CARE EQUIPMENT

2 D Adjustment Mode



Professional 2 Camera 3D Wheel Aligner For HCV

- SHARP 3D wheel aligners for HCV's are designed to take measurements and perform alignments on HCV's in automotive companies, car service stations, automotive manufacturing plants, and diagnostic centers.
- The operation of the wheel aligners is based on measurements of wheel axis angle parameters by video cameras and high-precision image targets.
- Wireless remote control
- Self-centering clamps fit disks up to 24" rims.
- High-precision image targets.
- Special probe target allows quick and accurate measurements of truck frame position in order to determine vehicle centre line.
- Machine vision system housings are vertical pillars equipped with precision network camera units based on high-quality matrices. Data transfer from the camera units to the PC is carried out over TCP/IP.
- Such a location of the machine vision system allows you to take into account individual peculiarities of a certain workplace and allows a passage.
- The machine vision system allows automatic recognition of targets installed on vehicle wheels and the position of the probe target and high-precision recognition of their geometrical position in space.
- The 3D program interface allows you to see position and wheel alignment angles on the screen in real-time mode.



PWL-3D60T



SHARP 3D WHEEL ALIGNER INSTALLATION

2 Digital HD video cameras One camera for each wheel - determine position of high precision image targets in space











Allows quick and accurate measurements of truck frame position in order to determine the vehicle centerline



Compact and easy targets One target for each wheel Easy to handle The front panel is protected with a rubberized border No Electronic components No need to calibrate targets



Measurement of truck frame position

SHARP 3D Software is a powerful and modern means of checking and controlling wheel alignment



Select Measurement Mode







Automatic Unit with Electronic Refrigerant Scale for Refrigerant Charging, Recovery, Evacuation and Recycling -

Single Oil Single Referigerant

- Fully Automatic System for RRR
- A LCD display shows what you have done so far and what needs to be done
- Discharge of exhaust oil
- Introduction of pure oil in the A/C system
- Control of the operating pressure of the A/C system
- Automatic Vacuum and charge
- Adjustable vacuum time from 0 to 255 min.
- A build in timer stops automatically each working phase at the right time.
- Two calibrated oil bottles (one for waste oil and one for new oil) showing how much oil has been recovered and how much should be replaced
- The electronic scale allows to verify how much refregerant has been recharged and how much is still in the vessel
- Single man operation

PAC-2500-2



Automatic Unit with Electronic Refrigerant Scale for Refrigerant Charging, Recovery, Evacuation, Recycling and Internal Flush for Compressor Oil Replace - Two Oils Single Referigerant

- Suitable for EV and/or Hybrid Vehicles
- Flush Compressor Oil Recovery





OPTIMA

Super Automatic Dual Gas AC Gas Recharging, Recovery and Recycling Machine (R134A or R1234yf)

- HYBRID: AUTOCLEAN function for Hybrid and Electric Vehicle
- 7" Touch Screen Display OPTIMA can be set up according to one's own working habits by choosing among multiple options and personalizing the daily use.
- OPTIMA enjoys a design concept that allows the maximum accuracy of the refrigerent quantity, both in the recovery and the charging phase, in line with the industry standards and in in full respect of the environment.
- The 3 independent scales with 1g resolution, managing Oils and Additives, allow to operate in a safe and reliable way on Hybrid and Full Electric Vehicles.
- An only unit designed to be able to work with either R134a or R1234yf.
- Completelly Automatic Unit:
- Automatic Recovery /Recycling.
- Automatic Vacuum / Vacuum test.
- Automatic Oil discharge (with scale).
- Automatic PAG, POE and UV oil charge.
- Automatic Refrigerant Charge.
- Automatic personalized cycle (recovery-vacuum-charge).
- Flushing cycle.
- Database upgradeable with USB memory.
- Customized paper report with workshop / operator data.
- Possibility to enter customer data (plate number, chassis number, km, ...)







PHT-1500

LUXOR

Headlight Tester is a checking equipment which, given its simplicity may seem difficult to improve further. It ensures high precision of the measuring system.

- 1. Special graduated scale. 2. Adjustable projection screen
- 3. Easy height adjustment of optical chamber

Options:

- Digital lux meter for measurement of HL intensity
- · Reflex system for optical chamber with vehicle axis alignment
- Mounted on metal-wheel dollies with 3.6m long rails

PIR-0402



SPECTRUM

Computerised programmable Injector Diagnostic, Testing & Servicing with Ultrasound.

- It is advanced electromechanical product, which can clean and test Auto engine injectors by simulating engine working conditions. It can also perform cleaning on the injectors and fuel supply system on vehicle.
- Uniformity/Sprayability test: To test the uniformity of injecting amount of each injector, and to
 monitor the spraying status of each injector with the lighting of backlight.
- Leakage test: To test the sealing and dribbling conditions of injectors under system pressure.
- Injecting flow test: To check the injecting volume of the injector in fixed time of constant injection.
- Auto test: To test injectors by simulating different working conditions.
- On-vehicle cleaning: The unit is equipped with various adaptors and couplers that facilitate cleaning on the injectors on vehicle.
- Ultrasonic cleaning: (OPTIONAL) To perform simultaneous cleaning on several injectors, to remove the carbon deposits on the injector completely.



