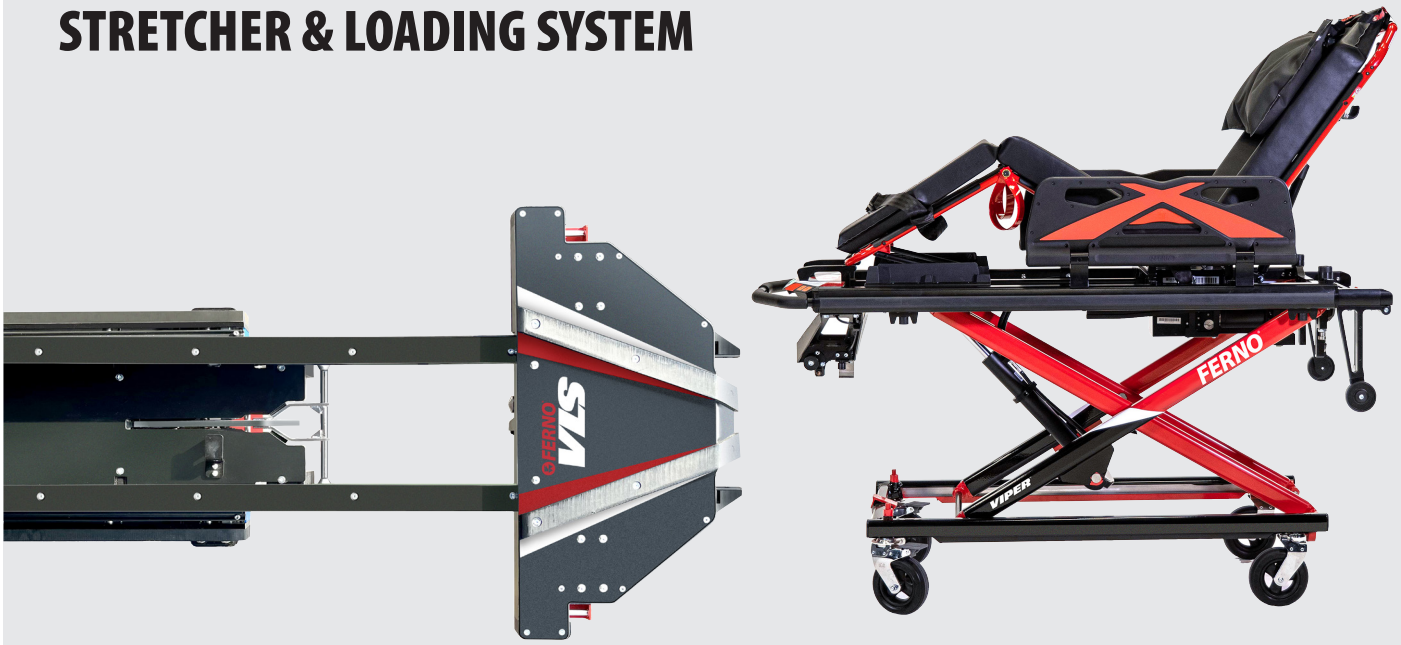
VIPER2

STRETCHER & LOADING SYSTEM



Building on the feature benefits of Ferno's VIPER powered ambulance stretcher & VLS mechanical loading system, VIPER2 has been enhanced further to give an even better patient and operator experience and now with a wider range of available features and options.

Ferno's VIPER2 system utilises the same VIPER mechanical loading system (VLS) to quickly, easily & safely load/unload the stretcher without those limitations previously associated with electronic loading systems, such as load angle and power loss.

VIPER2 now includes additional features to make operation even easier, whilst still achieving the benefits of up to 30 kg weight-saving, compared to an equivalent powered loading system. Needing no power and therefore having low energy consumption, the VIPER Loading System (VLS) also requires limited servicing, thereby maximising the efficiency of the fleet and contributing towards the reduction in whole life-time costs.

VIPER2 powered stretcher has a 320 kg (50 stone) unassisted lift capacity, designed for use for all types of patient transfers, including bariatric work.

Utilising a detachable latest-generation Lithium-ion battery with automatic in-vehicle charging, as well as the capability to charge outside of the vehicle, 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 is always available as a last resort.

The VIPER2 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.

An electronic interlock system on VIPER2 ensures simple and safe loading and unloading in all situations.

Various options and accessories now available for VIPER2 also make the system fully configurable to differing needs.

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

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The VIPER2 system brings together all that a 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 fleet.

