

stryker

Power-PRO™ 2

powered ambulance cot

2.1.



Response inspired

1,

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

2.1. 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 3.1. **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.

3.13. 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 3.14. 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 2.1. service technicians to acquire cot data and update software.

2.2. **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

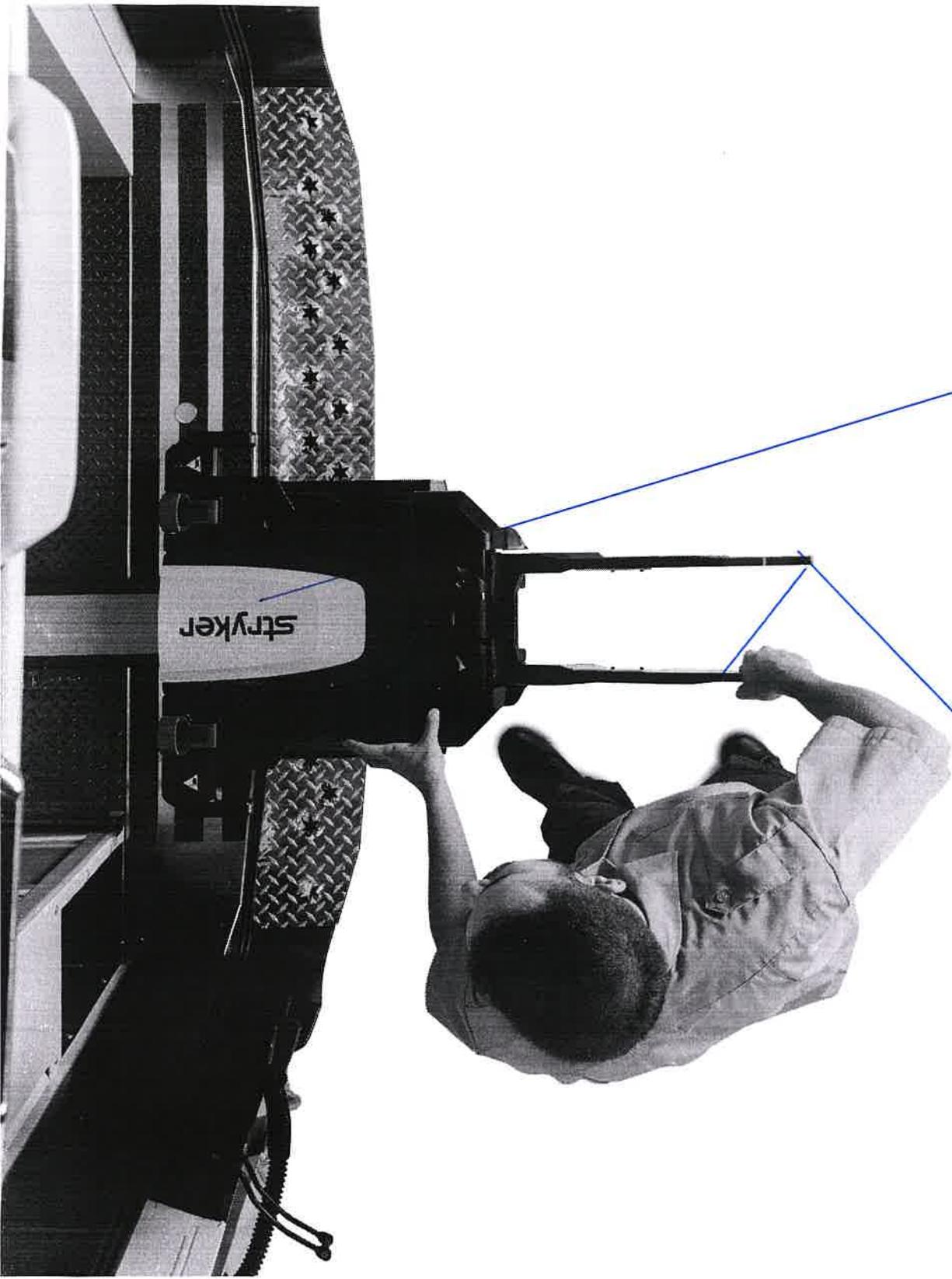
Power-PRO 2 is intended to transport a patient to or from an emergency or non-emergency location, primarily within an emergency transport vehicle, to a healthcare facility. **Power-PRO 2** is intended for adult, adolescent, and child occupants who can be effectively secured by patient restraint straps 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



3.

Power-LOAD[®]
powered fastener system

d.d.

4.1.

stryker

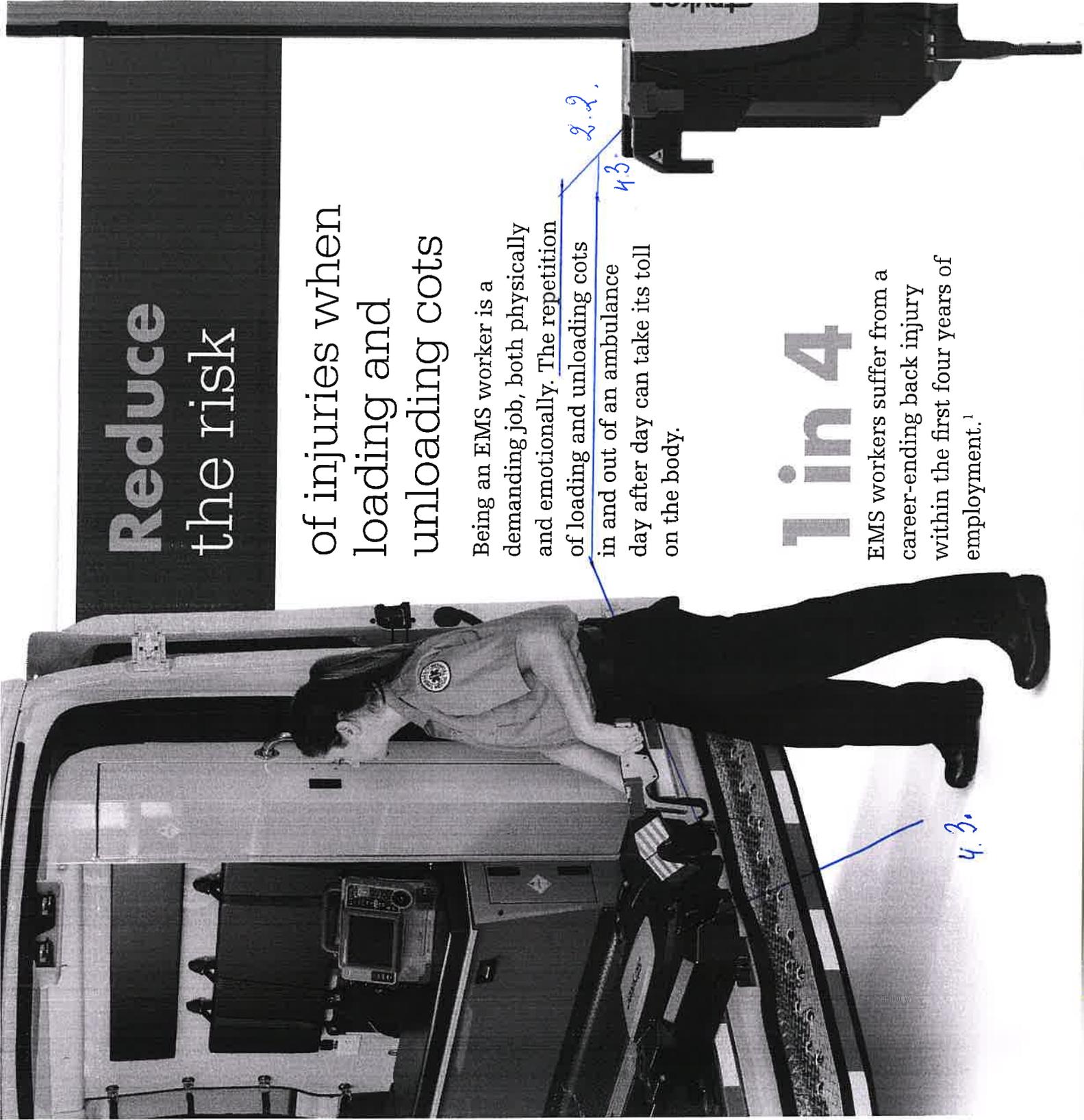
Reduce the risk

of injuries when loading and unloading cots

Being an EMS worker is a demanding job, both physically and emotionally. The repetition of loading and unloading cots in and out of an ambulance day after day can take its toll on the body.

1 in 4

EMS workers suffer from a career-ending back injury within the first four years of employment.¹



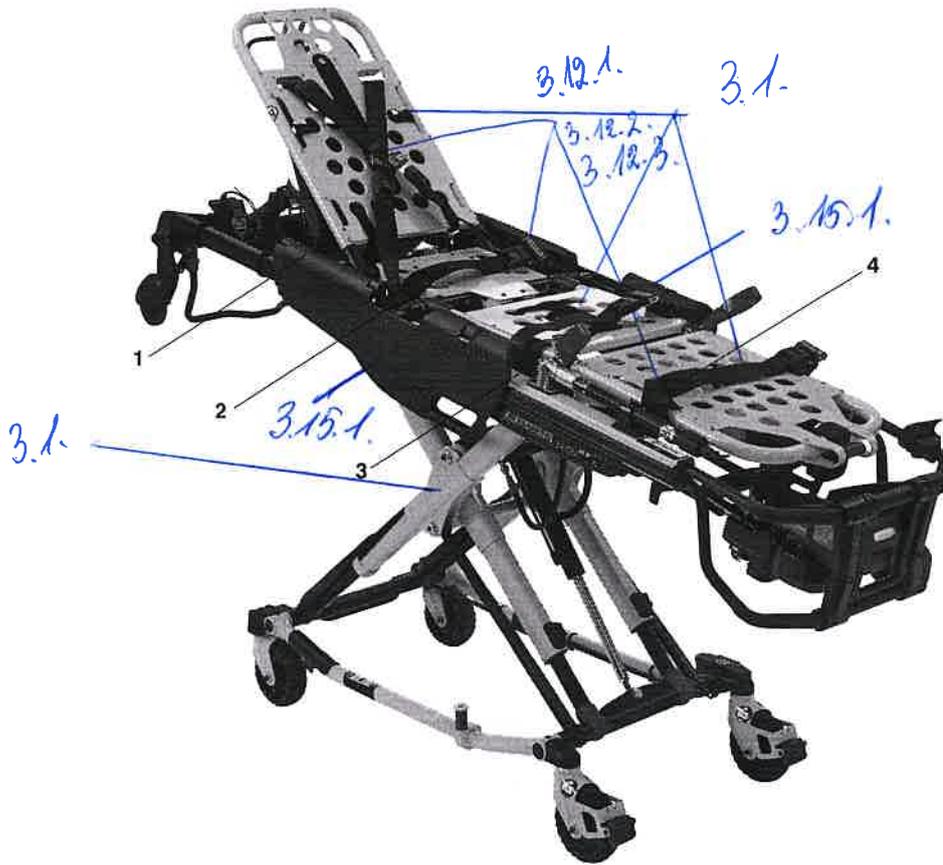
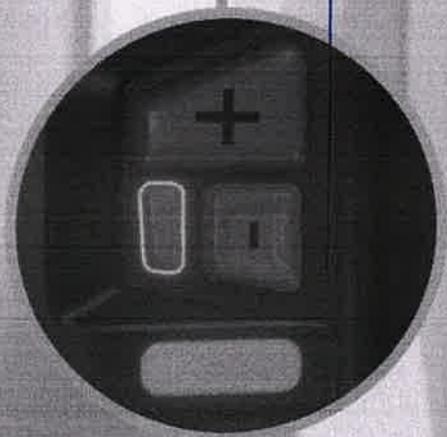