MORE EQUIPMENT

BRAKE BLEEDER

Mobile service unit for changing brake fluid (DOT 3, DOT 4 and DOT 5). Suitable for the maintenance of hydraulic clutches as well. Power supply 220 V/AC. Features:

• 220 Volt power supply

PBB-BSG1

- · Tightness test of the system
- · Adjustable operating pressure
- Connected to 5 to 12 liters of brake fluid cans
- Automatic shut-off

Delivery includes:

- 1 brake bleeder service unit BSG 01
- 1 Universal adapter
- 1 container 1 I, scaled for collecting used brake fluid
- 1 connection hose, 3 m (10 ft) long, with quick coupling
- 1 cable length 4.70 m (15.4 ft)

Universal plug which can be adapted to all brake fluid trays.





Plastic can for collecting.

KIT HOSES 8

PRX-3000 COOLANT FLUSH-N-FILL

Cooling Radiator Flush and Exchange Machine

- It cleans and replaces worn out coolant liquid of Cars, SUV and Lorries.
- Technician friendly easy to use.
- See-thru storage tubes allow visual comparison of old and new coolants





LUBE MANAGEMENT SYSTEM



LUBE



200 Kg. Drum (oil) Kit with trolley

200 Kg Drum air operated pump R=3:1, 4 wheels trolley for 200 Kg drum, ½" distributing hose-4m. Length, Oil gum with electronic meter.



Wall mounted Lubrication kit

Air operated pump R = 3:1/5:1, Oil gun with electronic meter, Hose Reel 15 meter, Oil Gun holder, Air Lubricator & Pressure regulator. (Connecting hose between pump and Hose Reel supplied model WLO1769.5)



WLO1771.2 Air lubricator and pressure regulator



WLO1779/1776 Air Operated Pump (3:1/5:1 ratio for 200 and 50 Ltr. drum)





WLO1767.1 Liter-counter gun wall holder with drop saver



Art. WLO1769.5 -M-F 1/2" 5 m.

Art. WLO1767.A Oil meter gun with presetting mode

Art. WLO1767.D Digital oil gun with flexible extremity

Oil Disposal System

80 Kg capacity tank on wheels with vacuum suction system by means of special probes (provided), and 12-liter, centrally mounted tray for recovery from below lift. Subsequent emptying of the tank is pneumatic. Weight 36,5





Hose Reel



LUBE MANAGEMENT SYSTEM



PORTO POWER

BODY JACKS : 4 & 10 Ton portable hydraulic repair kit

- Proven Technology Porto Power
- Great Power 4 or 10 Ton Pulling Power
- Includes all accessories



MSE-AD20CFM MSE-AD30CFM MSE-AD45CFM



Refrigerated Air Dryers

DRYERS

Moisture present in the compressed air is condensed by cooling it upto +2 to 4 degC. By using effective refrigeration cycle, the condeused moisture is separated out by efficient filters. The running cost is extremely low.

Available in three capacities 20/30 & 50 CFM

A must for treating condeused air.

Suggested for all models of Collision Repair System, Pneumatic Tools & Painting.





PULSAR

Universal Bench Type Collision Repair System

- Proven Technology Bench on Scissors Type Collision Repair System with vector puller
- Slim Frame; Thickness only 115mm with lift
- Drive-over bench Fastest mounting time
- Bench frame equipped with arms to lift vehicle without clamping
- Puller equiped with down-pull facility
- True vector puller: Both movement sin Horizontal directions
- Lift equiped with remote and additional controller on control panel



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PULSAR







115 mm Minimum thickness of frame with lift included

Fast and easy vehicle setup No need of ramps, vehicle directly drives on it

Lifting height with no compromises 1700 mm-Maximum lifting height of table



Dozer arm with 2 articulations and 2 sets of holes

Attachment of Puller







ZIP TRACK

Professional Floor Type Collision Repair System.

- Proven Technology Floor type Collision Repair System with Pulling Tower & Pots
- Great power Variable Tonnage Tower Type Pulling System from 7.5 to 15 tons
- Several Pulls The ability to carry out one or two simultaneous pull
- Permanent Pull Automatic locking of chain and maintenance of tension while the Ram piston, at the stroke end, is retracting for resuming the pull
- Hardly any Preparation Necessary The Pull Chain remains inside the tower
- Versatile System Can do small, medium & major damages
- 360 degree pulling
- Progressive Investment Another bay can be added at very small cost
- Rapid Setup Fast set up time of < 15 min
- Zip Truck(PZT-6090) Powerful Pulling System for HCVs also available

4 WD Kit

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- Universal Achoring device
- For 4WD vehicles (with chassis)



PZT-6040



Floor Type Collision Repair System on Rails

BODY SHOP EQUIPMENT



Universal 3D Electronic Diagnostic and Measuring System

- SPYDER is the image based universal 3-dimensional (3D) simultaneous multipoint electronic measuring system par excellence for diagnosis and repair. Easy and fast to use. Reliable, extremely precise and repetitive results on all test points.
- OPERATING CONVENIENCE: The system allows to measure easily both lower body and upper body (such as doors and windows). No any additional accessories or adaptors are required for upper-body measurements. All measurements are made only by targets magnetically held at the point of measurement. No inconvenient rulers and tape-measurers.
- HIGH PRODUCTIVITY: The measuring part of the system consists of only two units: targets and cross beam equipped with 2-cameras. There are no any complicated mechanical constructions, no gauges, no sensors, etc. Cameras track the position of the targets and system immediately indicates exact coordinates of measured points and its deviations relatively to database. Thus the measurement is easily possible while active pulling.