Features & Benefits

VIPER2 Stretcher

- Powered stretcher with unassisted lift capacity of 320 kg (50 stone)
- Stretcher utilises latest-technology detachable 36v 9Ah lithium-ion battery, which auto-charges in the vehicle but can also be charged out of 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 150mm rubberised wheels, 200 mm wheels also available for further-enhanced manoeuvrability
- Easy to operate foot-end wheel locks
- Head-end directional wheel-locks, actuated from foot-end
- SX surface extender cotsides, ratcheting to 4 different positions including horizontal (load-bearing to 100 kg each side)
- Stretcher shortens to 1600 mm for easier manoeuvring around corners and in lifts

VIPER Loading System (VLS)

- Mechanical loading & fastening system – no power required, no electrics requiring repair
- Electronic interlock system within stretcher ensures easy and secure locking onto the loading platform and prevents operator from unlocking the stretcher if legs are not on the ground
- 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, operators do not need to worry about being exactly aligned when loading
- Can be loaded/unloaded on inclines, at angles and on rough terrain
- Only 2000 mm in length, will fit in shorter wheelbase of vehicles
- Not subject to LOLER lifting regulations
- Designed for easy installation in vehicle

Specifications

VIPER2 Stretcher

LENGTH (Extended / Shortened)	2000 mm / 1600 mm
WIDTH (Standard / with Push Pole option)	600 mm / 698 mm
WIDTH (Patient surface / with SX cotsides extended)	460 mm / 950 mm
HEIGHT (Fully lowered / Fully raised)	380 mm / 1330 mm
WEIGHT of Stretcher	75 kg
WEIGHT including SX cotsides, mattress & harness	82 kg
SWL (Unassisted Lift)	320 kg (50 stone)
Wheel Options	150 mm * 50 mm
	200 mm * 50 mm
Backrest Adjustment Angle	0° – 90°
Leg Platform Adjustment	0° – 30°
Battery Output	36 VDC, 9 Ah
Battery Operating Range	-40°C to 60°C / -40°F to 140°F

VIPER Loading System (VLS)

LENGTH	2000 mm
WIDTH	570 mm
HEIGHT from floor in vehicle (no stretcher loaded)	2 60 mm
WEIGHT (Overall)	68.8 kg
LOAD CAPACITY	400 kg
MAX LOADING HEIGHT (max. vehicle floor height)	900 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 1865:2024
- Compliance to Medical Device Regulation (EU) MDR 17/745
- IP66 rated, loading system can be power-washed
- Designed for easy installation in vehicle

VIPER2 variation part numbers

VIPER2 is available with a range of option configurations, including lateral-folding cotsides or SX cotsides, standard backrest, extending backrest, or head-tilt backrest, 150 mm wheels or 200 mm wheels, standard leg platform or tapered leg platform c/w footbar, manoeuvre Push poles, Push bar, and with a range of accessories such as IV pole, O2 cylinder holder, defib hook, document holder, and various medical rail configurations for attachment of medical devices.

Please refer to separate VIPER2 configurator for the part numbering of systems with various options and accessories available.

VIPER STRETCHER OPTIONS & ACCESSORIES

VIPER Head End Backrest Extension

This alternative backrest option allows the stretcher backrest to be extended to enhance patient comfort and safety for larger or taller patients. Extends overall stretcher length from 2000 mm to 2160 mm.

Part No: 4000073 (V-KV) (complete backrest unit, 800 mm 450 mm 25 mm, weight 3 kg)

VIPER Head End Extension Headrest Pillow

Part No: 15000000037 Used in conjunction with headrest option V-KV

VIPER Black Push-Bar

The Push-Bar option (photo left) permanently mounts to the VIPER stretcher giving an easily accessible cross-bar that provides extra manoeuvrability.

Part No: 4000088 (V-PB) (Height of bar above stretcher 310 mm, weight 1.55 kg)

VIPER Red Ferno Footplate

Other available option is a patient leg platform with built-in footplate (photo right). **Part No:** See VIPER stretcher configuration list

VIPER Push Poles

Keeping with protocols, the Push Pole option allows VIPER to be wheeled in a lowered position without compromising the operators' body position. Poles easily detachable from the stretcher when transferring patient on and off the stretcher.

Part No: 3000374 - Push pole Option, head-end & foot-end, including 4 push poles (9 kg)

VIPER Split Scoop Surface Extender Kit

Increase the patient surface width on VIPER stretcher from 460 mm to 920 mm at the head-end and 850 mm at the foot-end to accommodate extreme bariatric patients. Mount the two halves of a Scoop EXL on the sides of the VIPER stretcher with the Extender kit.

