

incare

Product catalogue

Biocontainment and patient handling systems

Isolation units **Motorized systems** **Other devices**

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INCARE

Biocontainment and patient handling systems

InCare is the medical device brand of Stretchers Industries OOD, a company founded in Sofia in 2021 as a spin-off of an Italian business with almost forty years in hospital supply. That heritage still guides our work: research, design and prototyping remain in Italy, while certified industrial manufacturing takes place at our plant in Bulgaria.

We design and manufacture pressure-controlled biocontainment systems — chairs, stretchers, beds, mobile anterooms, modular rooms and emergency tents — together with the power-assisted handling systems that move them through the hospital. Several of our devices are protected by European industrial patents.

Airborne infection did not end with the pandemic. Tuberculosis, measles, multidrug-resistant pathogens and a growing number of immunosuppressed, oncology, transplant and burn patients call for isolation that works in everyday practice, not only when an emergency is declared.

Our systems protect the patient and the staff at the same time: three-stage H14 HEPA filtration for biological risk up to BSL-4 grade, selectable positive or negative pressure, and no single-use materials to buy again once the unit is installed. Customization is our standard configuration, not an option: dimensions, accessories and fit-out follow the protocols and the spaces of the facility that will use the device.

We are among the few companies in Europe covering the entire biocontainment chain: design, manufacturing, certified maintenance and technical and regulatory support.

We build for a world better protected from threats that, until recently, could only be endured.

Every device in the pages that follow comes from that single aim.

H14

Three-stage HEPA filtration, 99.995% efficiency

BSL-4

Protection up to the highest grade of biological risk

0

Single-use materials to buy again after installation

IT·BG

Designed in Italy, certified manufacturing in Bulgaria



SECTION

01

Isolation units

Pressure-controlled biocontainment systems for the transport, hospitalization and isolation of infectious or immunosuppressed patients.

Our products are highly customizable to your requirements and require no single-use materials.

In this section



AURA 6

Pressure-controlled isolation chair



ERMES 8

Negative-pressure isolation system for BSL-4 grade biocontainment



ECATE+ 10

In-hospital transport stretcher with biocontainment system and motorized fifth wheel



HESTIA+ 12

Ward and step-down care bed with pressure-controlled isolation system and motorized fifth wheel



BIMBO 14

Electric pediatric bed with pressure-controlled isolation system



HELIOS+ 16

Specialized hospital bed for the care and in-hospital transport of severe burn patients, with motorized fifth wheel



PITHOS 18

Mobile anteroom for biocontainment patient rooms



PANDORA 20

Pressure-controlled modular biocontainment room



PYRRHA 22

Emergency biocontainment tent

AURA

Code STR MK1

Pressure-controlled isolation chair



FEATURES

- Allows an infectious or immunosuppressed patient to be transported with great ease
- Offers full protection to the patient and the medical staff at the same time
- Compact unit suited to any emergency room
- Ventilation system operating at positive or negative pressure
- Hull pocket for passing objects and equipment through in complete safety

AURA

Code STR MK1

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 1822-1:2019
- EN 60335-1:2012
- IEC 60335-2-65
- EN 61000-6-2:2005
- EN 61000-6-3:2007
- EN ISO 14644-1:2015
- EN 60601-1
- EN 60601-1-2
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	V08050104
RDM	2411721

DESCRIPTION

The AURA pressure-controlled isolation chair is a medical device designed to transport a patient, whether infectious or immunosuppressed, within any hospital environment.

AURA is intended for use in the emergency room and in every situation where a patient has to be moved safely, with the aim of preventing or minimizing the transfer of contaminated air from or towards contagious or potentially contagious patients with airborne infections (such as tuberculosis, measles, COVID-19 and others), or conversely for patients with fragile immune defences (such as AIDS, oncology and immunosuppressed patients).

The AURA mobile transport chair consists of a metal frame covered with a high-strength transparent polyvinyl chloride sheet.

AVAILABLE ACCESSORIES

- IV pole
- Object tray
- Oxygen cylinder holder
- Cable and tube pass-through sleeves
- Ports for sleeved gloves







INTENDED USE

Any in-hospital or peri-hospital setting, Dialysis Centers, Residential Care Homes, Airports, Ports, Large Ships, Emergency Department, Emergency Room



OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.