 MEASUREMENT & ANALYSIS: Easy in work software with full on-screen guidance helps to do all the measurements, print and

save an order as easy as possible. Results can be mailed or printed at any stage of work. All necessary information during pulling including pull amount and pull direction is continously updated and displayed on the screen in real time.

- Measuring system SYPDER Data can be used in the following cases:
- For measurements during the process of collision repair.
- When it's impossible to detect visually the condition of car body and it needs a documental approval.



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BODY SHOP EQUIPMENT



TELESCOPIC MEASURING GAUGE

Telescopic Measuring Gauge



- Telescopic Measuring System is a cost effective measuring and diagnosis system for damaged vehicle.
- High Precision Measuring System is designed and manufactured to measure defect with precision and advance convenience in the accident vehicles repair.
- It solved the problem of the big measures accumulated error, data conversions, complicated proceses, bulky and heavy measuring equipment.
- Telescopic measuring system is a aluminum retractable measure system
- Time saving tool for doing comparative mesurements (200~2250mm)





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BODY SHOP EQUIPMENT





Professional Spot Welding Machine with Air cooling

- · Spot Welding Machine with function of spot, spotter and dent puller
- Sophisticated computerised 4-DIMENSIONAL control system
- Compact, light pneumatic welding gun with electrode force of 190 Kg.
- Highly flexible welding cables with a length of 2.2 m.
- Spotter function for welding and traction of all particular studs, nails, rivets, washers, bolts
- Single spot welding on closed parts or areas of difficult access
- Pulling of dented area using single spot welding and hammer tool
- Can spot on painted surface
- 6.5 KA welding power
- Includes Basic & Standard set of electrodes
- Optional:
- Advanced Electrode Set









4 Dimensional Control

WELD SHOP EQUIPMENT

PSW-6500



Advanced Spot Welding Machine



PUNTO STAR

Punto Star Inverter Spot Welding Machine

- Spot Welding Machine with Inverter technology
- Inverter System with variable frequency
- Low maintenance cost, Spot Welding Gun with transformer on board, HT cable not required
- Liquid cooling system, Gun, Arms, increasing duty cycle
- Three Phase power supply
- Great Welding Power
- Big electrode force
- Welding with constant current regulation
- Welding arms of Carbon
- Carbon Carter
- Super efficient machine, does the job of 2-3 machines
- Maximize output, generates 13000 Amps from 16 Amps only
- Highest quality weld with mechanical & aesthetical features equal to those made in the automotive production
- Sophisticated computerised 4 DIMENSIONAL control system

OPTIONAL:

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 Independent unit TOP CAR for spotter welding and dent Pulling



PSW-1345



WELD SHOP EQUIPMENT



PLASMA - S

Industrial Plasma Cutting Machine

- Advanced IGBT Cellular (or IGBT Module) Technology, the core adopts advanced IGBT inverter device.
- Eeasy to handle and operate, this system is suitable for cutting thin materials at a high speed.
- · Intelligent Protection, over loading or over heating
- Pilot Arc Start System, smooth arc starting with HF control.
- Digital meter, to preset and display cutting current.
- Wide Input Range, up to 20% input power fluctuation.
- It is projected for metal overlapped structure cutting, is able to cut the first metal sheet without damaging the second closer one, even in a few millimeters distance.
- Low input energy, Steady and Precise Smooth Cuts.
- Competitive Cutting Thickness, recommended clean & max cut thickness: 15mm & 25mm
- Rapid Arc Strike, Quality narrow cutting and excellent travel speed.



PMW-2040iS

Advanced Ultra Thin Sheet Inverter MIG-MAG Welding Machine

- Rugged, CONSISTENT and RELIABLE PERFORMANCE.
- Professional Welder with separate Wire Feeder.
- Advanced Ultra Thin Steel MIG Welding Machine especially for Car Body Shops.
- Heavy duty welding of thin sheets (0.6mm carbon steel) without burn-through.
- Spot welding 0.4mm carbon steel sheet does not burn through.
- Advanced IGBT Technology.
- Infinitive Voltage Control, optimized starting performance.
- Intelligent Protection, over loading or over heating.
- Exclusive Circuit Design, reduces maintenance cost and extends machine life.
- Digital dislay, to preset and display welding current.
- Inductance Control, for arc stability and spatter control.
- Unique internal geometry for air cooled torch enabling a cooler grip with maximum mechanical strength.
- Wire feeder can accommodate standard 15kg. spool.

WELD SHOP EQUIPMENT

MAXI-MIG Professional Series

With Separate Wire Feeder



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PRECISION



Lights >1000 LUX

Hinged glass panels for easy access to lights. Angled fixtures provide even distribution of light, eliminating shadows and glare without altering colours.



