



the ultimate range of  
wheel repair solutions

**VIXEN**  
Surface Treatments





Vixen is a market leader in the design, manufacture and production of machinery and equipment for degreasing, blast cleaning and alloy wheel refurbishment.

## Welcome

Vixen's experience, knowledge and versatility combined with the desire to reduce costs, ensures that the machines from our diverse range are constantly chosen by our clients as the right solution.

Our range of wheel repair equipment provides the essential requirements to the growing alloy wheel refurbishment market. The Vixen Aqua Wheelblaster and the Vixen Vertical Wheel Lathe work together harmoniously to refurbish alloy wheels to a standard that is as good as new... quickly.

This brochure provides details of all our wheel repair machines along with extras that ensure the seamless wheel refurbishment in any automotive workshop.

Aftersales care is a key element of our organisation and we have a dedicated team waiting to respond to any queries that customers may have. The team are well versed in the finer details of Vixen's products and will be able to advise new customers on the best process.

“Remember, when you purchase a machine from Vixen, we show and train you how to use the machine on your premises as part of the package.”



*Customers are welcome to examine our machines which are on display in Vixen's modern factory showroom.*

Vixen's wheel refurbishment range is used in numerous BMW facilities, Mercedes, Bentley and many more independent wheel refurbishment shops. Their decision to buy our equipment has been influenced not only by the quality of our machines, but their reputation for reliability and the value that they represent.





# THE COMPLETE WHEEL REFURBISHMENT RANGE



## diamond VERTICAL ALLOY WHEEL LATHE

The Vixen Wheel Lathe uses state of the art technology scanning the original wheel in under 30 seconds and going on to create a top-quality finish, removing kerb damage or imperfections to reproduce the original diamond cut finish.

The machine is very compact having only a 2m x 2m footprint and has a cast bed, making the system extremely rigid.

A Windows operating system is used through an easy to use touch screen panel interface which requires no external computer link and all wheel profiles can be saved directly into its memory if required.



## THE VIXEN WHEEL STRAIGHTENER RANGE

The Vixen Wheel Straightener can repair buckled wheels and remove flat spots quickly and easily, preventing the need for customers to have to purchase a brand new replacement wheel. Its compact design ensures that it fits easily into any workspace. A large machining capacity enables suitability for any wheel size from 10-26 inches.



## AQUA WHEELBLASTER

Custom designed exclusively for the smart alloy wheel repair market, the Vixen Aqua Wheelblaster features wetblasting technology that prepares wheels for repainting and lacquering. The machine blasts and washes in one compact cabinet combining all 6 stages of manual preparation of alloy wheels into one application.



# diamond

## VERTICAL ALLOY WHEEL LATHE



With the rising number of cars coming complete with diamond cut alloy wheels as standard, the demand for diamond cut alloy wheel repair is rapidly growing. The Vixen Wheel Lathe uses state of the art technology to create a top quality finish, removing any kerb damage or imperfections and can reproduce the original diamond cut finish. The Vertical Compact Alloy Wheel Lathe is the perfect addition to any workshop, with a footprint of only 2mx2m, weighs only 1800 kilos, and has the ability to laser scan wheels in less than 30 seconds. Featuring a Windows operating system, this Vertical Wheel Lathe is extremely easy to operate and requires very little training.

All Vixen engineers and distributors are trained on how to use the machine and as part of any purchase you will receive at least one day training to use the Vertical Wheel Lathe, as well as our online instruction video for easy referral.

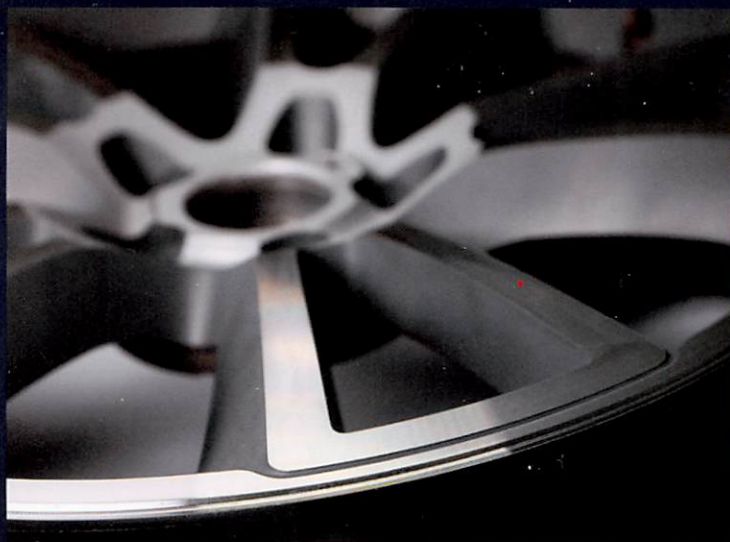
the game changer



# A Revolution in 'Smart' Alloy Wheel Repair

VIXEN

The Vertical Wheel Lathe uses a Windows operating system through a touch screen control panel. The Windows operating system is familiar to most operators so requires little to no training and is easy to use. The lathe features an LCD touch screen control panel which is very user friendly for the operator to understand. This results in a quicker overall cutting time as once the wheel has been mapped, the damage is corrected on the touch screen and a simple press of a button initiates the machining process. To repeat the machining process, if required, press the start button again until the wheel has been machined sufficiently to remove all damage. This machine requires no external computer and wheel profiles can be saved in the memory if required.