Figure 21 – Restraint strap attachment locations

Attaching the X-restraint/XPR shoulder restraints

To attach the shoulder restraints (Figure 22):

1. Wrap the restraint around the cot frame where the matching label is located (Figure 23).
2. Pull the restraint buckle through the loop, toward the head end of the cot.
3. Feed the buckle under the XPS system.
4. Pull the restraint through tight and toward the back of the backrest.
5. Feed the buckle through the opening in the backrest.
6. Connect the patient right shoulder buckle to the patient left waist buckle.
7. Remove any slack from the restraint strap loop.



3.2.

Increase maneuverability

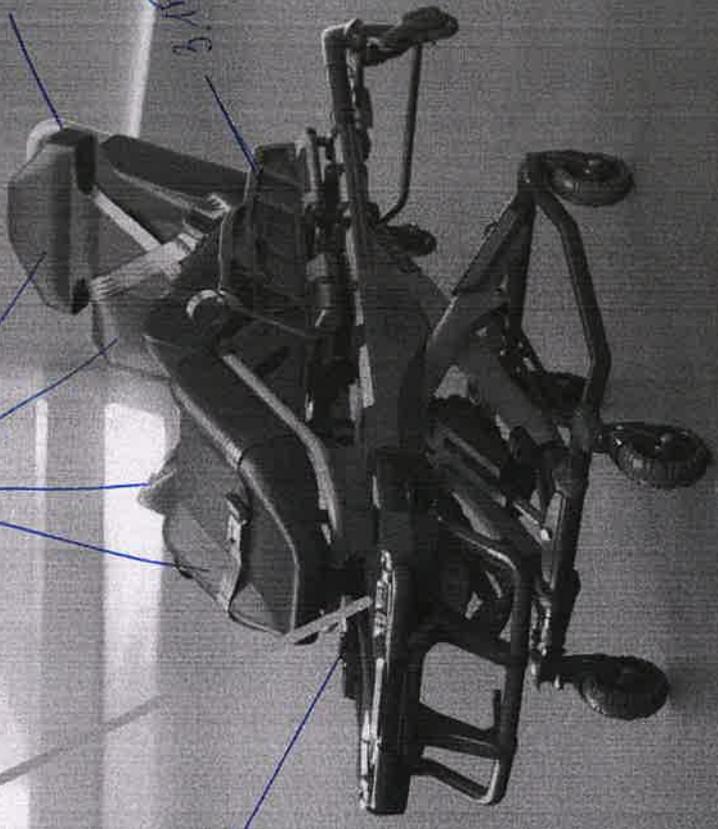
Quickly reach optimal transport height with a single button

3.2.

3.14.2.

3.10.2.

3.15.1.



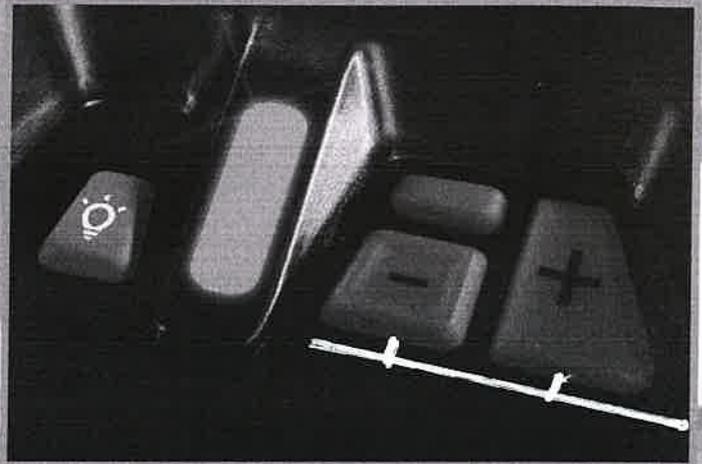
5.

You live it. We built it.

Nobody knows what works in the field better than you. That's why we reimagined our proven design to redefine your partner on scene—focusing on what matters most to help you get the job done.

Respond confidently

- Reach optimal transport height with a single button and increase maneuverability using an extended transport handle *3.2*
- Navigate through tighter quarters with a new retractable foot section (extends and retracts an extra three inches each)
- Help decrease body fatigue with enhanced ergonomics during manual loading and unloading



- Do not leave a patient unattended. Hold the product while a patient is on the product.
- Do not apply a wheel lock when a patient is on the product or when you move the product to avoid the risk of a cot tip or injury.
- Always secure the mattress to the product to avoid movement during patient transfer.

CAUTION - Do not use siderails as a patient restraint device.

To transfer the patient to the cot:

1. Roll the cot to the patient (*Rolling the cot with a patient* (page 30)).
2. Place the cot beside the patient. Raise or lower the cot to the level of the patient.
3. Lower the siderails and open the restraint straps.
4. Transfer the patient to the cot. Follow accepted EMS procedures.
5. Secure the patient to the cot with all of the restraint straps.
6. Raise the siderails and adjust the backrest and footrest as necessary.

Raising or lowering the cot

You can raise or lower an unoccupied cot with one operator. If a patient is on the cot, a minimum of two trained operators are required to raise or lower the cot (one located at each end of the cot).

WARNING

- Always keep hands, fingers, and feet away from moving parts. Use caution when you place your hands and feet near the base tubes to raise or lower the cot.
- Always follow proper hand placement on hand grips. Keep all hands clear of the red safety bar pivots when you load, unload, or change the cot height position.
- Do not raise or lower the cot while you are on rough or uneven terrain.

There are two identical cot control switches located on your **Power-PRO 2** cot. Press the button on either of these switches to raise (extend) the cot, lower (retract) the cot, or release the cot from **Power-LOAD**, if applicable (Figure 10).

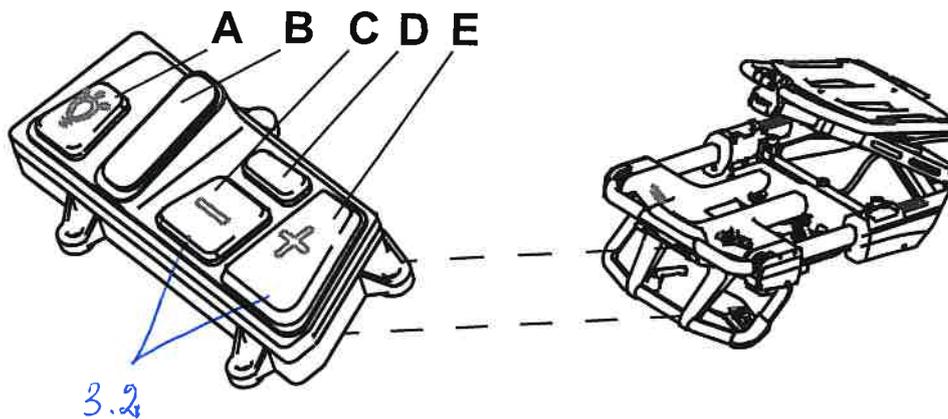


Figure 10 – Cot control switches

Reference	Name	Description
A	Foot end light	Press to turn the foot end light on or off
B	Indicator light	Illuminates when you reach transport height (see item D)
C	Retract (-)	Press and hold to lower the litter or retract the cot undercarriage

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
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.

† Can accommodate load decks up to 36 inches.

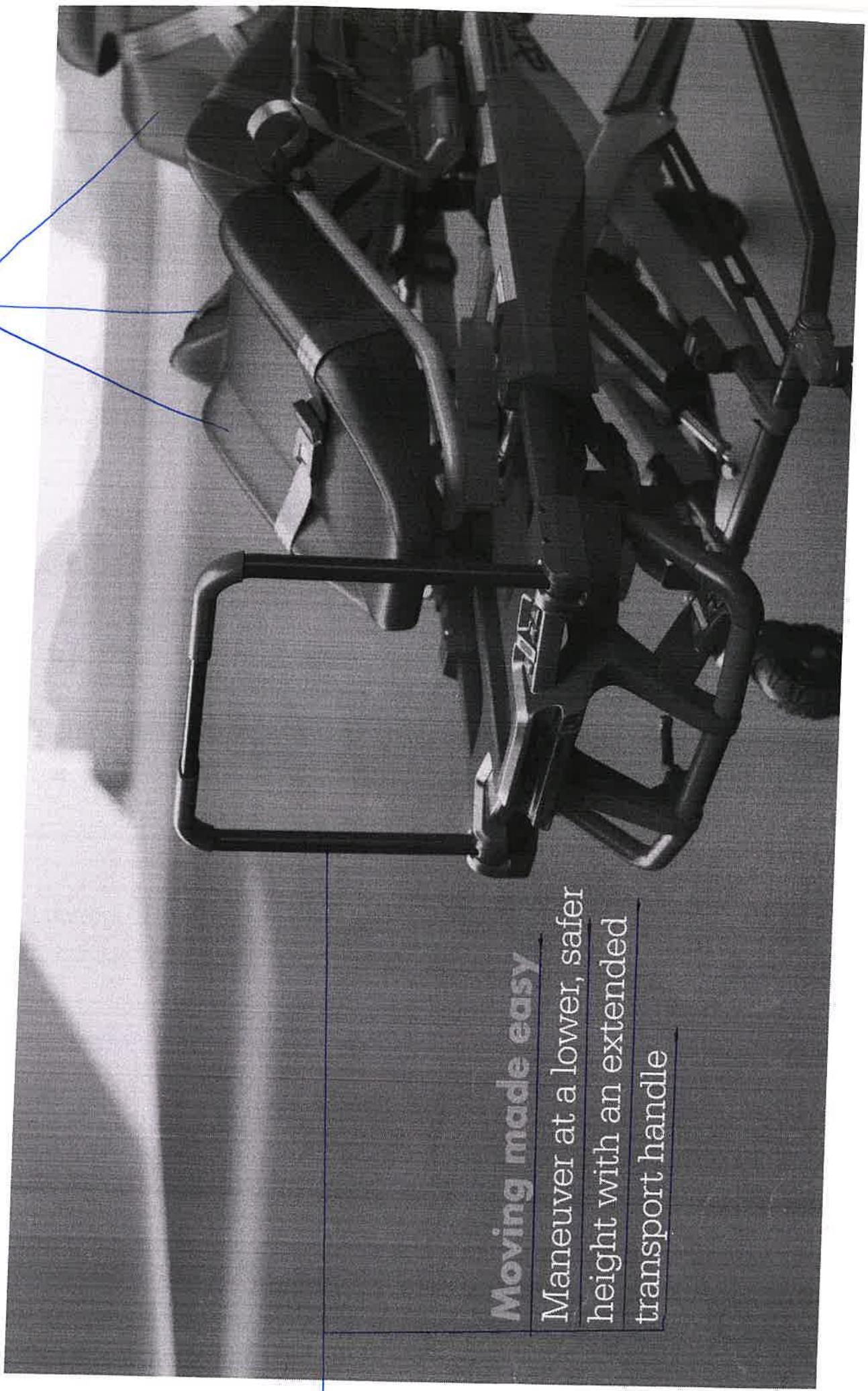
‡ For standards that require specific options, please review the operators manual for more information.