Spray Booth: Perfection

Ceiling Filters

Full filtetred ceiling: four element rack aloows fast and easy servicing; self ceiling panels elimnate the need for additional gaskets.

Roof Filter life 1200 Hrs. approx.

Plenum

Largest Volume Plenum with Biggest Height of 0.6 mts ensuring even air supply.

Unique Heat Exchanger

Enables the desired temperature to be quickly reached;

Stainless steel material for heat exchanger in teardrop shape allows more efficient heat transfer ensuring diesel fuel economy and rust free operation ensures longer roof filter life.

Hinges

Heavy duty steel hinges for easy vertical and horizontal door adjustments.

Main Door Locking System

Unique closing system, based on two movements with internal rods, which guarantees smooth and positive locking of the doors







Metal Basement (Optional) If a concrete exhaust pit can not be provided for, a raised metal base is available with self laveling Omega Stands. Sheet Metal Surface Treatment, Pre-coated Sheet Metal

Heat galvanization

Phosphate coating

Anti-rust primer coating





Protective polythene film.



PAINT SHOP TECHNOLOGY UPDATE

tion in Every Detail



ires

X

Variable Air Velocity Control

Dampers in Air Inlet and Exhaust control the Air Velocity inside the cabin a simpler system to Frequency Inverter



Aluminium extruded louvers with Nylon gears for rust free air rinlet driven by Damper Motor.



Reverse Blade Cetrifugal Turbine Direct Mounted Low energy consumption, constant air flow and reliability, no belts or pulleys requiring maintenance



Solid and functional wall panel assembly Self-centering tongue and groove panels guarantee airtight fit and eliminate unsightly joint covers that don't seal tightly.



Wiring: The electrical wiring is part of our standard supply and is factory prepared.



Intake Pre-Filters

Exclusively designed heat-welded pocket-type; reusable frames; extralarge filtering surface



OPTIONAL: Motorized Extraction Unit with velocity control and Pocket Filters

Ensures constant pressure inside the booth. Remove paint particles from outgoing Air. keep impeller clean; increasing efficiency





SPRAYMATE

Series of Spray & Bake booth from PRECISION are of high-end type with regard to both aesthetic and technical features. These are specially designed for automobile repair shops and garages for heavy duty work.

Options : Spraymate is available with many options, i.e.

- Outside precoated wall panels Inspection windows in safety glass on wall panels
- Illumination on wall panels Advanced safety kit Metal basement 40cm thick Side wall

of folding doors • External and internal size variations • Motorised extraction unit with velocity control system (Double motor system).

Wide variations in designs are available for suitability to any other specialised requirement, like for a vehicle production line, Bus and Truck painting etc.

SPRAY- MATE	Int. Ht mm	Int. Width mm	Int. Length mm	Wa ll. thickness mm	Door width mm	Door height mm	Ext.Ht (Wt.B.) mm	Ext.Ht (W.B.) mm	Ext. width mm	Ext. Iength mm	Motor Power HP	Light Power W	Thermic Power(App) Kcal	Air Flow m'/h
6M	2500	3790	6000	50	2880	2420	3100	3430	3890	6110	7.5	1152	100000	21500
7M	2500	3790	7000	50	2880	2420	3100	3430	3890	7110	7.5	1152	117000	21500

Detailed specifications of standard workshop booths & custom designed industrial booths on request. Specification available on request.

Economical "BUSINESS" models also available.

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PYRAMID 8

Red Light Short Wave Infrared Heater

- RED LIGHT SHORT WAVE" Infrared lamp with single automatic control panel unit
- Advanced paint curing technology
- Short wave infra red technology which heats the job bottom to top to eliminate the moisture inside and outside which results quick drying time and ensures long life for painted surface.
- · Very practical suitable for rapid and perfect drying
- Using special short wave quartz glass infra-red tube as the heat source with short light-wave which offers powerful penetratability
- Automatic time control (range of 0 60 minutes programmable) and real-time display
- Short drying time to ensure high efficiency and high quality of painted surface
- Bracket is made of metal alloy with beautiful appearance and reliable structure
- Lamp back cover is made of stainless steel with mirror-like surface and good reflection effect with powerful heat- concentration ability
- · Eco-Friendly and Non Polluting
- Customer can save upto 70 % of fuel cost
- This unit can be used in any Paint Booth







PBB-0900S PBB-0900T

ATD

- Air Tube Drying System (ATD) installed inside the Paint Booth speeds up drying times of waterborne basecoat and HS clear coats with 30 to 50%
- Speeds up drying times of 2 component paints by minimally 30%
- Increase of productivity reduction in energy costs
- Enhancement of the drying process extra comfort for the sprayer
- Displacing 5000 m³/h only consuming 1,1 Kw for each side
- Simply the best investment a body shop can make nowadays to increase profitability







ATD SYSTEM



AIR HANDLING SYSTEM ON TOP PBB-0900S



AIR HANDLING SYSTEM ON SIDES PBB-0900S

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10.5T S PT 13.5T S PT

TUNNEL

Tunnel Booth for Large Body shop (150 cars +)/ Production Lines

- Size 10.5 (L) x 3.9 (W)x 2.70 (H) meter with extra internal three folding dividing doors.
- The 10.5 meter booth cabin is divided in two parts (6 meter & 4.5 meter).
- Two air handling units (one standard AHU with baking the other AHU without baking.
- Double wall (tongue & groove) with insulation.
- Reverse blade fan.
- Pit and metal base versions.