Part No: 4000107 (V-SX-EXL) (Requires option of Long Medical rail installed on both sides of stretcher. Kit consists of 6 component parts, 4 brackets, 2 connecting poles. Does not include Scoop EXL). Sidepads (0450-3014) also available to place on top of the Split Scoop when deployed.

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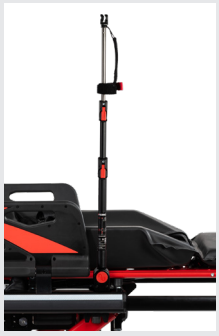


VIPER Three-Stage IV Pole

3-stage telescoping IV pole option. Fixed to the side of VIPER Stretcher, foldable for storage.

Part No: 4000089 (LAIV-3SV)

(weight 1.2 kg)

VIPER Document holder netting

For the storage of documents and other lightweight items

Part No: 4000089 (LAIV-3SV)

(weight 1.2 kg)

VIPER O2 Cylinder Holder

Simple-to-apply cylinder holder option, which can be used during transfer and in-vehicle when travelling.

Part No: 3000284 (weight 1.1 kg)

VIPER Defib Hook

Latching to safely hold a range of defib models when transferring the patient to/ from the vehicle **Part No:**

3000292 - standard backrest

3000285 - extending backrest

(weight 0.6kg)

VIPER Lateral Medical Rails

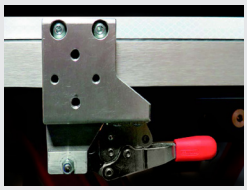
The VIPER Medical Rail option allows medical devices to be attached to the side of the stretcher. Available in two different lengths, 1330 & 785 mm. Note that with rails attached on both sides of the stretcher and the SX cotsides lowered, this extends the width of stretcher by 200 mm to 800 mm.

Part Nos: LONG 4000074 (V-NS) (1330 mm, 25 kg) **SHORT 4000075 (V-NS-S)** (785 mm, 12 kg)

Medical rail height 25 mm, rail thickness 10 mm, rail protrudes 30 mm from stretcher.

Universal clamp for Lateral Medical Rail

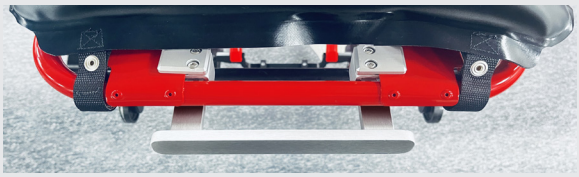
The universal clamp allows medical devices with the same interface as shown in photo to be securely mounted to the Medical siderail on the side of the stretcher whilst moving outside of the vehicle. **Part No: 4000108 (UKN)**



VIPER Head-End Corpuls with Patient Box Holding Bracket

Mounted on the backrest frame at the head end of the stretcher, this option allows a Corpuls with Patient Box to be hooked onto the VIPER backrest. *Note that this can only be used on a stretcher that has the optional VIPER head-end backrest extension,* V-KV.

Part No: 4000074 (M273) (200 mm*92 mm*45 mm, weight 0.34 kg, Max Load 6.5 kg)



VIPER Mounting Hardware Kit for fixation of PacRac+

Required for mounting Ferno PacRac+ on VIPER stretcher (needs to be specified at time of ordering stretcher). Does not include PacRac itself which needs ordering separately (FWPR+V/C) **Part No: 4000076 (V-BK 274)**

PacRac+® Equipment Table

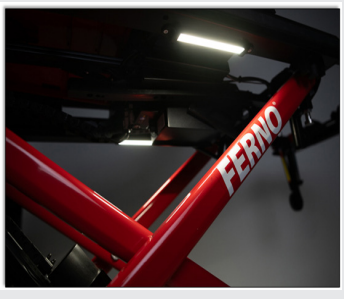
Allows monitor and other medical devices to be mounted on equipment table fixed to stretcher. Includes iNTRAXX interface

Part No: 4000077 (FWPR+V) (weight 7.8 kg)

VIPER Equipment Pole System

The equipment pole system securely mounts to the VIPER stretcher side frame and is used to attach any medical device that uses a clamp system. By mounting it on the chassis frame, the total width of the stretcher increases by 45 mm to 645 mm. Not to be used to manoeuvre stretcher

Part No: V-EPS (height of pole 510 mm, 6.5 kg)



VIPER Lighting Option -

to aid visibility when moving a patient in dimly-lit environment, consisting of light strips mounted on the underside of the patient platform

Part No: See VIPER stretcher configuration list