Introduction

This manual assists you with the operation or maintenance of your Stryker product. Read this manual before operating or maintaining this product. Set methods and procedures to educate and train your staff on the safe operation or maintenance of this product.

CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
- Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.

Note

- This manual is a permanent part of the product and should remain with the product even if the product is sold.
- Stryker continually seeks advancements in product design and quality. This manual contains the most current product information available at the time of printing. There may be minor discrepancies between your product and this manual. If you have any questions, contact Stryker Customer Service or Technical Support at 1-800-327-0770.

Product description

The Stryker **Power-PRO** 2 is a powered ambulance cot that consists of a platform, including a mattress, mounted on a wheeled, retractable X-frame that is designed to support and transport a maximum weight of 700 lb (318 kg). The **Alvarium**™ rechargeable battery powers the hydraulic lift system and allows operators to raise and lower the cot using the powered controls on the foot end lift bars.

The cot features low transport height capability. The cot has an adjustable load height feature to allow the cot to be set to different ambulance deck heights during loading and unloading. The cot is equipped with a manual back-up release handle to allow the operation of cot functions in the event of power loss.

Foot end LED lights illuminate transport areas and reflective markings aid in cot visibility. The cot is also equipped with the following: a retractable head section for 360 degree mobility in any height position, siderails, adjustable backrest, patient restraint straps, and standard mechanical steer and wheel locks. The cot can be equipped various optional accessories that assist with the transport of the patient. The cot litter can be articulated in multiple positions. The cot service interface allows service technicians to acquire cot data and update software.

Power-PRO 2 is compatible with, and can be inductively charged by, the Stryker **Power-LOAD®** and **Performance-LOAD®** fastening systems. **Power-PRO** 2 is also compatible with mass casualty, wall mount, and floor mount fasteners.

Alvarium Battery Management System is comprised of a lithium iron phosphate battery pack and a universal charger. The rechargeable battery acts as a power source for the **Power-PRO** 2 cot.

Indications for use

Power-PRO 2 is intended to transport a patient to or from an emergency or non-emergency location, primarily within an emergency transport vehicle, to a healthcare facility. **Power-PRO** 2 is intended for adult, adolescent, and child occupants who can be effectively secured by patient restraint straps on the product. Intended operators include trained professionals (emergency medical services and medical care center personnel) and medical first responders.

Power-PRO 2 is not intended for extended stay, use as a hospital bed, or devices that modify air pressure, such as hyperbaric chambers.

Clinical benefits

Cot: patient transport

Fastener: support cot for transport

Product illustration - Alvarium

T1

Figure 2 – Alvarium

A	Battery
B	Battery indicator button
C	Charger
D	Battery release button
E	AC power cord
F	DC power cord

Contact information

Contact Stryker Customer Service or Technical Support at: 1-800-327-0770.

Stryker Medical
3800 E. Centre Avenue
Portage, MI 49002
USA

Note - The user and/or the patient should report any serious product-related incident to both the manufacturer and the Competent authority of the European Member State where the user and/or patient is established.

To view your operations or maintenance manual online, see https://techweb.stryker.com/.

Have the serial number (A) of your Stryker product available when calling Stryker Customer Service or Technical Support. Include the serial number in all written communication.

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Accessories and parts

These accessories may be available for use with your product. Confirm availability for your configuration or region. Call Stryker Customer Service: 1-800-327-0770.

Name	Number
Belt extension	6082-160-050
Charger mounting plate	650700450031
HAVASU™ IV pole, two-stage, left	650700350005
HAVASU IV pole, two-stage, right	650700350001
HAVASU IV pole, three-stage, left	650700350006
HAVASU IV pole, three-stage, right	650700350002
Kit, MTS sensor assembly	650707000001
Mattress, knee Gatch bolster	6500-002-150
Mattress, knee Gatch bolster, grey	6506-002-150
Mattress, knee Gatch bolster, XPS	6500-003-130
Mattress, knee Gatch bolster, XPS, grey	6506-003-130
Oxygen bottle holder, Fowler	650700450053
Oxygen bottle holder, head section	650700450054
Restraint package, XPR	650600030010
Restraint package, X-restraint	6500-001-430
Restraint package, X-restraint, blue	6500-001-431
Siderail, standard	650709990002
Siderail, XPS option	650709990001
Storage flat, head end T2	6500-128-000
Storage net, base	6500-160-000
Storage pouch, backrest, dual-sided	650700450134
Storage pouch, backrest, single-sided	650700450142
Wheel lock option, two	650709990009
Wheel lock option, four	650709990010

Use only Stryker-approved parts. Other parts may result in increased electromagnetic emissions or decreased electromagnetic immunity of the system. Do not modify parts. Failure to comply may result in injury.