3 S MB 3 S PT

Component Booth for small jobs / 2-3 wheeler painting.

- Component Spray & Bake Booth model 3SMB & 3SPT.
- No need to operate bigger booth.
- Save fuel & electricity.
- Reverse blade fan.
- Pit and metal base versions.
- 3HP Motor. Dimensions : 3m (L) x 2.5m (W) x 2.5m (H)
- Extremely useful as 70% of the paint jobs are panels like fenders etc.

JUNIOR



3 S MB

PMR-2525

- Precision "Mixmate" paint mixing rooms are designed to provide a clean, well-illuminated, well-ventilated area for paint mixing operation.
- Dimensions: Mixmate :
- 2.5m (L) x 2.5m (W) x 2.6m (H) (approx.)





PPS-5320D

PREP BAYS

The Prep Station is designed to remove dust from the working area all while avoiding dispersal throughout your shop area. It can either exhaust filtered air to the outside or it can recycle filtered air back into your building's interior. The Prep Station exhaust unit will extract up to 10,000 CFM of air from your shop area. Be aware that this powerful air exhaust may create negative air pressure thus requiring the need for an Air Make-up to counter this effect.





Optional: Curtains and Frame work for curtains



PREP BAYS

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Installations





Axi-dent panel repair system is a breakthrough method of autobody panel repair which

reduces repair times to a fraction of what they would be using conventional method. By working from the outside, it avoids the strip and refit process and minimises the need for replacement panels. It permits the repair and reshaping for welded and box type metal sections from the outside, thus making full recovery easier and eliminating the need to replace damaged parts. Suitable for golf ball size dent to a side panel dent on a van, Axi-dent kit includes four main 'breakthrough' components.

Thanks to its accessories, which have been specifically designed to speed up the work of body repairers, it ensures a quick return on investment costs as it drastically reduces straightening and metal-working times as well as the use of consumables materials.

Its Strong Points are:

- Recovery of original steel panels
- Substantial reduction in repair times.
- Reduction in the cost of the materials used (Spare parts/ filter/ paint)
- Accessories designed for last and effective use.
- Tenacious bit non invasive spot welding on panels made of any steel alloy Very low investment

System Set Includes

Trolley, Dent lifter complete with crossbar (1000 mm), extra long crossbar (optional), 50 wiggly wires, Power Lift pulling lever, Long electrode with sliding weight, 50 pcs welding washers twisted, Hand puller, box with electrodes and consumables





AXI-DENT

Benefits to car owner & work provider

Reduces panel replacement costs Borderline write offs become economical repairs • Speeds up repair process and the vehicle is returned to the owner quicker • Keeps vehicle original by maintaining vehicle manufacturers welds and seams • Minimises disturbance of corrosion protection • Reduces 'rattle & leak' problems after repair • No waiting for parts and the job is started immediately • Keeping the repair local minimises colour blending problems • Environmently friendly • Competitive, high quality, fast turn around repairs



Optional accessories

- Pull claw with 9 hooks
- Side hammer for pull claw
- Wiggly wires packages
- Radio wireless control unit with magnetic back



Radio Wireless Remote

Advantage

Original estimate 4 hour repair plus 2 hour strip and refit !!!. Styling lines out ready for a skim of filler under 20 minutes and no strip and refit !!! Original estimate 4 hour repair plus 2 hour strip and refit !!!. Styling lines out ready for a skim of filler under 20 minutes and no strip and refit !!!

Simplicity in use



QUICK REPAIR LINE

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SPOTTER



SPOTTER the Stud Welder and Dent Puller is with a 2800A welding power and Air Cooling.

- The machine is controlled by the sophisticated MICRO DIGITAL 5 digital microprocessor control.
- SPOTTER permits the repair and reshaping for welded and box type metal sections from the outside, making full recovery easier and eliminating the need to replace damaged parts.
- Recovery of original steel panels.
- Substential reduction in repair times.
- Reduction in the cost of the material used (Spare parts / Filler / Paint).
- Keeps vehicle original by maintaining vehicle manufacturers welds and seams.
- Minimizes disturbance of corrosion protection.



Dent Pulling With Spotter

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Carbon Shrinking With Spotter



PYRAMID 3 **PYRAMID**

Pvramid: Infrared systems emit different types of waves: long, medium and short. The main difference between the three types lays in the penetration depth of the paint cover. Short wave emissions are the ones that most penetrates through the paint surface. "Pyramid" uses this type of wave, since it reduces the drying time and the power consumption.

Profitability

Most of the repairs realised in body shops are due to small and medium-size damages, mainly on front, back and lateral panels. Traditionally the spray booth is used to dry those small surfaces of the body, generating "bottle neck" problems during a great work flow situation.

Unlike the spray booths, infrared dryers prove to be more efficient on small body surface since they allow direct heat application on the treated piece.