Moving made easy
Maneuver at a lower, safer height with an extended transport handle

3.14.2.

3.8.

10.





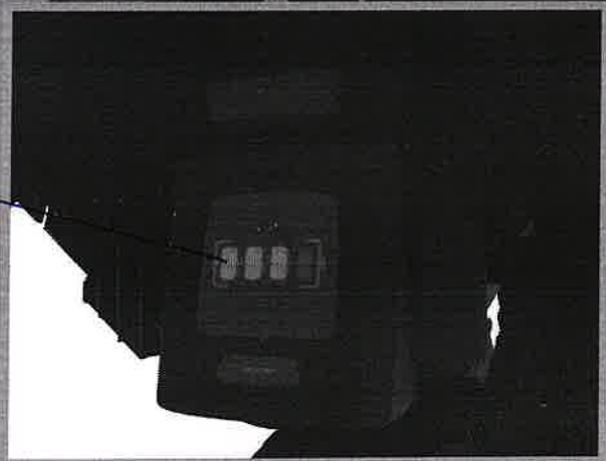
Respond safely

- Perform a true, unassisted lift and reach optimal loading height using smarter hydraulic assembly with load-sensing capabilities
- See and be seen in low light environments with powerful lights and reflectors
- Reduce the chance of cot damage and medic or patient injury with new bumper detection technology



Respond ready

- Remotely track your fleet with Smart Equipment Management™ (SEM™) and pinpoint your cot with its last-known location*
- Improve battery life and management with a new lithium-ion battery and charge indicator
- Limit cot downtime, reduce unexpected costs and ready your ambulances



*Receive location updates when connected to an active Wi-Fi® network and inductive charger from Power-LOAD or Performance-LOAD. Hot spot required for off-network use (not provided by Stryker). Frequency of updates depends on your connection.

Product illustration - Power-PRO 2

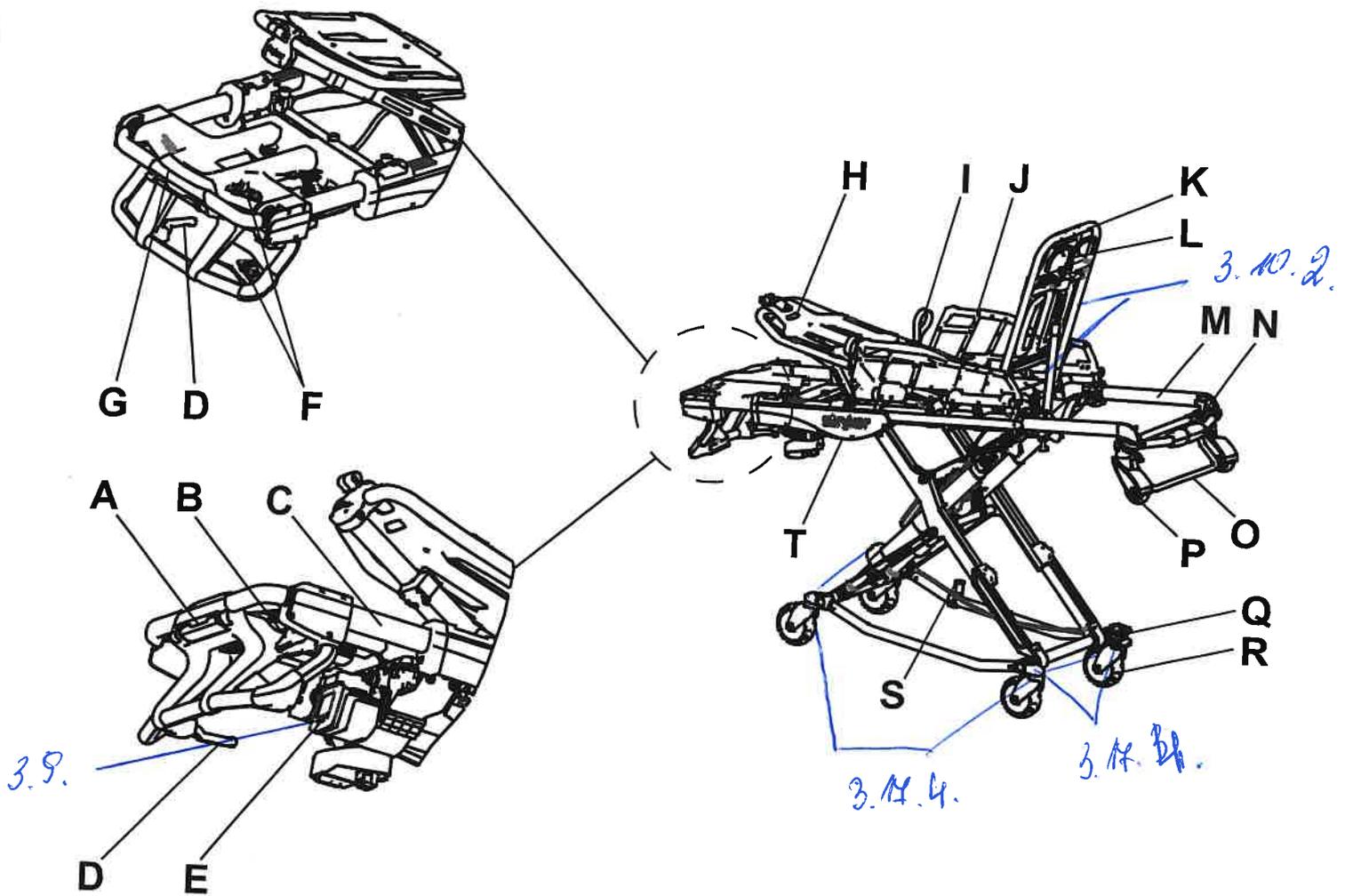


Figure 1 – Power-PRO 2

A	Foot end light
B	Foot section release lever
C	Retractable foot section
D	Manual back-up release handle
<u>E</u>	<u>Battery</u>
F	Cot control switch
G	Transport handle
H	Footrest
I	Red lifting loop
J	XPS siderail

K	Backrest
L	Backrest adjustment handle
M	Retractable head section
N	Head section release handle
O	Safety bar
P	Load wheel
<u>Q</u>	<u>Wheel lock/Steer-Lock™</u>
R	Transport wheel
S	Cot retaining post
T	Height sensor housing

12.

Operation

Checking the battery power level

A charged battery, in working condition, provides at least 14 lifts with a 250 lb (113.4 kg) patient (actual results may vary).
The charger LED indicator bars show the battery power level.



Figure 9 – Battery power level

Status	Battery LED indicator
Discharging	Four LED bars = 76-100% charge Three LED bars = 51-75% charge Two LED bars = 26-50% charge One LED bar = 15-25% charge
Low battery	<15% charge One LED blinks five times, repeated two to three times
Charging	LED indicating current charge percentage is blinking
Error	Press LED indicator button and outermost LEDs blink five times, repeated three times See <i>Troubleshooting</i> in the Maintenance Manual

- Note**
- Use only Stryker approved batteries.
 - Lock the cot into the powered cot fastener to automatically charge the battery. There are no cables or connectors required to charge.

Transferring the patient to the cot

WARNING

- Always use all restraint straps to secure the patient on the product. An unrestrained patient may fall from the product and be injured.

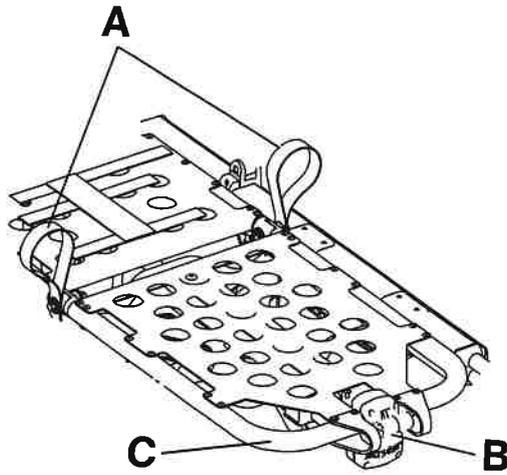


Figure 20 – Gatch

Securing the patient with the X-restraint/XPR restraint straps

Secure restraint straps to the cot in the required attachment locations: shoulders, waist, thighs, and ankles. **Power-PRO 2** cots are compatible with the X-restraint strap system.

3.12.1. 3.12.2. 3.12.3.

WARNING

- Always use all restraint straps to secure the patient on the product. An unrestrained patient may fall from the product and be injured.
- Do not attach restraint straps to the base tubes, cross tubes, or litter skin.

CAUTION - Do not entangle the restraint straps in the base frame when you raise or lower the cot.

Note - Restraint straps are a Type BF applied part.