One of the unique features of the Vixen Wheel Lathe is the laser probe system which maps the original wheel profile. This replaces the typical mechanical probing tool and enables a wheel profile to be mapped in under a minute. Once mapped, any small adjustments or smoothing out is made on the touch screen which is very easy to operate. Once the mapping and rectification is complete on the screen, the cutting tool is brought into position and the machining process can begin. This tool is designed specifically to cut diamond alloy wheels with high precision and accuracy. The cutting tool is supplied by Vixen for the machines. Replacements are available directly from Vixen.

One of the biggest advantages of the Vertical Wheel Lathe is the ease of loading a wheel onto the horizontal platform/chuck. To the front of the lathe is a pneumatic vertical opening door complete with viewing window. The pneumatic door slides down for opening and gives a large loading area which is easily accessed when holding an alloy wheel. The machine bed of the Vixen Lathe is cast iron which gives total rigidity and therefore accuracy when cutting a wheel. The horizontal chuck is centrally driven so the wheel can be tightened from any of the locking tool ports and has a wheel capacity of 35" diameter. When probing the wheel, the wheel can be moved slowly by hand to follow curved spokes in the wheels etc.

## Features



- Windows operating system
- Scanning of original wheel in under 30 seconds
- Easy to use, user friendly LCD touch screen
- Scanning of original wheel made quick and easy with laser probing technology
- Can process wheels up to 35" in diameter
- Pneumatic vertical door
- Single cast machine bed for greater stability
- Vertical chuck with enhanced turning performance giving greater accuracy than a horizontal lathe
- UK technical support
- Inclusive training on site





# AQUA WHEELBLASTER

ALLOY WHEEL FINISHING



The Vixen Aqua Wheelblaster machine was designed specifically for the alloy wheel refurbishment market. This machine uses wetblasting technology to simultaneously blast, wash and prepare alloy wheels after kerb damage, in one quick and simple step, ready for repair, painting and lacquering. The Aqua Wheelblaster combines the standard six stage process of manually preparing alloy wheels into one application. It can reduce application times from one hour per wheel to just three minutes, in one compact cabinet.



The wetblasting process uses water mixed with abrasive to blast the wheel inside the machine to create an etched finish, ready for the next stage of the repairing process. The use of water in the application ensures that no media is impregnated onto the alloy wheel. The water also provides a washing action and does not strip the wheel back to bare metal. Another benefit of the wetblasting process is it prolongs media life due to the cushioning of the water, preventing less media breakdown.

The wetblasting method is a dust free process which enables a used wheel to be cleaned and etched ready for repainting after the repair has taken place. The Aqua Wheelblaster does not require a specific room for siting, eliminates the risk of dust and combines all of the preparation processes in one cabinet, ideal for any work place. Vixen's Aqua Wheelblaster is designed exclusively for the operator working in the automotive industry.

## X6 Processes all in one machine



## Diamond cut alloy wheels

With diamond cut alloy wheel repairs the Aquablast comes into its own. Often the damage with diamond wheels is restricted to the alloy wheel machined face. If this is the case, the wheel is lightly blasted and etched in the Aqua Wheelblaster. After this process, the wheel is placed in the lathe to get the new machined finish back and then the wheel is simply re-lacquered with a self-etched lacquer, making the repair very quick and profitable.

### Features

- Optional pneumatic lift complies with health and safety
- Internal spigot ensures ease of handling and loading
- Durable high pressure pump
- Dust – free process
- Compact cabinet design
- Blow off gun to remove excess water and media ready for painting
- Combines six processes in one machine
- Wheels can be prepared in less than three minutes



## How it works

The wheel is loaded onto the pneumatic lift (optional) which is raised up to the opening of the cabinet. The operator then loads the wheel onto an internal spigot, which is mounted on a pivoting arm to allow for easy and hassle – free loading. Once loaded, the operator applies pressure to the foot pedal, and the water/media slurry, which is contained in the cabinet sump, is delivered to the manual blast nozzle via a glandless polyurethane pump. Compressed air is added to this stage to accelerate the slurry.

After contact with the alloy, the slurry drains back into the cabinet sump to create a re-circulation system, while other contaminants are fed into the sedimentation filter. Before removing the wheel, it is rinsed using the integral rinse system and usually compressed air blown dry before removal.