Advantages

- Does not generate noise or dust
- Reduced risk of defects when used in
- preparation stage
- Traditional system takes the same time &
- energy in a small repair than in complete body
- Ideal for small damage repair •
- Time saving
- Power saving
- Best drying quality
- Drying and paint hardening
- High efficiency on water base paintings

- PCU-management
- 3 x 1000 W infrared tubes
- Digital control panel
- Selection of memorised curing procedure
- 2 timers and emitting power regulator grant excellent results.





LONG WAVE



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PST-V3RN

SPEED TESTER

Speed tester velo for 2/3 wheels, for light wheels and quad

Measurement data

- Speed test (Km/h)
- Distance run during the test (m)
- Motor revolutions
- Dissipated power (Watt)
- Theory power (Watt)
- Slip time since the beginning of the test (s)
- Braked roller temperature (°C)



TECHNICAL DATA

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Maximum load per wheel: 10000 N Wheel minimum diameter: 8" Rollers lenght(2/4): 900/1990mm Rollers axle base: 320mm Aerodinamic resistance: Eddy current Test maximum speed: 80 Km/h Power supply: 230 Vac

TESTLINE EQUIPMENT

PTL-9010

TEST LANE







Car / LCV Integrated Inspection Test Line

- Three Component New generation Heavy Duty Car/LCV Test Line WITH PHASE SHIFT (THETA) METHOD
- Absolutely cutting edge technology for SUSPENSION TESTERS using invertor technology and shift phase method offering much better results.
- Because of using new generation SUSPENSION TESTING TECHNOLOGY; each wheel is applied with independent vibration. Since each wheel can be independently vibrated at will with selected frequency it opens a new field of simple yet efficient MANUAL NOISE TESTING..
- The NOISE TESTING feature can to a great extent to eliminate ROAD TEST (OPTIONAL FEATURE).
- Minimum use of space and large size side slip tester platform for easy vehicle entry.
- · These features will increase efficiency and turn around of vehicle.



Suspension Tester



Roller Brake Tester Side Slip Tester

Platform Position Sensor

FREQUENCY INVERTER SYSETM INTRODUCTION The Fly Wheel Ends Integration of Inverter





On a standard suspension tester, we usually find a flywheel combined with an engine:

The flywheel allows to make the platform excitation frequency vary. It is is directly influenced and altered by the vehicle weight that changes at each new test.

The new system with inverter allows to sweep the whole amplitude without being impacted by the vehicle weight. It's resonant frequencies free, decreases the measurement duration time, and reduces the overall wear of the mechanical part by completely removing the flywheel.

TESTLINE EQUIPMENT





SUPERWASH



Automatic Car Wash System Highlights:

- Saving in TIME...
- Saving in WATER...
- Saving in ELECTRICITY...
- Saving in SHAMPOO...
- Saving in MANPOWER...

Advantages:

- Manpower related:
- Washing Quality:
- Customer satisfaction:



CAR TOP WASH

Just 5-7 mins is required for complete wash Just 120 Its is required for complete wash Just 15-20 ml is required for complete wash

- Just 15-20 ml is required for complete wash
- About 4-5 manpower is reduced

Dependency reduced; absentism issues reduced; efficiency up; less human errors

Consistant quality; quicker; no paint damage Complaints down; confidence level up; CSI ratings better



CAR UNDER WASH



HIGHER PRESSURE PUMP





UNDER-WASH



PCW-3011

CAR UNDER WASH - PIT VERSION

Automatic Car Under-Wash System Highlights:

- Saving in TIME...
- Saving in WATER...
- Saving in ELECTRICITY...
- Saving in SHAMPOO...
- Saving in MANPOWER...

Advantages:

- Manpower related:
- Washing Quality:
- Customer satisfaction:



PCW-3012 CAR UNDER WASH - RAMP VERSION

Dependency reduced; absentism issues reduced; efficiency up; less human errors

Consistant quality; quicker; no paint damage

Complaints down; confidence level up; CSI ratings better





CAR UNDER WASH

HIGHER PRESSURE PUMP













- Vertical burner with high thermal efficiency steel coil.
- Auxiliary motor for burner.

Industrial Heavy Duty Diesel Steam Cleaner

The "Major" steamer is a revolutionary new and environmentally friendly steam machine. Using the latest in steam technology, the "Major" can quickly and effectively remove dirt, stains, grease, odors and other contaminants from a variety of surfaces.

- Reduce water and chemical consumption
- Clean hard to reach nooks and crannies
- Deodorize and sterilize surfaces
- Eliminate waste-water
- It does not leave residuals at the end of cleaning task
- Quiet, easy to operate and maintain, user friendly

Salient features:



User-friendly control panel

Double pipe Gasoil Pump: It makes the gasoil flowing back to the tank, avoiding the gasoil flowing inside the pump during by-pass phase (single tube pump operation): this allows to obtain low temperatures inside the pump avoiding greasy deposit formation that would block the pump.

Low Fuel Lamp: LED flashing, connected to a level probe, indicates lack of gasoil inside the tank. It shuts down the burner avoiding dry operation of the gasoil pump.

Pressure Gauge: It allows the visual control of the machine operating pressure.