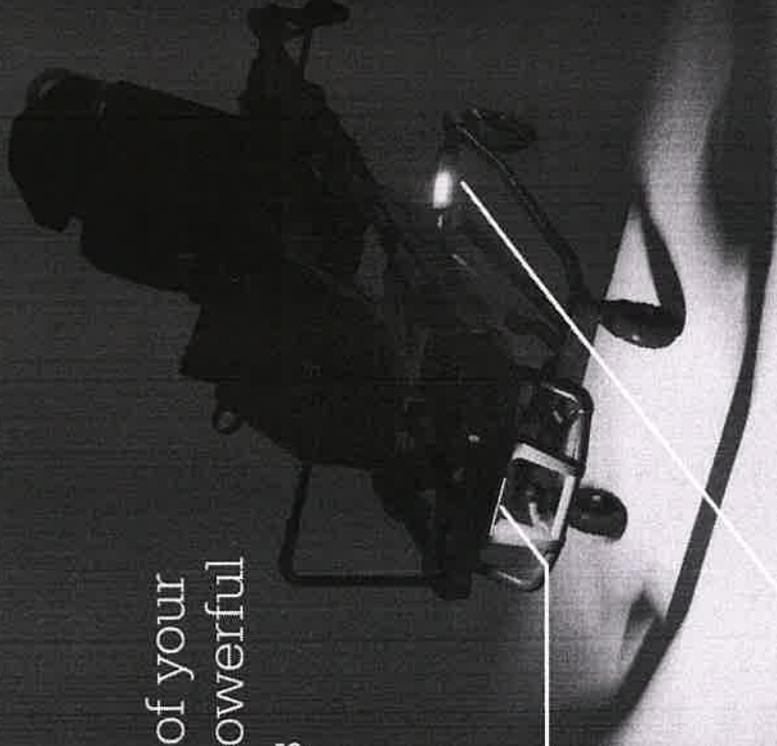
Restraint strap attachment locations should provide strong anchorage and proper restraint position (Figure 21). If you do not use the restraint strap attachment locations shown below, the cot is not crash-rated.

Do not allow restraint straps to interfere with equipment or accessories. Buckle the restraints across the shoulders, waist, thighs, and ankles. Buckle all restraint straps when the cot is not in use.

1. Attaching the X-restraint/XPR shoulder restraints (page 39)
2. Attaching the X-restraint/XPR waist restraints (page 40)
3. Attaching the X-restraint/XPR thigh restraints (page 40)
4. Attaching the X-restraint/XPR ankle restraints (page 41)

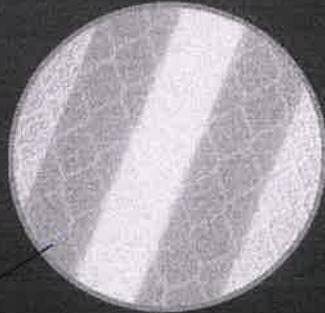
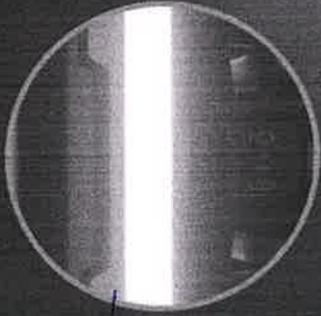
See and be seen

Create a clear view of your environment with powerful lights and reflectors



foot end light

reflective legs



13.

15.

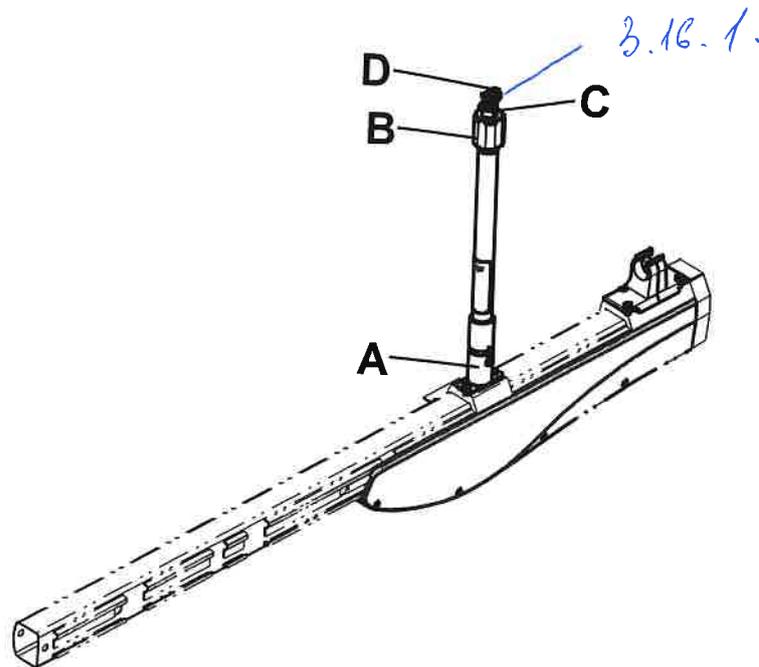


Figure 34 – Two-stage IV pole

Positioning the three-stage IV pole option

CAUTION - Do not load the IV pole above the safe working load of 25 lb (11.3 kg).

3.16.3.

To position the IV pole (Figure 35):

1. Lift and pivot the IV pole from the storage position. Push down until the IV pole locks into the receptacle (A).
2. To raise the height of the IV pole, turn the locking collar (B) counterclockwise and pull up on the telescoping section (C). Raise the IV pole to the desired height.
3. Turn the locking collar (B) clockwise to lock the telescoping section in place. 3.16.2.
4. For a higher IV pole, pull up on section (D) until the spring clip (E) connects.
5. Hang the IV bags on the IV hook (F).
6. To lower the IV pole, push in on the spring clip (E) and slide section (D) down into section (C). Turn the locking collar (B) counterclockwise and slide section (C) into the bottom tube.
7. Turn the locking collar (B) clockwise to tighten.
8. Lift up and pivot the pole down into the storage position.

16.

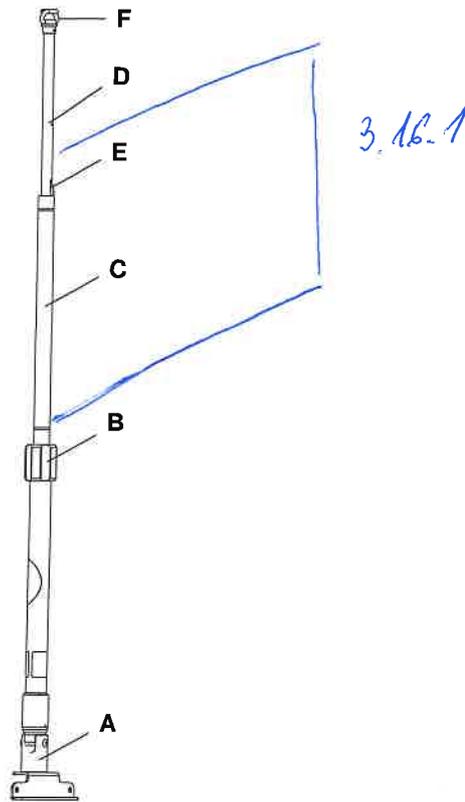


Figure 35 – IV pole raised position

Attaching an oxygen bottle to the oxygen bottle holder option

CAUTION

- Do not load the oxygen bottle holder above the safe working load of 15 lb (6.8 kg).
- Do not use two oxygen bottle holders at the same time.

To attach an oxygen bottle to the oxygen bottle holder:

1. Place an oxygen bottle in the holder.
2. Insert the lower strap through the buckle and affix the strap onto itself to secure the oxygen bottle to the holder.

Note

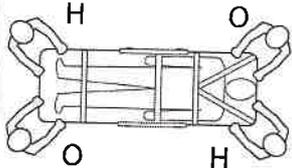
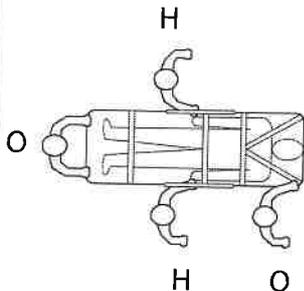
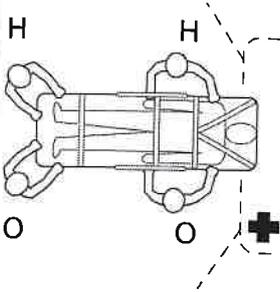
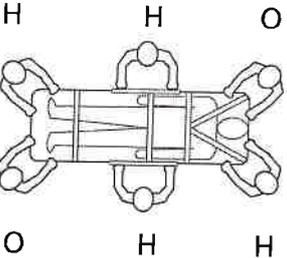
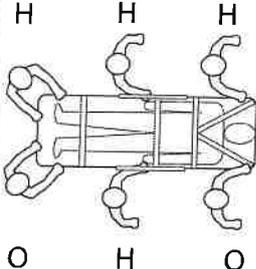
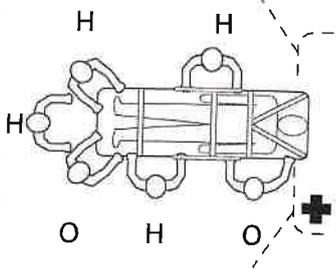
- Do not use the oxygen bottle holder to hold an oxygen bottle holder when the transport vehicle is in motion. Always place the oxygen bottle holder in an appropriate storage location when the transport vehicle is in motion.
- Inspect the straps and clips for wear between use. Replace the strap if it no longer holds the oxygen bottle.

Attaching the base storage net option

CAUTION

- Do not load the base storage net above the safe working load of 20 lb (9 kg).
- Always be careful when you retract the base to avoid damaging items that are stored in the base storage net.

To attach the base storage net, wrap the **Velcro®** straps around the base tubes.

	Changing levels	Rolling	Loading and unloading
Two operators (O) Two helpers (H)			
Two operators (O) Four helpers (H)			

Raising or lowering the backrest

To raise the backrest, squeeze the backrest adjustment handle to move the backrest to the desired height.

To lower the backrest, squeeze the backrest adjustment handle while you push down on the backrest to the desired height.

Raising or lowering the siderails

Always lower the siderails when you transfer a patient to the cot or from the cot.

CAUTION

- Do not use siderails as a patient restraint device.
- Do not use siderails as a push/pull device or to steer the product.

To raise the siderails, lift up on the siderail until the latch clicks and the siderail locks into place. Always keep the siderails in the raised position unless you are transferring the patient.

To lower the siderails, squeeze the siderail release handle to release the siderail latch. Guide the siderail down toward the foot end of the cot until the siderail lays flat. Always lower the siderails when you transfer a patient to or from the cot.

Raising or lowering the siderails (XPS option)

You can order your cot with the expandable patient surface (XPS) option or upgrade your cot to add the XPS option.

CAUTION

- Do not use siderails as a patient restraint device.
- Do not sit or stand on the siderails (XPS option).
- Do not use the siderails (XPS option) as a patient transfer device or surface (for example, to slide a patient from the cot to another surface).
- Do not position patients with full weight on the siderails (XPS option).

