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Product Range



Design & Quality

A big part of Rhino Products' continued success is due to our design and engineering expertise. We are constantly pushing ourselves to make our products safer, stronger and ever more useful in meeting our customers' needs.



Rhino Products are Europe's leading manufacturers of roof racks, roof bars, rear access steps, ladder restraint systems and several other external van accessories including steps.

In 2017 we bolstered our van step portfolio by acquiring AVS Steps - a worldwide leader in designing and manufacturing side access steps for passenger vehicles such as taxis, minibuses, ambulances and other accessibility vehicles including individual mobility vehicles. Following the acquisition, AVS Steps' production and support services were moved from Wem in Shropshire to Rhino's 55,000 sq ft headquarters in Deeside, Flintshire.

The AVS Steps product range includes both electric and manually operated cassette steps and a special cut-out folding double step series. Our various product lines are supplied worldwide via our network of trusted dealers.

With the addition of AVS Steps behind it, the Rhino Products Group can now boast the most comprehensive range of side and rear vehicle access steps available. We always ensure we manufacture the right step for every vehicle, improving access for thousands of people getting into vehicles every day.

In recent years a growing need for improved ground clearance on smaller vehicles has led to our cassette step range evolving with the development of a series of very slim cassette steps.

We strive to simplify the fitting process making it as quick and easy as possible with specially designed fitting kits.

3D CAD Design

Using the latest in 3D modelling simulation and 3D printing, product evolution and new product development times have been reduced significantly with the progression of design software allowing for more computer testing prior to modelling stages.

Crash Testing

It has always been Rhino Products policy to test, test and then test again during product development, and this is a mantra that continues to this day to ensure the utmost in product safety

Life Cycle Testing

We put our products through various long-term usage testing scenarios to futureproof them and provide further confidence with end users.

Quality Control

Quality Control is something the Rhino Products Group take very seriously. We are currently fully ISO 9001:2015 accredited by BSI.





SLM Manual Slim Line Cassette Steps

The SLM and SLE series - Slim line manual and electric cassette steps



If you require a stylish and secure vehicle access system when maximising ground clearance is a key concern, then our SL cassette step range is the ideal solution. The SLM is our manually operated slim line step system featuring a thin cassette profile and unobtrusive design, but despite its thinner appearance it offers an excellent performance in terms of reliability and strength.

The SLM is our manually operated slim line step system, which is controlled via a side mounted foot pedal. By just pressing down on this pedal once the step will deploy and click in into position, stowing the step is achieved with a second press on the pedal and by pushing the step tread edge in as far as it will go. In most cases a microswitch system will be fitted meaning a buzzer will sound if the step is not fully stowed.

From its rigorous testing process to its aesthetically smart design – every aspect of the SLM range has been designed to optimise performance, reliability and ease of use.

Features:

- Slim lines, moulded corners and neat tread design
- Rigorous testing equivalent to real life conditions
- Galvanised steel case with weatherproof protection strip
- Special corners to reduce dirt ingress and meet taxi standards
- Side mounted pedal with maximum ground clearance
- Fits a huge range of vehicles with specially designed fitting kits
- Heavy duty sprung pedal mechanism with intuitive action
- Soft deploy gas springs - oil reservoir at end of piston slows down last 40mm of the deploy

Options:

- Audible warning buzzer kit
- Range of fitting kits available including a universal kit

Technical:

Widths	600mm
SWL	150kg
Tested to	225kg (for 100,000 cycles)
Typical applications	Motability vehicles, minibuses, ambulances, utility vehicles, taxis
Compatible vehicles	Citroen Dispatch, Citroen Relay, Fiat Ducato, Fiat Talento, Ford Transit Custom, Mercedes Sprinter, Nissan NV400, Peugeot Boxer, Peugeot Expert, Renault Master, Renault Trafic, Toyota Proace, Vauxhall Movano, Vauxhall Vivaro, Volkswagen Crafter, Volkswagen T6 Transporter

From its rigorous testing process to its aesthetically smart design – every aspect of the SLM range has been designed to optimise performance, reliability and ease of use.



SLE Electric Slim Line Cassette Steps

The SLM and SLE series - Slim line manual and electric cassette steps



The SLE range is one of our most popular and versatile series of electric side access steps for taxis, accessibility vehicles, ambulances and many other special purpose vehicles. Similarly to the manually operated SLM, the SLE features an incredibly slim cassette profile of just 46mm making it ideal for low ground clearance vehicles.

Every SLE step is fitted with a heavy duty motor and is exhaustively tested to guaranteed durability and performance, but its slim lines, moulded corners and neat tread design mean this is also a step with style.