WASHER



APOLLO

Heavy Duty Vacuum Cleaner

- Precision professional wet and dry Vacuum Cleaner is specially designed to provide a practical effective answer to cleaning requirement in house hold as well as in working and instititinal places.
- With its 70-litre container, the dual-motor Classic wet and dry vacuum cleaner can vacuum large quantities of wet and coarse dirt
- 2 powerful turbines ensure outstanding suction power
- The strong suction power ensures excellent cleaning results and utmost efficiency.
- · Extremely mobile on all surfaces thanks to the robust chassis and large wheels.
- The standard push handle ensures convenient transport.



PDE - 2010

SPEEDY-1 Dry Sanding Dust Extraction Unit for 2 People operation Simultaneously

- Heavy duty, Low noise, 1200W motors, and the dust extraction capacity is 3 cbm/min. Equipped with the bag filter. and the dual-filters effect is excellent.
- Ergonomic trolley for the extraction and filtration of dry sanding dust with storage.
- Soft hose, high flexibility, low temperature resistant, corrosive proof and anti-distortion
- Device for automatic on/off switching of the engine directly controlled by the sanders.
- The core of sander is made of special alloy metal material, it • ensure to high temperature resistant, corrosive proof and hard to abrade. Low air consumption is only 6 bar
- Electronic and pneumatic operation controlled by IC automatic system. Automatically turn off the system in 5-7 second to ensure the long working life,



CLEANING SOLUTIONS

TOOLS

from **EPRECISION**

OFFERING WORLD CLASS AUTOMOTIVE TOOLS

AIR IMPACT WRENCH





Air Ratchets



Air Ratchets



1/2 " HEAVY DUTY AIR IMPACT WRENCH

Twin hammer mechanism for extra power and durability Ratings of continuous use on the heaviest wrench jobs Reverse with full power to remove fasteners easily

Free speed:8500 rpm Air inlet:1/4" Bolt capacity:1/2" Air pressure:90psi Torque:0~640 Nm Max torque:850 Nm Net weight:1.9 kg

1/2" HEAVY DUTY AIR IMPACT WRENCH

Twin hammer mechanism for extra power and durability Ratings of continuous use on the heaviest wrench jobs Reverse with full power to remove fasteners easily

Free speed:9000 rpm Air inlet:1/4" Bolt capacity:1/2" Air pressure:90 psi Torque:881 Nm / 600 ft-lb Max torque:1139 Nm /840 ft-lb Net weight:2.2 kg

1/2" AIR RATCHET WRENCH (HEAVY DUTY)

In line with air pressure torque and reciprocating hand operation for fastening and loosening the various size of bolts. Square drive, inches ½ inch Bolt Size, Inches - 3/8 inch Recommended Air pressure, Psi/KPa - 90/630 Air Consumption, Free Speed, SCFM (Rpm) - 18.4 (150) Max. Torque, Kg-m - 9.7 Air Inlet Thread Size, Inches - 1/4 inch Recommended Hose Size, inches - ½ inch Overall Length, inches - 10 inch Weight, Ibs. (kg) - 70 (1.25)

3/8" AIR RATCHET WRENCH (HEAVY DUTY)

In line with air pressure torque and reciprocating hand operation for fastening and loosening the various size of bolts.

Sqaure drive, inches 3/8 inch Bolt Size, Inches - 3/8 inch Recommended Air pressure, Psi/kPa - 90/630 Air Consumption, Free Speed, SCFM (Rpm) - 18.4 (150) Max. Torque, 94.9 Nm / 70 ftbb Air Inlet Thread Size, Inches - 1/4 inch Recommended Hose Size, inches - 1/4 inch Overall Length, inches - 10 inch Weight, (kg) - (1.1)

PNEUMATIC TOOLS

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TOOLS

Air Cutting Tools



DRILLS





Air Hammer



RECIPROCATING PNEUMATI	C SAW
Description Recommended Air Pressure, PSIG (kPa) Air Consumption, Free Speed, CFM (SCFM) [I/min] Slade Strokes Per Minute Air Inlet Thread Size Recommended Hose Size, inches (mm) Dverall Length, inches (mm)	High Speed 90 (620) 1.0 (7) [28.3] 94.0 9,000 - 10,000 1/4"-18NPT 5/16 (8) ID Min. 9.25 (235)
AIR DRILL	
Drill Description Chuck Range, Diameter, inches (mm) Horsepower ree Speed, RPM Sound Level, Free Speed, dBA Sound Level, Working, dBA Spindle Thread Torque Range, in, Ib. (N.m) Air Intet Thread Size Recommended Hose Size, inches (mm) Recommended Hose Size, PSIG (kPa)	3/8" Reversible 1/16"- 3/8" 4.0 (28.5)[112.8] 1800 105 3/8" 24 UNF 0-35 (0-4.2) 1/4" 18 NPT 3/8 (10) ID Min.