Reference	Name	Description
D	Release or transport height	<p>Press to unlock the cot (this function operates only when within range of a Power-LOAD cot fastener)</p> <p>Press to raise or lower the cot to transport height</p> <p>Note - The cot will stop moving when you reach transport height.</p>
E	Extend (+)	Press and hold to raise the litter or extend the cot undercarriage

Raising or lowering the cot manually with the manual override

In the event of loss of electrical function, you can use the cot manual override. This allows manual operation of the cot until the restoration of the electrical, powered functions. Use the red manual back-up release handle to raise or lower the cot.

WARNING

- Always keep hands, fingers, and feet away from moving parts. Use caution when you place your hands and feet near the base tubes to raise or lower the cot.
- Always follow proper hand placement on hand grips. Keep all hands clear of the red safety bar pivots when you load, unload, or change the cot height position.
- Do not raise or lower the cot while you are on rough or uneven terrain.

The manual back-up release handle is located along the patient right side of the lower lift bar at the foot end of the cot.

To raise or lower the cot with the manual back-up release handle:

1. Both operators: Lift the cot during the raise or lower operation to support the weight of the cot at each end.
2. Operator 1 (foot end):
 - a. Pull the manual back-up release handle toward the lift bar.
 - b. While you pull the manual back-up release handle, raise or lower the cot to the desired position.
 - c. Release the handle to lock the cot into position.

Note - Both operators must lift the cot weight off of the transport wheels to use the manual extend or retract while a patient is on the cot.

Applying or releasing a wheel lock or Steer-Lock

WARNING

- Do not apply a wheel lock when a patient is on the product or when you move the product to avoid the risk of a cot tip or injury.
- Do not replace or apply a wheel lock on a product with worn transport wheels that are less than 6 in. diameter.
- Do not leave a patient unattended. Hold the product while a patient is on the product.

Note - Wheel locks help prevent the product from rolling while unattended. Wheel locks may not provide sufficient resistance on all surfaces or under loads.

To apply a wheel lock (A), press the red pedal down and away from the middle of the cot X-frame (Figure 11).

To apply **Steer-Lock** (B), press the red pedal down and toward the middle of the cot X-frame (Figure 12).

To release a wheel lock or **Steer-Lock (C)**, press down on the top of the pedal with your foot or lift up on the pedal with your toe. The top of the pedal will rest against the caster frame when you release the wheel lock or **Steer-Lock (Figure 13)**.

Note - You can apply a wheel lock or **Steer-Lock** from the head end or foot end of the cot.

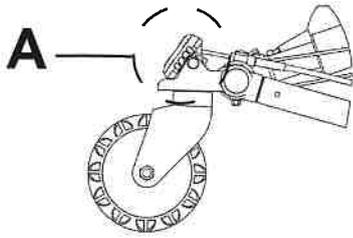


Figure 11 – Wheel lock on

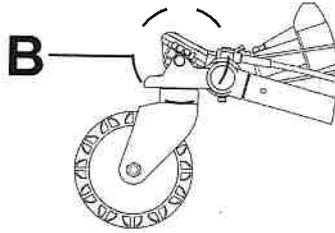


Figure 12 – Steer-Lock on

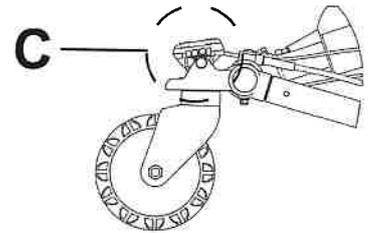


Figure 13 – Wheel lock and Steer-Lock off

Rolling the cot with a patient

WARNING

- Always transport the cot at transport height or the lowest possible height to reduce the risk of a cot tip. If possible, obtain additional assistance or take an alternate route.
- Always avoid high obstacles, such as curbs, steps, or rough terrain to avoid the risk of a cot tip or injury.
- Always center the patient and equipment or accessories. Lock adjustable features and intended lift points before you transport a patient on the product.
- Do not apply a wheel lock when a patient is on the product or when you move the product to avoid the risk of a cot tip or injury.
- Always use the specified push/pull locations to reduce the risk of a cot tip or injury.
- Always stow and latch the transport handle before you load, unload, or use the transport handle to lift the cot.

CAUTION - Do not use siderails as a patient restraint device.

To roll the cot with a patient:

1. Press the release or transport height button.

Note

- For patients who weigh 500 lb (227 kg) or less, use the transport height feature.
 - For patients who weigh more than 500 lb (227 kg), transport at the lowest possible height.
2. Position one operator at the foot end and one operator at the head end of the cot.
 3. Apply **Steer-Lock** (see *Applying or releasing a wheel lock or Steer-Lock* (page 29)).
 4. Check that the litter is perpendicular when you approach door sills or other low obstacles.
 5. Lift each set of transport wheels over the door sill or obstacle separately.

Pushing or pulling the cot with the transport handle

WARNING

- Always transport the cot at transport height or the lowest possible height to reduce the risk of a cot tip. If possible, obtain additional assistance or take an alternate route.
- Always avoid high obstacles, such as curbs, steps, or rough terrain to avoid the risk of a cot tip or injury.

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 <i>Standards with required options</i> (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.

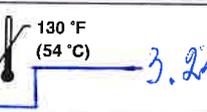
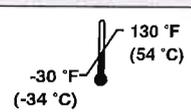
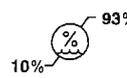
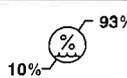
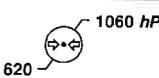
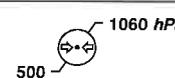
Stryker reserves the right to change specifications without notice.

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		
Relative humidity		
Atmospheric pressure		

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

21.

Safe

- Dynamically crash tested with the Power-PRO XT cot to meet AS/NZS-4535, BS EN-1789 and SAE J3027, improving caregiver safety in the back of the ambulance.
- Helps minimize patient drops by supporting the cot until its wheels are on the ground.

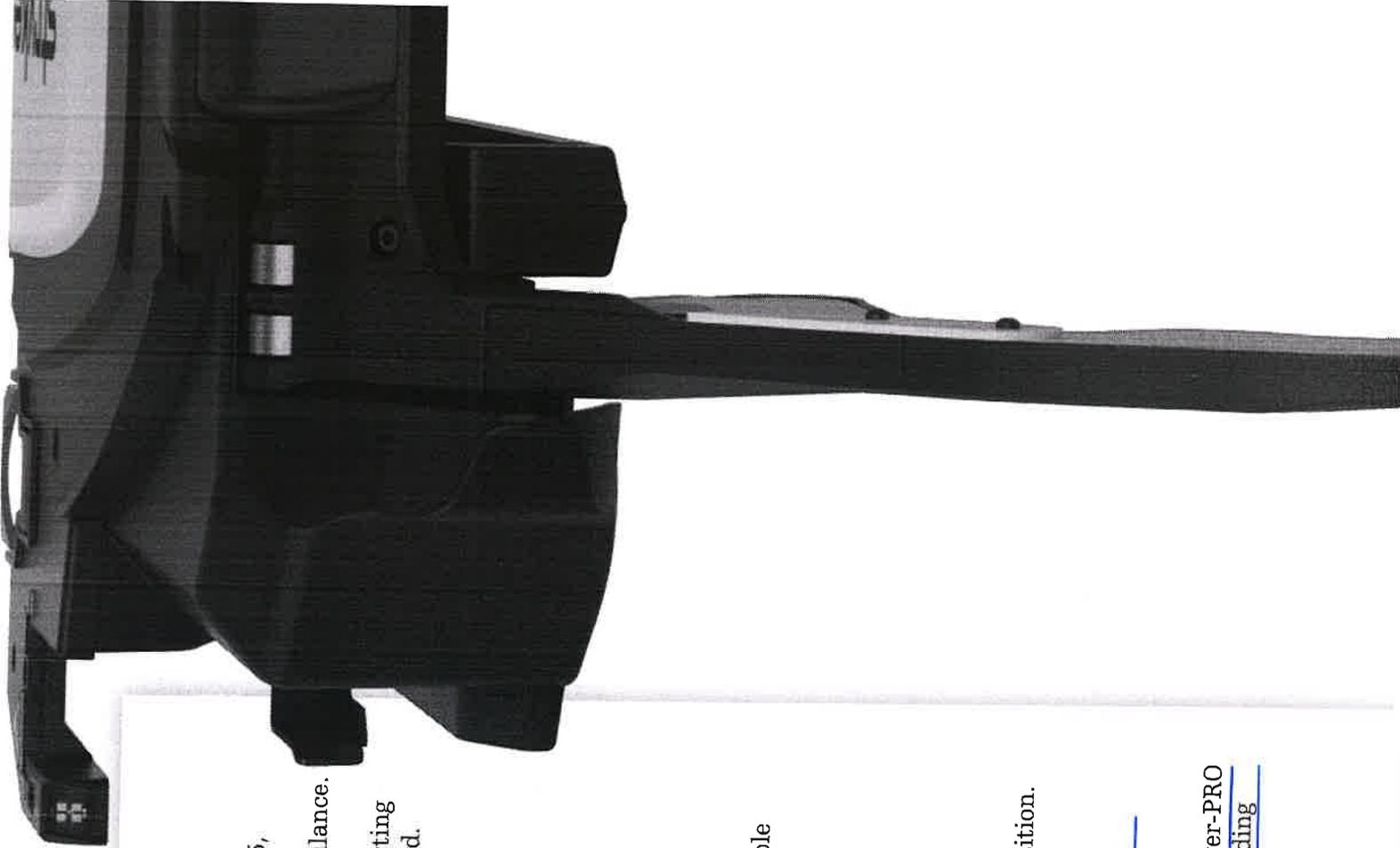
Durable

- Ergonomically designed to help reduce caregiver injuries, Power-LOAD lifts patients weighing up to 700 pounds.
- Power-LOAD and Power-PRO have been rigorously tested as a system to be reliable throughout the life of the products.

Easy to Use

- Inductively charges your Power-PRO cot SMART battery when in the transport position.
- Improved guided load and unloaded functionality eliminate the need to steer the cot into and out of the ambulance.
- Wirelessly communicates with your Power-PRO cot to control cot functionality when loading and unloading.

h.s.



Our Technical Support comprises a team of professionals available to help with your Performance-LOAD needs. Contact via phone at 1 800 STRYKER or email at medicaltechnicalsupport@stryker.com

Stryker's ProCare Services

When lives are at stake, you need someone who takes a proactive approach to keeping your equipment up and running.

Imagine having someone dedicated to managing your equipment, who truly understands the intricacies of EMS and can anticipate your needs before an issue even arises. We'll make sure your lifesaving devices and back-saving equipment is ready when you need it. With ProCare Service, you can count on trusted experts dedicated to caring for your equipment, so you can focus on what truly matters - saving lives.