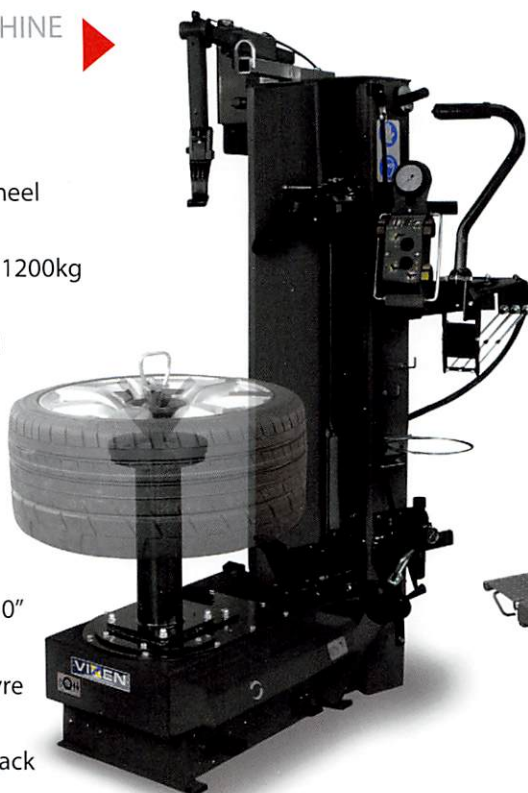


# Auxiliary wheel repair equipment

As well as high tech machinery, Vixen can also provide additional equipment to cater to your wheel repair needs. From Wheel Balancers to Down Draft Air Benches, we can make sure your workshop is complete with a full wheel repair package. This equipment does not only make life easier for the operator, but is also a safer alternative to your standard wheel repair equipment.

## LEVERLESS TYRE MACHINE

- Completely leverless
- Plus 96 assist arm
- Integrated wheel lift
- Patented self-locking wheel clamp plate
- Bead breaking pressure 1200kg
- Single phase
- Motion-controlled bead breaker roller
- Dual upper and lower bead breaking rollers
- Variable speed motor
- Robot mounting tool
- Easy controls
- Wheel diameters 10" – 30"
- Quick locking tool
- G1000A67 low profile tyre assist kit
- Supplied in RAL 9005 black



## 3000KG MID RISE SCISSOR LIFT

- 3000kg lifting capacity
- Platform length 1400mm (extending to 1930mm)
- Platform width 450mm
- Platform height 950mm max
- Drive over height 96mm
- Control box c/w 3m hose
- Single phase
- Supplied with all cable & hose covers
- Supplied in RAL 9005 Black
- Mobile kit available at extra cost



## WHEEL STRAIGHTENER

- Easy to use
- Compact seamless design
- Work range of 10-26 inches
- Lathe and polishing adaptation
- Automatic



## 4000KG MID RISE SCISSOR LIFT

- 4000kg lifting capacity
- Platform length 1490mm (extending to 2180mm)
- Platform width 515mm
- Total width outside to outside platforms 1900mm
- Platform max lift height 1000mm
- Drive over min height 120mm (closed)
- Control box c/w 3m hose
- Single phase
- Supplied with all cable & hose galvanized covers
- Galvanized base frame
- Audible CE stop (anti-toe trap beeper)
- Supplied in RAL 9005 black
- Mobile kit available at extra cost

the ultimate range



## PROFESSIONAL WHEEL BALANCER ▼

- Automatic distance and rim diameter measurement
- Quick balance programme
- 10" - 26" rim diameter
- 1.5" - 22" rim width
- ALU S and PAX Programmes
- LED light
- Laser point
- 6 second cycle time
- Read out accuracy 1-gram
- Rim/tyre optimisation
- Auto wheel stop
- Supplied in RAL 9005 black



## PROFESSIONAL TYRE MACHINE ▲

- 2 Speed motor
- Fully automatic
- 3 Piece pneumatic plus 83 assist arm
- Chuck table with adjustable clamps
- 13" - 24.5" inside rim diameter
- 11" - 22" outside rim diameter
- Aluminium protection pack
- Quick change plastic inserts for alloy wheels



## DOWNDRAFT AIR BENCH ▲

- Heavy duty
- Multiple filters
- Fully welded
- Powder coated
- Replaceable filters



## MOBILE WHEEL STAND ▼

- Easy to move
- Can hold up to 4 wheels at a time
- Strong and robust
- Small footprint so easy to store when not in use



# Vixen Case Studies

At Vixen we pride ourselves on customer care and always strive to provide customers with the best service and equipment possible. Many companies around the globe have invested in Vixen machines and we have established long-standing relationships with many world renowned organisations.