AIR SPOT DRILL

Spotweld Drill
5/6 (8) D
1/4" 25/64"
90 (620)
8.4 (60) [283]
1.800
84
1/4" - 18 NPT
3/8 (10)
7 0 (200)
2.00 (1.40)
S.05 (1.40)
3F 3023-0

AIR HAMMER KIT SET

Quick lock-release chuck for easy and fast operation Ideal for chipping, cutting and finishing of metal surface

Description Recommended Air Pressure, PSIG (kPa) Air Consumption, Free Speed, CFM (SCFM) Free Speed Air Inlet Thread Size Air Hammer 90 (620) 4 (28) 3200 BMP 1/4" - 18 NPT

PNEUMATIC TOOLS

60

TOOLS

Body Shop Tools





Description	4" Compact
Recommended Air Pressure, PSIG (kPa)	Grinder
Air Consumption, Free Speed, CFM (SCFM)	90 (620)
[l/min]	3.3 (23)
Air Consumption, Working, CFM (SCFM) [I/min]	3.2 (23)
Free Speed	11,000 RMP
Sound Level, Free Speed, dBA	87
Disk Size, Diameter, inches (mm)	41⁄2 (102)
Air Inlet Thread Size	1/4" - 18 NPT
Recommended Hose Size, inches	3/8
Overal Length, inches	9"

7"HEAVY DUTY ANGLE POLISHER		
Description	7" Angle	
Recommended Air Pressure, PSIG (kPa)	90 (620)	
Air Consumption, Free Speed, CFM	5.3	
Horsepower	1	
Free Speed RPM	2,500	
Sound Level, Free Speed, dBa	85	
Pad/Disk Size, Diameter, inches (mm)	7 (178)	
Spindle Thread, inches	5/8"- 11UNC	
Air Inlet Thread Size	1/4" -18 NPT	
Recommended Hose Size, inches (mm)	3/8 (10) ID min.	
Overall Length, inches (mm)	13"(330)	





PFS-150SV

1

PFP-180X

Description Recommended Air Pressure, PSIG (kPa) Air Consumption, Free Speed, CFM (SCFM) Free Speed RPM Spindle Thread Pad/Disk Size, Diameter, inches (mm) Air Inlet Thread Size Recommended Hose Size, inches Vacuum Hose included (length) Vacuum Dust Bag included (SP-PFD-0004B) Backing Pad included (inches) (SP-PFS-600AV)

FEELER

6" Palm Sander 90 (620) 2.5 (18) 10,000 5/16"-18 UNF 6 (152) 1/4"-18 NPT 1/4" 60" 1Pcs. 6"

PNEUMATIC TOOLS



PAINT GUNS

Paint Guns		HVLP PRIMER SPRAY GUN 1.8
RAZOR 288573		GUN, GRACO RAZOR, USA, HVLP-1.8 Ideal for Primer, High Viscosity • Offers exceptional atomization rate • Provides generous material flow that helps the job done quickly • Ergonomic blue anodized gun handle, lightweight and low trigger pull for for ultimate painter comfort • The RAZOR has 100% stainless steel fluid passages and stainless steel needle and nozzle.
-		HVLP PRIMER SPRAY GUN 1.4
亦	RAZOR 288569	 GUN, GRACO RAZOR, USA, HVLP-1.4 Ideal for Base and Clear Coats The RAZOR has 100% stainless steel fluid passages and stainless steel needle and nozzle. Nickel-plated finish allows for easy cleaning. Gravity cup included.
24		HVLP PRIMER SPRAY GUN 1.3
	RAZOR 288568	GUN, GRACO RAZOR, USA, HVLP-1.3 Ideal for Base and Clear Coats • Nickel-plated finish allows for easy cleaning. • Gravity cup included.
- The		HVLP PRIMER SPRAY GUN 1.3
71.	RAZOR 289394	 GUN, GRACO RAZOR, USA, HVLP-1.3 Ideal for Waterborne clear and Base coats. Premium Performance & Quality Extremely smooth spray pattern for superior finishes Capable of atomizing a broad range of coatings from primer, base, to clear Ergonomic gun handle, lightweight, and low trigger pull for ultimate painter comfort The RAZOR has 100% stainless steel fluid passages and stainless steel needle and nozzle. Gravity cup included.
		SIDE CUP GRAVITY GUN - HVLP 1.2
F	24J599	 SIDE CUP GRAVITY FEED GUN, GRACO USA, HVLP-1.2 Ideal for Base and Clear Coats Lightweight, Ergonomic Air Spray Gun Easily spray small spaces and corners with the Finex gravity feed gun with swivel cup The Finex Side Cup Gun has a cup that swivels – ideal for end users spraying in tight spaces. Aluminum cup is included with the gun

PNEUMATIC TOOLS







We are also proud to introduce the new training facility - **TECHNICARE** - Popular by now with all our customers, technicare embodies our professionalism in assisting wherever necessary. Once customers have purchased a PRECISION product they become part of a large family of users who, by choosing a high quality product, have immediate access to a professional service able to answer promptly to their needs.

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- Low rise tyre shop Lift

Other Equipments

- All kinds of lifts.
- Lube management systems

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- Paint booth Management
- Painting; in co-ordination with paint companies
- Moisture Seperator; Various types
- Paint Guns

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- Collision repair using Floor System, or using Bench
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- Use of Plasma cutting system

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- Measurement techniques using Mechanical Measurement system
- Measurement techniques using Electronic Measurement system

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