

VIPER

STRETCHER & LOADING SYSTEM



Sometimes to simplify is the answer - for years the Ambulance Sector has debated “How do we eliminate the need for a Tail-lift, Ramp or complicated electronic Loading System on the back of an Ambulance”?

Ferno’s VIPER system utilises a mechanical loading arm which quickly, easily and safely loads/unloads the ambulance stretcher without using what is considered to be unreliable powered in-vehicle systems. But another massive bonus is the weight saving, the Ferno VIPER stretcher & loading system weighs in at under 156 kg up to 30 kg less than an equivalent powered loading system and at least 150 kg lighter than a traditional tail-lift and X-frame trolley vehicle configuration.

Needing no power the VIPER Loading System (VLS) is easier and quicker to operate and requires less servicing, thereby maximising the efficiency of the fleet and contributing towards the reduction in whole life-time costs.

The VIPER Stretcher –has a 320 kg (50 stone) unassisted lift capacity, it can be used for all types of patient transfers, including bariatric. Utilising the latest-generation Lithium-ion battery technology with automatic in-vehicle charging, it ensures the stretcher has power every time. But in the unlikely event of no power, the Viper’s built-in manual-override capability is extremely quick and easy to operate.

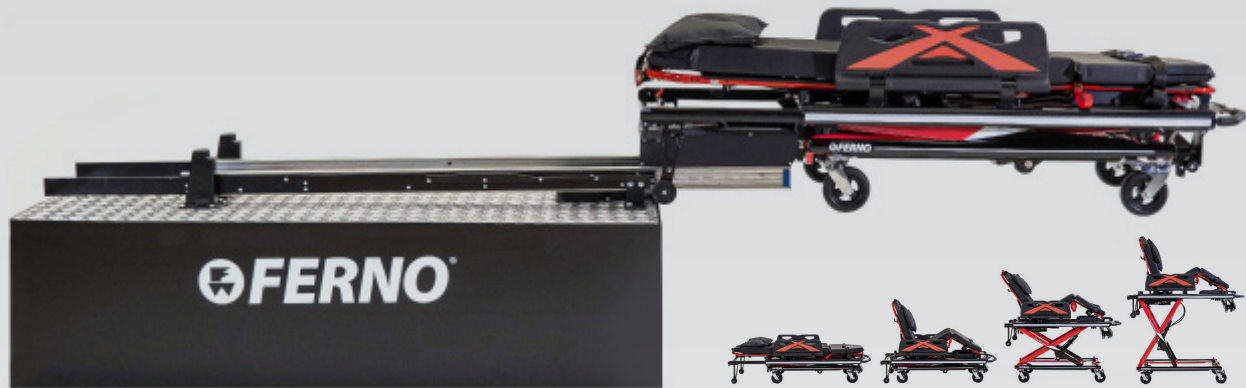
The VIPER stretcher includes ratcheting Surface eXtending (SX) CotSides, allowing the patient surface to be widened for larger-size patients. Directional wheel locks at the head-end, but actuated at the foot-end, always gives you full control.

The VIPER App (iOS & Android) allows adjustment of loading height, parameter settings and stretcher operation monitoring for maintenance and servicing.

The VIPER Loading System (VLS) – can be used on angled and uneven surfaces, over inclines, even on pavements and sidewalks. Minimal operator intervention or effort is required for loading; just approach the loading arm with the stretcher, the loading-arm head guides the stretcher into position and once locked in place simply press a single button to lower the stretcher onto the loading arm and raise the legs, all in one step, then simply move the stretcher into the vehicle, all requiring the minimum of effort.

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The **WHOLE System** brings together **ALL** what the modern Ambulance demands - a simple, robust, lightweight Stretcher & Loading System that saves time when every second counts, that is easy to maintain & clean, and which contributes massively to reducing the weight and the whole life costs of the Ambulance.

Features & Benefits

VIPER Stretcher

- Powered stretcher with unassisted lift capacity of 320 kg (50 stone)
- Stretcher utilises latest-technology integrated Lithium-ion battery which auto-charges in the vehicle
- Battery level indicator shows the stretcher charge at all times
- Manual over-ride function if battery is depleted, can load/unload stretcher even with no power
- Multi-position backrest and leg-positioning, easy to adjust
- All-terrain 15cm rubberised wheels for better handling and shock absorption
- Easy to operate foot-end wheel locks
- Head-end directional wheel-locks, actuated from foot-end
- SX surface extender cotsides, ratchets to 4 different positions including horizontal (load-bearing)
- Stretcher shortens to 1630 mm for easier manoeuvring around corners and in lifts

- Viper Smartphone/Tablet App (iOS & Android) for setting load height & parameters
- Stretcher operation data can be uploaded to Viper App for analysis

VIPER Loading System (VLS)

- Mechanical loading & fastening system – no power required, no electrics to go wrong
- Quick and easy to load/unload, less than 20 seconds
- Loading system design minimises the manual-handing effort required
- Loading-arm head guides stretcher in position during loading, affords operator to be less accurate
- Can be loaded/unloaded on inclines, at angles and on rough terrain
- Only 2000 mm in length, will fit in the shortest of vehicles
- Not subject to LOLER regulations
- Designed for easy installation in vehicle

Specifications

VIPER Stretcher

LENGTH	2000 mm
LENGTH Shortened	1630 mm
WIDTH	600 mm
Width (with SX cotsides ratcheted horizontal)	950 mm
MAX HEIGHT	1330 mm
MIN HEIGHT	380 mm
*WEIGHT no mattress/restraints	82 kg
SWL	Unassisted Lift 320 kg
WHEELS DIAMETER	15 cm
WHEELS WIDTH	5 cm
BACKREST ARTICULATION	0° – 90°
LEG PLATFORM ARTICULATION	0° – 30°
BATTERY CAPACITY	37 V, 5 Ah

*Stretcher weight includes SX cotsides and battery pack, no mattress or restraints that weigh 4.8 kg

VIPER Loading System (VLS)

LENGTH	2000 mm
WIDTH	570 mm
HEIGHT from floor in vehicle (no stretcher loaded)	260 mm
WEIGHT	69 kg
MAX LOAD CAPACITY	400 kg
MAX LOADING HEIGHT (vehicle floor height)	950 mm
Max angle of negative incline for loading	5°
Max angle of positive incline for loading (stretcher angle above loading arm)	7°
Max angle of lateral incline (side) for loading	6°

Compliance

- Viper Stretcher & loading system 10G dynamically crash-tested, certified to EN 1789:2020, CEN compliant
- Compliance to EN 1865:2015
- Compliance to Medical Device Regulation (EU) MDR 17/745
- IP66 rated, both stretcher & loading system can be power-washed



+31 30 600 50 50
info.nl@vdpmedical.com
www.vdpmedical.com

+32 (0)3 336 96 00
info.be@vdpmedical.com
www.vdpmedical.be

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