All ProCare plans include:

- Stryker original equipment manufacturer parts
- Labor and travel expenses.
- Unlimited repairs to restore equipment to manufacturer specifications
- Responsive support from your field service representative
- Option to include preventive maintenance inspections
- Option to include battery service and replacement

Flex Financial Program

Our financial programs provide a range of smart alternatives designed to fit your organization's needs. We offer flexibility beyond a cash purchase with payment structures that can be customized to meet budgetary needs and help to build long-term financial stability. Contact your account manager for more information.

3800 E. Centre Avenue
Portage, MI 49002 USA
t: 269 329 2100
toll free: 800 327 0770

www.ems.stryker.com

Model Number	6390
Length	
Overall length	95 in. (241 cm)
Minimum length	89.5 in. (228 cm)
Width	
Weight	24.5 in. (62 cm)
Total weight	211.5 lb (96.5 kg)
Floor plate assembly	16.5 lb (7.5 kg)
Anchor assembly	23 lb (10.5 kg)
Transfer assembly	67 lb (30.5 kg)
Trolley assembly	105 lb (48 kg)
Maximum weight capacity*	700 lb (318 kg)
Minimum operator required	
Occupied cot	2
Unoccupied cot	1
Recommended loading height	22 in to 36 in (56 cm to 91 cm)
Battery	12VCD, 5 Ah lead acid battery (6390-001-468)

Stryker reserves the right to change specifications without notice.

Warranty

- One-year parts, labor, and travel or two-year parts only
- Lifetime on all welds

Extended warranties available.

7-year service life.

Maintenance agreements are available for service beyond its expected service life.

Stryker Corporation or its divisions or other corporate affiliated entities own, use or have applied for the following trademarks or service marks: **Flex Financial, Performance-PRO, Power-LOAD, Power-PRO, ProCare, Stryker**. All other trademarks are trademarks of their respective owners or holder.

*Maximum weight capacity represents patient weight and accessories. Safe working load of 870 lb (395 kg) represents the sum of the cot total weight and patient.

The Power-LOAD Cot Fastener System is designed to conform to the Federal Specification for the Star-of-Life Ambulance KKK-A-1822.

1. Sanders, Mick J. (2011) Mosby's Paramedic Textbook (4th ed., p. 36)
 2. Please contact your sales representative to see if you qualify for the EMS Guarantee.
 3. Subject to the terms and conditions of EMS proven to save guarantee agreement.
 4. Reference: Stryker (2018). EMSSat - Norman Regional Health System Case Study (Case Study on Power-PRO XT cots and Power-LOAD cot fastening systems). Retrieved from: <http://ems.stryker.com>
 5. Reference: Stryker. (2012). Superior Ambulance Case Study (Case Study on Power-PRO XT cots). Retrieved from: <http://ems.stryker.com>
 6. <https://www.osha.gov/dcsip/smallbusiness/safetypays/estimator.html>. As of August 1, 2018 with a 3% profit margin for strain.

Power-LOAD

Power-loading cot fastener system

4.2. **Lifts and lowers the cot into and out of the ambulance, reducing spinal loads and the risk of cumulative trauma injuries.**

4.3. The Power-LOAD cot fastener system is designed to improve operator and patient safety by supporting the cot throughout the loading and unloading process. The reduction in spinal load helps prevent cumulative trauma injuries. Power-LOAD wirelessly communicates with Power-PRO cots for ease of operation and operator convenience.¹

Key features and benefits

- Lifting arms
- Head end LED indicators
- Cot release handles
- Linear transfer system
- Duplicate LED indicator
- Manual trolley release
- Inductive charging
- Control panel
- Battery indicator
- Foot end release
- Safety hook
- Trolley

Head-end LED indicators

Keeps operator informed of position status. Solid green when in position or ready to transport; flashing amber when not in position or not ready to transport.

Manual cot release

Allows cot to be unlocked once all the wheels are on the ground.

Linear transfer system

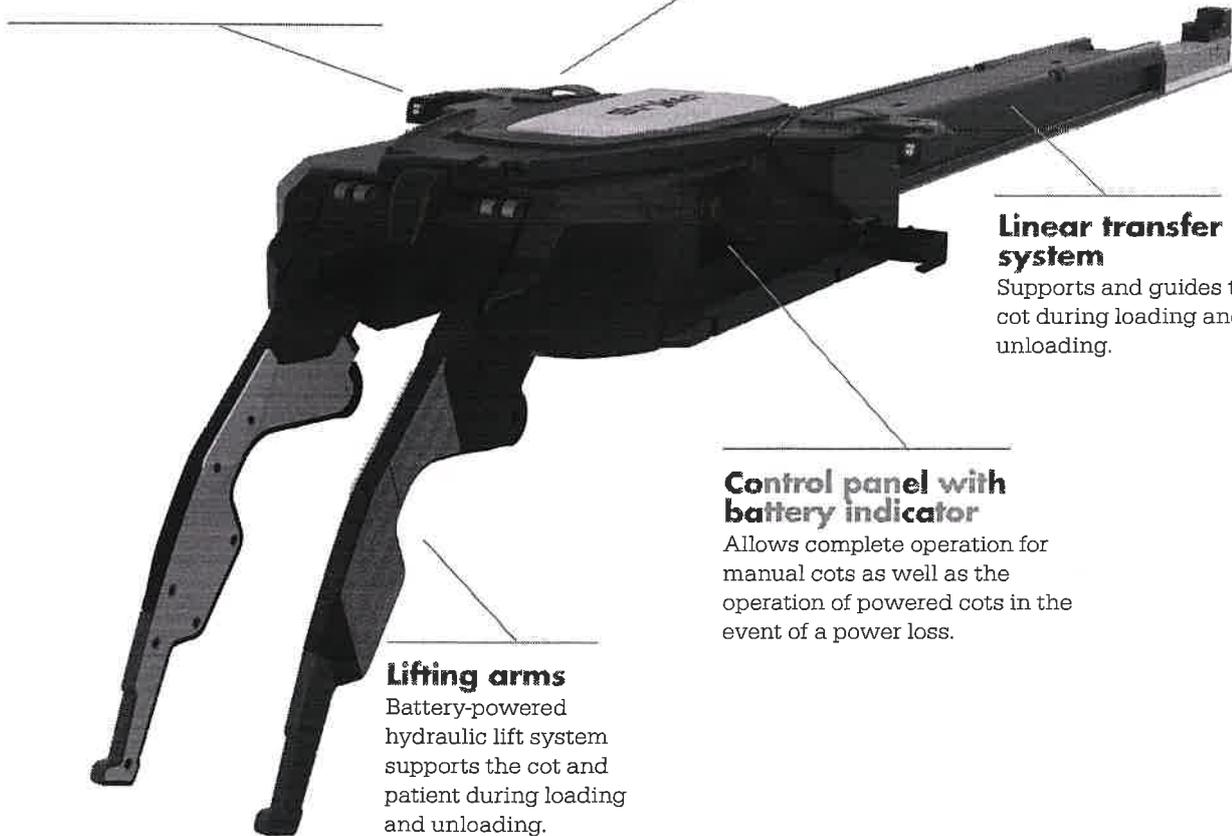
Supports and guides the cot during loading and unloading.

Control panel with battery indicator

Allows complete operation for manual cots as well as the operation of powered cots in the event of a power loss.

Lifting arms

Battery-powered hydraulic lift system supports the cot and patient during loading and unloading.



¹ Evaluation of Medical Cot Design Considering the Biomechanical Impact on Emergency Response Personnel - T.K. Fredericks, S.E. Butt, K.S. Harms, J.D. Burns XXVth Annual Occupational Ergonomics and Safety Conference.

24

Rugged-X Restraints

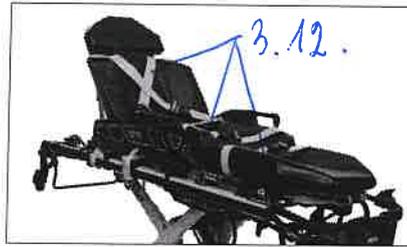
3.12.4.

Rugged-X restraints are equipped with a polyurethane coated webbing designed to support cleanability. The bright yellow coated webbing can help caregivers to see the restraints on the cot, identify soils, and expedite cleaning time.

Key features and benefits

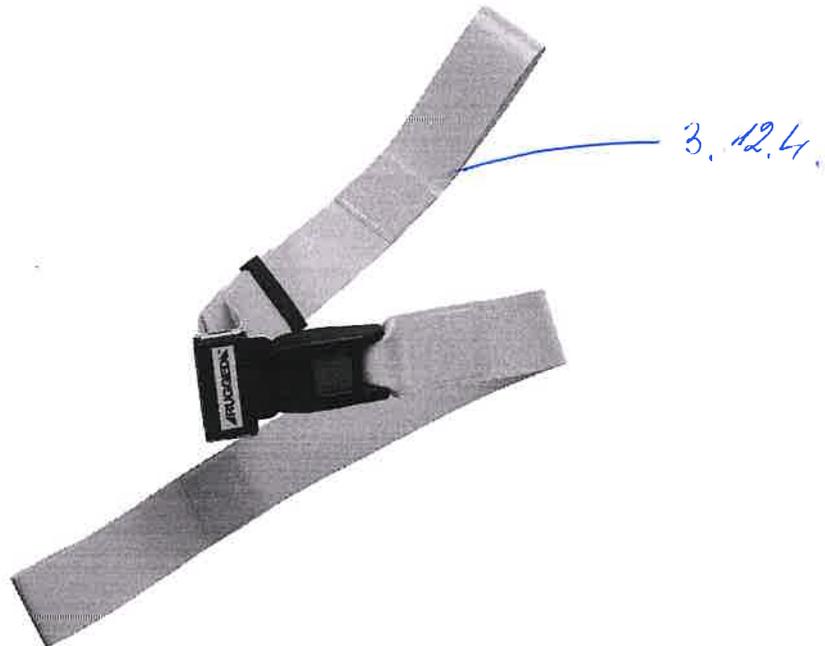
3.12.4.

- **Reliable:** Dynamically crash tested to meet BS EN-1789 crash safety standard*. Light color helps caregivers identify soils on the restraint webbing.
- **Durable:** Polyurethane coating protects underlying webbing from damage due to abrasion. Rated for extreme temperatures between -41°C to 54 °C.
- **Resistant:** Soil resistant coated webbing makes Rugged-X easy to clean. Cleanable polyurethane coating can help to expedite the time to clean and dry restraints.