## Sytner Group

Sytner Group the UK's largest motor dealership by revenue has over 30 Vixen Vertical Wheel Lathes and Aqua Wheelblasters throughout the UK. This is what Gary from Sytner High Wycombe had to say about their Vixen machine:

“Stunning results every time and it's such an easy machine to work with.”

## Mr Reifen Felgendoktor

Mr Reifen Felgendoktor, one of the most popular wheel repairers based in Dortmund, Germany, purchased the Vixen Aqua Wheelblaster machine to prepare alloy wheels. Before purchasing the Aqua Wheelblaster, Mr Reifen would scotch brite the wheels by hand and this would take up to 30 minutes per wheel. Now, using the Vixen Aqua Wheelblaster it only takes 3 minutes to prepare a wheel before powder coating.



“The service we received was outstanding and the service engineer who came to set up the machine, couldn't have been more helpful.”

To see our latest videos and to hear what our customers have to say about their



## DC Alloys

DC Alloys based in Barnstaple, North Devon is a family run business that repair diamond cut alloy wheels.

“The quality of the finished wheels has been first class and has been much admired by our expanding client base..”



## The Customer Journey

At Vixen, the sale is just the beginning of an excellent service. The aftersales department are all extensively trained on all the machines we manufacture at Vixen including spares, parts, media and technical operations.

This team also includes highly trained service engineers who carry out monthly or quarterly servicing contracts. In addition to servicing, the engineers are primed to deliver breakdown cover with rapid response throughout the UK.





# Worldwide Customers

Vixen Surface Treatments is experienced in manufacturing a variety of surface treatment machinery and exporting to customers all over the world.

With over 25 years' experience in shipping machines internationally, no country is too far away for Vixen. Over 30 verified Vixen representatives and distributors operate worldwide, and no matter where a customer is located, the dedicated sales and export team can supply them with a quality piece of equipment quickly and easily.

## Zahringer Lack and Dellentechnik - Germany

“ I was so impressed with the Vertical Wheel Lathe when I visited Vixen I had to purchase one for myself! All of the Vixen team were very accommodating when I arrived and I have received excellent service throughout! ”



## Classic Auto Group - Michigan USA

“ We have been so impressed with the machine, we are now looking into exploring other avenues and future opportunities for our business! ”



## Precision Wheels - Sydney Australia

“ The service when purchasing the Aquablast machine was excellent. With delivery prompt and us kept well informed of in-transit information, the Aquablast arrived well packaged and in perfect condition, with excellent documentation on equipment setup! ”



## C.S.E.S. Enterprises - Barbados

“ I would recommend Vixen purely based on how easily and efficient the machine is to use with great results. In a busy workshop, time is always limited; the blaster has really sped up my job turnaround times. ”



## Lehmann Automotive - The Netherlands



# VIXEN

PLUNA AIRLINES URUGUAY  
UTAIR ENGINEERING RUSSIA

SINGAPORE AIRLINES

RYOBI BELFAST

VTL

ETHIOPIAN AIRLINES

AVIO AERO (GE ITALY)

GE NASHVILLE

JAGUAR LAND ROVER

ATLAS COPCO

BAE SYSTEMS

BLACK & DECKER

BMW

BP

CUMMINS ENGINES

DUNLOP AVIATION

EBARA

EDWARDS

FEDERAL MOGUL

FORD MOTOR COMPANY

FIKARS

GE AVIATION

HAMPSHIRE TABACCO

HENKEL

HOTPOINT

IMI GROUP

KAWASAKI

LONDON UNDERGROUND

MATTHEW ALGIE

METRON TECHNOLOGY

MITRAS AUTOMOTIVE

NESTLE

PEPSI

QIOPTIC

REDBULL F1

ROYAL ORDNANCE

SEBASTIAN VETTEL

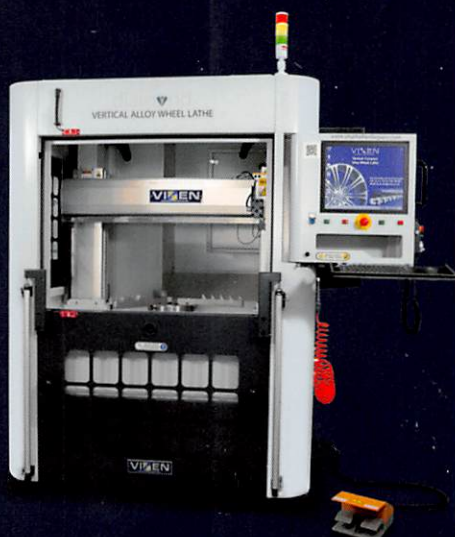
SHARP ELECTRONICS

SYTNER BMW

TATA STEEL



VERTICAL ALLOY WHEEL LATHE



AQUA WHEELBLASTER



WHEEL STRAIGHTENER



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