Name	Number
Power components - AC	
Battery	650700080301
Battery (2x)	650700080302

3.

Power system	
Battery (650700080301)	25.6 VDC LiFePO4
Charger (650700450301)	100-240 VAC, 50/60 Hz, 1A
	12-34 VDC, 5A
Cot duty cycle	16.7%
Standards	ANSI/AAMI ES 60601-1, 60601-1-12, 60601-1-2, BS EN 1865-2, BS EN 1865-3, AS/NZS-4535, SAE J3027, BS EN-1789, BS EN 597-1, 16 CFR 1632 For standards that require specific options, see *Standards with required options* (page 11).

[1] Height is measured from bottom of mattress at seat section to ground level.

[2] Cot is weighed with one battery and without mattress and restraints.

Stryker reserves the right to change specifications without notice.

The yellow and black color scheme is a proprietary trademark of Stryker Corporation.

Labels may be unreadable from a viewing distance greater than 12 inches.

Power-PRO 2 is designed to conform to:

- NFPA-1917
- CAAS-GVS
- KKK-A-1822

Environmental condition	Operation	Storage and transportation
Temperature	130 °F (54 °C) -30 °F (-34 °C) T3.	130 °F (54 °C) -30 °F (-34 °C)
Relative humidity	93% 10%	93% 10%
Atmospheric pressure	1060 *hPa* 620	1060 *hPa* 500

European REACH - Power-PRO 2

In accordance with the European REACH regulation and other environmental regulatory requirements, the components that contain declarable substances are listed.

Description	Number	Substance of very high concern (SVHC) chemical name
Caster nut	6090-001-009	Lead
Cot comm board	650700080203	Octamethylcyclotetrasiloxane (D4)
Foot end interface board PCBA	650700080810	Lead, lead monoxide (lead oxide), diboron trioxide
Gas spring yoke	650700080178	Lead

Power-PRO 2: specifications

Model number	6507	
Height* (infinite height positioning between lowest and highest position)*		
Highest position	41 inches	104 cm
Lowest position	14.4 inches	36.6 cm
Length		
Retracted**	60 inches	152.4 cm
Mid	81 inches	205.7 cm
Extended	84 inches	213.4 cm
Overall width	22.6 inches	57.4 cm
Weight***	130 pounds	59 kg T4
Wheels		
Diameter	6 inches	15 cm
Width	2 inches	5 cm
Articulation		
Backrest	0-75°	
Shock position	+15°	
Knee-Gatch	30°	
Maximum weight capacity	700 pounds	318 kg
Unassisted lift weight capacity	700 pounds	318 kg
Minimum operator required		
Occupied cot	2	
Unoccupied cot	1	
Recommended fastener		
Power-LOAD	Model 6390	
Performance-LOAD	Model 6392	
Floor mount	Model 6370 or 6377	
Wall mount	Model 6371	
Recommended loading height†	Up to 36 inches	Up to 91 cm
Transport height (excluding mattress)	25 inches	63.5 cm
Battery (650700080301)	25.6 VDC LiFePO4	
Charger (650700450301)	100-240 VAC, 50/60 Hz, 1A, 12-34 VDC, 5A	
Standards‡	ANSI/AAMI ES 60601-1, 60601-1-12, 60601-1-2, BS EN 1865-2, BS EN 1865-3, AS/NZS-4535, SAE J3027, BS EN-1789, BS EN 597-1, 16 CFR 1632	

Smart Equipment Management (SEM): specifications

Data usage	64KB per device message. Device messages are sent every minute while connected to internet and powered on, or receiving inductive charge.
Encryption	AES and TKIP (TKIP is not supported with WPA2)
Number of Wi-Fi configurations	10 SSID profiles
Authentication	WPA Personal/Enterprise and WPA2 Personal/Enterprise
RF bands	2.4 GHz, 5 GHz
Protocol/port number	HyperText Transfer Protocol with Privacy (HTTPS)
Connection	TLS 1.0, 1.1, 1.2; 128 bit or higher encryption
RSA	2048 bit exchange

* Height is measured from bottom of mattress, at seat section, to ground level.
** Retracting both the foot and head end of the cot.
*** Cot is weighed with one battery pack, without mattress and restraints. T4
† Can accommodate load decks up to 36 inches.
‡ For standards that require specific options, please review the operators manual for more information.

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