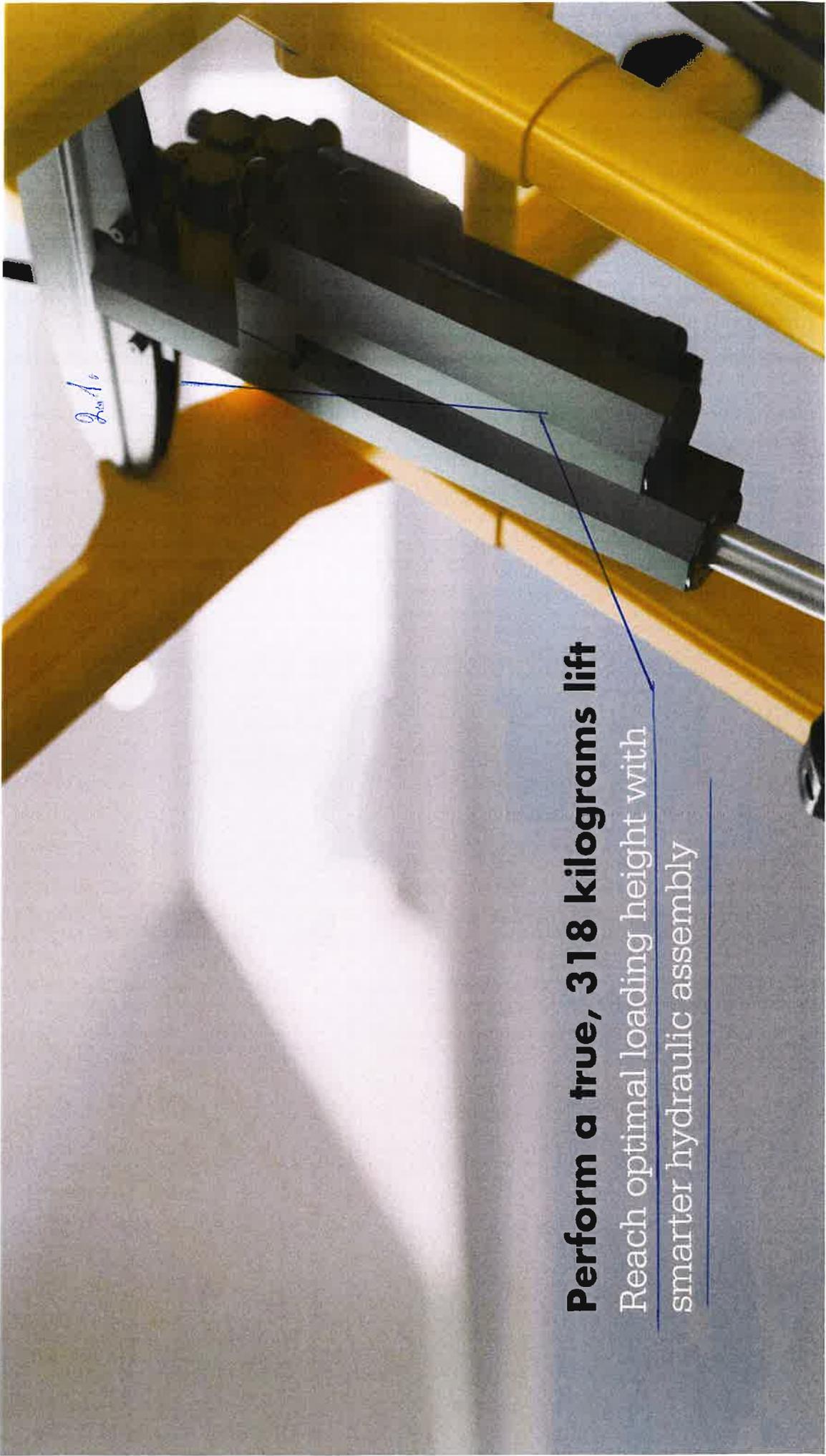


Compatibility options

Rugged-X restraints are compatible with Power-PRO XT, Performance-PRO XT and Power-PRO TL ambulance cots.



* Meets BS EN-1789 dynamic crash standard with Power-LOAD cot fastener system used with Power-PRO XT ambulance cot, Power-LOAD cot fastener system used with Performance-PRO XT ambulance cot, Performance-LOAD cot fastener system used with Power-PRO XT ambulance cot, Power-PRO TL ambulance cot with fastener.



Perform a true, 318 kilograms lift

Reach optimal loading height with smarter hydraulic assembly

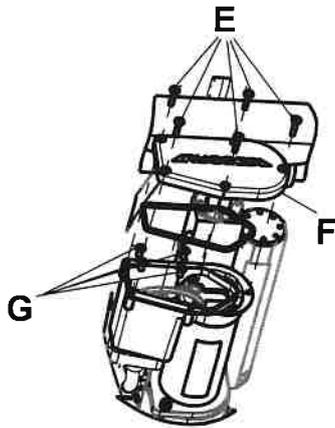


Figure 91 – Remove the hydraulic motor assembly electrical box screws

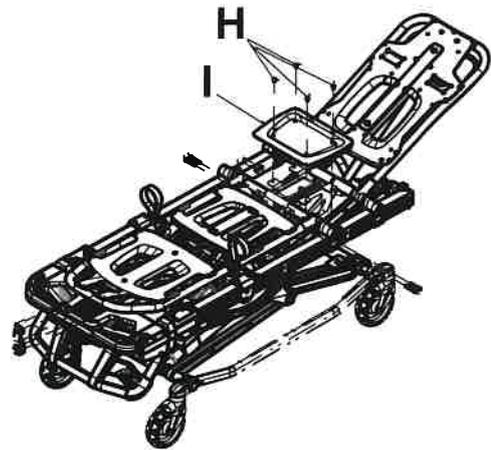


Figure 92 – Remove the screws and seat skin

22. Disconnect the two quick disconnect connections (HBC strain gauge external cable assembly and the solenoid/transducer external cable assembly) from the HBC enclosure assembly.
23. Using a T25 Torx driver, remove the three screws (J) that secure the HBC enclosure assembly (K) to the bird cage (L) (Figure 93). Save the screws.
24. Using a T25 Torx driver and a 3/8" combination wrench, remove the screw (M) and nut (N) that secure the wireless module, if equipped, and the NFMIC module to the cot, if equipped (Figure 94). Save the screw and nut.

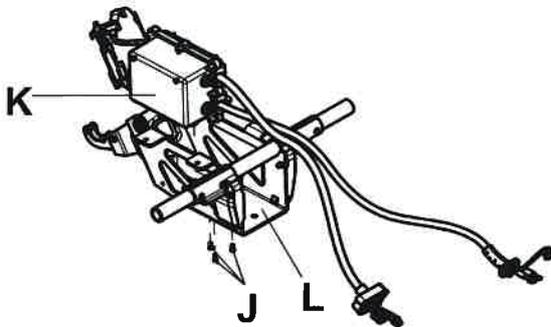


Figure 93 – Remove the HBC enclosure screws

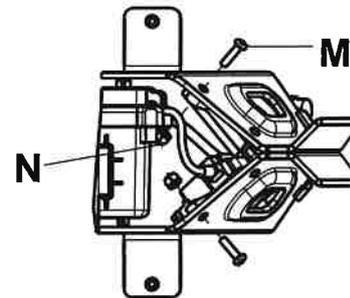


Figure 94 – Remove the screw and nut

25. Lift the HBC enclosure assembly up through the seat section to access the screws that secure the HBC top cover.
26. Using a T20 Torx driver, remove the seven screws (O) that secure the top cover (P) to the HBC enclosure assembly (Figure 95). Remove and save the top cover. Save the screws.

Note - Using a torque screwdriver, torque the screws (O) to 1.49 - 1.83 ft-lb when you reinstall.

XPS - Expendable Patient Surface

XPS Side Rail and XPS G-Rated Bolster Mattress

- Option compatible with Power-PRO XT, Power-PRO 2
 - Can be adjusted to fit every patient and environments
 - Fits through standard doors and into lifts
 - Release handles for enhanced safety
 - Broader mattress for enhanced patient comfort
 - Reduced transfer gap
 - Bolster mattress fit closely the side rail
 - Extremely stable and durable, made of aluminium
 - Compliant with tip stability and dynamic crash certifications*
- *Certified to IEC 60601-1

3.1.

28.

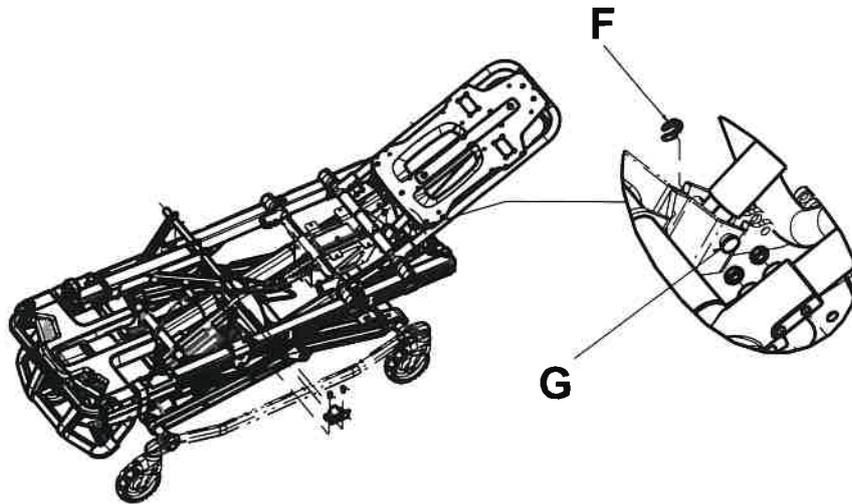


Figure 7 – Remove the truarc ring and Fowler cylinder pin

- d. Thread the cylinder into the yoke until no threads are visible on the cylinder shaft.
- e. Using a small slotted screwdriver, reinstall the truarc ring and Fowler cylinder pin (removed in step 3c).
- f. Using **Loctite®** and a 3/32" hex wrench, reinstall the set screw (removed in step 3b).
4. Using a 1/2" combination wrench, loosen the hex nut (I) on the backrest pivot while using a 5/32" hex wrench to hold the set screw (J) fixed in the pivot (Figure 8).
5. Using a 5/32" hex wrench, turn the set screw until there is no movement between the backrest release handle and the pneumatic cylinder release button.

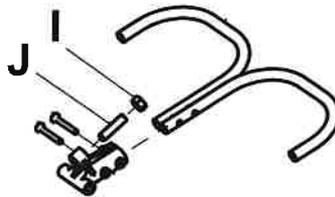


Figure 8 – Loosen the hex nut

6. Check that the backrest travels from flat to the full raised position. If it does not, turn the set screw clockwise half of a turn. Repeat until the backrest can achieve at least 75 degrees of movement.
7. Verify proper operation before you return the product to service.

Backrest pneumatic cylinder replacement

3.10.2.