Typically the step will be set up to deploy automatically when the door is opened and retract when the door is closed, although they can also be solely driver operated. The fully automatic control can be switched off in the stowed or deployed position via an isolation switch on the dashboard. A red light on the dashboard will flash to let the driver know when the step is not stowed, and as a failsafe the step can be wired to stow when the handbrake is released.

Features:

- Powered by a purpose made high torque motor
- Extremely water resistant
- Aluminium side arms, with nylon wheels and stainless steel runners.
- An isolation switch allows the step to be turned off in the stowed or deployed position
- Self-cleaning side arm action

Options:

- **LED warning light** - on dashboard
- **Buzzer** – that sounds if step isn't correctly stowed
- **Fully automatic or driver controlled operation**

Technical:

Widths	450mm, 600mm
SWL	150kg
Tested to	225kg (for 100,000 cycles)
Typical applications	Motability vehicles, minibuses, ambulances, utility vehicles, taxis
Compatible vehicles	Citroen Dispatch, Citroen Relay, Fiat Ducato, Fiat Talento, Ford Transit Custom, Mercedes Sprinter, Nissan NV400, Peugeot Boxer, Peugeot Expert, Renault Master, Renault Trafic, Toyota Proace, Vauxhall Movano, Vauxhall Vivaro, Volkswagen Crafter, Volkswagen T6 Transporter

The SLE features an incredibly slim cassette profile of just 46mm making it ideal for low ground clearance vehicles.

EXE Electric Cassette Steps

The EXE series – High specification electric cassette steps



Illuminated top edge - ribbon switch lights up step when deployed and vehicle lights are on

Our EXE cassette steps represent a precise, powerful and reliable solution for easy passenger access in and out of various vehicles. EXE steps don't use microswitches, instead utilising current sensing control box technology for improved reliability.

These electric "slide in, slide out" steps can be deployed automatically when the vehicle door opens or can be controlled by the driver or attendant. The retracting motion is triggered whenever the door shuts as an added safety feature, and this can also be linked to the handbrake as a failsafe.

The EXE range is tested to rigorous standards far above typical usage with the powerful twin arm motor unit being put through thousands upon thousands of tests. This helps us ensure the EXE's trademark quiet, smooth and reliable action.

Two LED lights are fitted on the vehicles dashboard. A green light indicates whether the step is stowed, moving or fully deployed while a red warning light is used to indicate an obstruction is preventing the step from fully extending.

Features:

- Snow arm technology that prevents ice and mud accumulating at the back of the step
- Weather proof protection strip at front of step cassette
- No microswitches for enhanced reliability
- Halves passenger entrance step height
- Self-cleaning motor action
- Fitting kit available for all popular vehicles
- Protective plastic corners
- Available for sliding, hinged and power operated doors
- Twin arms with smooth reliable action
- Tested to equivalent of 20+ years of use
- Heavy duty high powered motor

Options:

- **Touch sensitive edge** - stops power to motor on encountering any obstruction (reset via door pin switch)
- **Illuminated top edge** - ribbon switch lights up step when deployed and vehicle lights are on

These electric "slide in, slide out" steps can be deployed automatically when the vehicle door opens or can be controlled by the driver or attendant.

Technical:

Widths	600mm, 700mm, 1000mm, 1200mm
SWL	250kg
Tested to	375kg (for 100,000 cycles)
Typical applications	Motability vehicles, minibuses, ambulances, utility vehicles, taxis, accessible vehicles
Compatible vehicles	Citroen Relay, Fiat Ducato, Ford Transit, Ford Transit Custom, Mercedes Sprinter, Nissan NV400, Peugeot Boxer, Renault Master, Vauxhall Movano, Volkswagen Crafter

CM Folding Double Steps

○ The CM series – Cut-out folding double steps

Our CM steps are a market leading range of manually operated folding steps. Designed with rapid installation in mind, the CM range has turned what had previously been a major bodywork job into a simple cut and bolt operation.

These folding steps, which provide two additional levels to assist with vehicle entry, are exceptionally strong and very easy to operate. A CM step requires very little maintenance and can be made to suit either of two flooring types - Innotrax and conventional 12mm ply floor.

CM steps are a market leading range of manually operated folding steps, designed with rapid installation in mind.

Features:

- Easy to operate
- Excellent strength
- Virtually zero maintenance
- CM steps are available in a choice of five vinyl colours
- All additional latches and fitting brackets included
- Yellow step pan, grey folding section (typical colours)
- Extensively tested

Options:

- CM folding steps can be made for both Innotrax and 12mm ply flooring to suit your requirement

Technical:

Widths	600mm
SWL	250kg
Tested to	375kg
Typical applications	Ambulances, Motability vehicles, school buses, minibuses
Compatible vehicles	Citroen Relay, Fiat Ducato, Nissan NV400, Peugeot Boxer, Renault Master, Vauxhall Movano