Tools required:

- **Loctite®**
- 1/2" combination wrench
- 5/32" hex wrench
- 3/32" hex wrench
- Small slotted screwdriver
- T25 Torx driver

Procedure:

1. Raise the product to the highest height position.

Power-PRO™ 2

Your talk track

15. Expandable patient surface (XPS) (option)

- XPS is the integrated adjustable siderail system of the cot, offering seven locking positions for increased cot surface area`
- At its widest position, XPS adds 25 cm to the overall width of the cot, which is a 38 percent increase`
- Features a G-rated bolster mattress that adjusts with the XPS wings to help reduce patient transfer gap
- XPS mattress is designed with slits that allow the restraints to come through the mattress at the shoulders, keeping the patient in a more centered position

16. X-restraints

- Properly secured restraints are an integral piece of patient safety
- Stryker's X-restraints are required for a dynamically crash-rated system that meets SAE J3027 guidelines and BS EN-1789:2020 guidelines
- Locate labels on the cot for proper placement

17. Retractable head section

- The two lifting points on the head section are the retractable head section bar and the safety bar
- The safety bar release is designed to keep hands away from the cot mechanism and provides a lower lifting point for shorter operators
- Features a one-hand release which telescopes into the frame of the cot, shrinking the overall length from 213 cm to 152 cm
 - Extended: 213 cm
 - Mid/standard: 206 cm
 - Retracted/short: 152 cm
- Even when fully retracted, the cot maintains a versatile 360-degree mobility at any height position
- Ends at the same plane as the wheelbase, providing a true flat line from foot end to head end

3,15,2

30.

Power-PRO 2

stryker

- Perform a true, 318 kg unassisted lift
- Reach optimal loading height using smarter hydraulic assembly with load-sensing capabilities
- Mattress is made of liquid (e.g. blood, disinfection materials) proof material



3/10

3.11.10

Power-LOAD (Model 6390)

Roadmap

3. Easy to use

- Intuitive, single-handed user activations
- Power-LOAD inductively charges Power-PRO XT cot SMRT battery when in transport position
- Improved guided load and unload functionality, eliminates the need to steer the cot into and out of the ambulance
- Wirelessly communicates with Power-PRO XT cot to control cot functionality when loading and unloading

In-Service: Unloading

When demonstrating Power-LOAD cot fastener, it is always a best practice to start with the Power-LOAD trolley in the transport position.

4.5.

- 1. Removing from the ambulance:** cot is fixed in Power Load and can be released from transport position in the Power-LOAD cot fastener by pressing and holding the red release lever at the foot-end and pulling the cot towards you.
 - Mention how the cot jogs up to show you that the system is on and working
- 2. Weight capacity:** The patient capacity is, 317 kg with a safe working load of 394 kg.
- 3. Patient drops:** The Power-LOAD cot fastener minimizes patient drops by supporting the cot until all four cot casters are on the ground.
- 4. Lifting arms:** Powered by hydraulic lift system. The arms support the cot and patient during loading and unloading.
 - Reduces spinal loads that can result in cumulative trauma
- 5. Securing ambulance:** Power-LOAD cot fastener lifting arms can be lifted up and placed back into the ambulance, allowing for the doors of the ambulance to be shut when operators leave the ambulance unattended.
 - Rubber stops-included in the design to accommodate parking inclines or declines to keep the Power-LOAD system in position when you come back to the ambulance.

In-Service: Loading

- 1. Removing From Ambulance:** Open the ambulance doors, lift up on the Power-LOAD arms, and pull the trolley back out of the ambulance until head-end indicators turn on.
- 2. LED Indicators:** Guide the Power-PRO/Performance-PRO towards the flashing amber LED indicators until the cot load wheel pins have engaged the trolley, making the head end LED indicators a solid green.
- 3. Wireless Communication:** Once the stretcher is grasped firmly, foot end operator can hold down the minus button to raise the Power-LOAD arms and the Power-PRO legs until they stop.
 - For Performance-PRO, operator 1 will raise Power-LOAD arms by using the Power-LOAD control panel and then manually raise the cot legs, while operator 2 supports foot end of cot and pulls the red manual release lever on the cot
- 4. Inserting Into Ambulance:** When cot legs are fully retracted, gently control the cot into the back of the ambulance until it is fastened into the Power-LOAD system.
 - Ensure that the cot is locked into Power-LOAD by firmly pulling side-to-side on the foot end of the cot.
- 5. Inductive Charging:** Power-LOAD automatically charges the cots SMRT battery and Power-LOAD battery when in transport position (no cable or connection required).

1 Psl.

- 2.1. Paciento transportavimo vežimėlis su motorizuota pavara – Power Pro2 (Stryker).
- 3.15.2. Bariatrinė padėtis leidžianti transportuoti sunkius pacientus.
- 3.15.1. Atlenkiami ir nulenkiama.

2 Psl.

- 2.1. Stryker“ Power-PRO 2 yra elektriniai greitosios medicinos pagalbos automobilio neštuvai, kuriuos sudaro platforma, įskaitant čiužinį, pritvirtinta ant ratinio, susilankstančio X rėmo, kuris skirtas išlaikyti ir transportuoti ne daugiau kaip 700 lb (318 kg) svorį.
- 3.1. Įkraunama baterija Alvarium™ maitina hidraulinę kėlimo sistemą ir suteikia operatoriams galimybę neštuvus pakelti ir pažeminti naudojantis ant kėlimo turėklų esančiais kojūgalio valdikliais.
- 3.13. Kojūgalyje įtaisyti šviesos diodų žibintai apšviečia kelią transportuojant, o atšvaitai suteikia neštuvams matomumą.
- 3.17.2. Visų keturių ratukų sukimosi kampas 360°.
- 2.1. Power Pro2 neštuvai
- 2.2. Power Load įkėlimo iškėlimo platforma suderinama su PowerPro neštuvais.

3 Psl.

- 2.2. Automatizuoto įkėlimo ir iškėlimo platforma –PowerLoad Stryker.
- 4.1. Automatizuoto įkėlimo ir iškėlimo platforma Power Load, gamintojas Stryker kaip ir Power Pro 2 neštuvų.

4 Psl.

- 2.2. Automatizuoto įkėlimo ir iškėlimo platforma –PowerLoad Stryker.
- 3.4. Integruotas mašinoje, skirtas pakelti ir nuleisti pacientų transportavimo vežimėlių.

5 Psl.

- 3.1. Pagrindas per visą neštuvų ilgį ant „X“ formos aliuminio medžiagos rėmo su hidrauline pakėlimo ir nuleidimo sistema.
- 3.12.1. -3.12.3. Paciento saugos diržai: pečių, juosmens, kojų.
- 3.15.1. Pakelti porankiai.

6 Psl.

- 3.2. Elektra valdomos pakėlimo ir nuleidimo funkcijos.
- 3.14.2. Čiužinys leidžiantis atlikti visas pozicijas.
- 3.10.2. Nugaros atramos pakėlimas.
- 3.15.1. Pakelti porankiai.

7 Psl.

- 3.2. Elektra valdomos pakėlimo ir nuleidimo funkcijos.
- 3.8. Sutraukiama ir / arba paaukštinama rankena stumti / traukti vežimėlių.

8 Psl.

- 3.2. Elektra valdomos pakėlimo ir nuleidimo funkcijos.

9 Psl.

- 3.3. Aukščio keitimo diapazonas - 36,6 - 104 cm.
- 3.5. Minimalus ilgis – 152,4 cm. (sustūmus galvūgalį ir kojūgalį).
- 3.4. Maksimalus ilgis - 213,4 cm.
- 3.6. Plotis – 57,4 cm
- 3.7 ir T4 - Neštuvų vežimėlio svoris su baterija (be čiužinio ir diržų) – 59 kg.
- 3.17.1. Keturi ratukai, kurių skersmuo 15 cm, plotis 5 cm.
- 3.10.1. Nugaros atramos kampas - 75°
- 3.11. Šoko pozicijos kampas - 15°
- 3.19. Leistina vežimėlio apkrova – 318 kg
- 3.20. Maksimalus vežimėlio pakrovimo į reanimobilį aukštis – 91 cm.

10 Psl.

- 3.8. Sutraukiama ir / arba paaukštinama rankena stumti / traukti vežimėlių
- 3.14.2. Čiužinys leidžiantis atlikti visas pozicijas.

11 Psl.

- 3.9. Integruota ličio jonų baterija - su įkrovimo lygio indikatoriumi.

12 Psl.

- 3.9. Integruota ličio jonų baterija - su įkrovimo lygio indikatoriumi.
- 3.10.2. Nugaros atramos kampas – reguliuojamas su pneumatiniu pakėlėju.
- 3.17.4. Visi ratukai su stabdžiais.

13 Psl.

- 3.9. Integruota ličio jonų baterija - su įkrovimo lygio indikatoriumi.

14 Psl.

- 3.12.1-3.12.3. Paciento saugos diržai: pečių, juosmens, kojų.

- 15 Psl.**
3.13. Integruota apšvietimo lempa – LED.
- 16-17 Psl.**
3.16.1. Infuzinės lašinės stovas – ištraukiamas.
3.16.2. Infuzinės lašinės stovas - teleskopinis.
3.16.3. Infuzinės lašinės stovas – maksimali apkrova 11,3 kg.
- 18 Psl.**
3.15.1. Sudedami porankiai - atlenkiami ir nulenkiama.
- 19-20 Psl.**
3.17.3. Priekiniai ratukai fiksuojami, kad būtų galima judėti tiesia trajektorija.
- 21 Psl.**
3.21. Neštuvų darbinė temperatūra - Ribose – 34 °C iki +54 °C.
- 22 Psl.**
4.3. Integruotas mašinoje, skirtas pakelti ir nuleisti pacientų transportavimo vežimėlį.
- 23 Psl.**
4.4. Leistina apkrova – 318 kg.
- 24 Psl.**
4.2. Elektra valdomos funkcijos.
4.3. Integruotas mašinoje, skirtas pakelti ir nuleisti pacientų transportavimo vežimėlį.
- 25 Psl.**
3.12. Paciento saugos diržai: pečių, juosmens, kojų.
3.12.4. Diržai dengti poliuretano medžiaga.
- 26 Psl.**
2.1. Motorizuota pavara.
- 28 Psl.**
3.1. Neštuvų rėmas pagamintas iš aliuminio medžiagos.
- 29 Psl.**
3.10.2. Nugaros atramos kampas reguliuojamas penumatinio pakėlėju.
- 30 Psl.**
3.15.2. Bariatrinė padėtis leidžianti transportuoti sunkius pacientus. (Neštuvų rėmas prasiplečia).
- 31 Psl.**
3.14.1. Čiužinys - iš medžiagos nesugeriančios kraujo ir dezinfekcinių skysčių.
- 32 Psl.**
4.5. Neštuvų užrakinimo mechanizmas