ERMES

Code STR MK3

Negative-pressure isolation system for BSL-4 grade biocontainment



THE PRODUCT

A negative-pressure biocontainment system for transporting patients suspected of having contracted airborne diseases. It protects healthcare workers and makes hospital environments safer during transfer to the place of care.

FEATURES

- Ready-to-use system
- Solid yet lightweight structure
- Full side opening for easy patient access
- Integrated gloves with sleeves
- Integrated space for equipment (IV pole, ECG cables and more)
- Safe Working Load (SWL) 200 kg
- Easy to sanitize and store

ERMES

Code STR MK3

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 1822-1:2019
- EN 60335-1:2012
- IEC 60335-2-65
- EN 61000-6-2:2005
- EN 61000-6-3:2007
- EN ISO 14644-1:2015
- EN 60601-1
- EN 60601-1-2
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1

DEVICE CODES

CND	Y123099
RDM	2179886

DESCRIPTION

The STR MK3 is designed to be placed on self-loading stretchers, hospital beds and in-hospital transport stretchers. It can also be used for any type of air transport.

The complete system consists of an all-aluminium structure; a medical-grade PVC chamber (3 pairs of gloves and a total of 10 ports allow 360-degree intervention on the patient); a filter for purifying contaminated air; a motor driving the filter; and a comfortable 5 cm mattress covered with a bi-elastic, breathable, antifungal, water-repellent, fire-retardant and easily sanitized fabric. No consumables are required.

Air filtration is performed by three-stage NBC (nuclear, biological and chemical) absolute HEPA filters at 99.995%, suitable for use at biological risk levels up to BSL-4 (compliant with EN 1822-1:2019). The motor driving the filter has a backup battery that allows it to operate independently. The filters are tested and validated for a maximum of 720 hours.

The chamber has external belts to secure it to transport stretchers and internal belts to protect the patient.











INTENDED USE

Out-of-hospital transport, Ambulances, Air ambulances, Medical aircraft



OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.

ECATE+

Code STR MK5

In-hospital transport stretcher with biocontainment system and motorized fifth wheel



THE PRODUCT

ECATE+ is a biocontainment unit designed to ensure a rapid response to and from the emergency room. It is the ideal tool for patients with highly contagious diseases or airborne infections, as well as for patient treatment and diagnosis, while reducing the physical effort required of medical staff and keeping the surrounding environment safe. The power-assisted motorized drive system allows one person to push and manoeuvre the stretcher effortlessly, even in confined spaces, thanks to a retractable motorized fifth wheel.

FEATURES

- HEPA motor and filter
- Integrated gloves with long sleeves (replaceable)
- Safety belts
- Fully openable on both sides
- Easy to sanitize and store
- No consumables required

ECATE+

Code STR MK5

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 1822-1:2019
- EN 60335-1:2012
- IEC 60335-2-65
- EN 61000-6-2:2005
- EN 61000-6-3:2007
- EN ISO 14644-1:2015
- EN 60601-1
- EN 60601-1-2
- EN 60601-2-52
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	**V08050104**
RDM	**2279186**



Also available without the motorized wheel

Specifications on p. 26

DESCRIPTION

The isolation unit is made of medical-grade PVC with 2 pairs of gloves and a total of 10 ports, allowing 360-degree intervention on the patient.

The stretcher at the base is made of painted steel, with the frame on 4 antistatic swivel castors and a lifting system on 2 hydraulic cylindrical columns. Height, lying surface, Trendelenburg and counter-Trendelenburg are operated by side pedals, while the backrest is adjusted by a power-assisted gas spring lever. The braking system with central locking is located above each castor.

The push handles give operators an optimal grip and carry the control for the motorized fifth wheel. Raised, the side rails provide maximum patient safety; lowered, they are completely out of the way, allowing gap-free transfers. Four rubber bumper rollers are fitted at each corner of the base frame.

The base frame is covered by an easily sanitized plastic casing housing a clothing compartment and a compartment for oxygen cylinders of up to 7 litres.

All metal parts are epoxy powder coated with an antimicrobial additive and given special chemical treatments to ensure both appearance and durability over time.

The filtration system uses three-stage H14 grade HEPA filters (nuclear, biological and chemical) with an efficiency of 99.995%, capable of protecting up to BSL-4 hazard grade (EN 1822-1:2019 standard). The motor is fitted with a backup battery that guarantees autonomous operation. The filters are tested and validated for a maximum of 720 hours.

INTENDED USE

Hospital Departments, Dialysis Centers, Emergency Department, Emergency Room



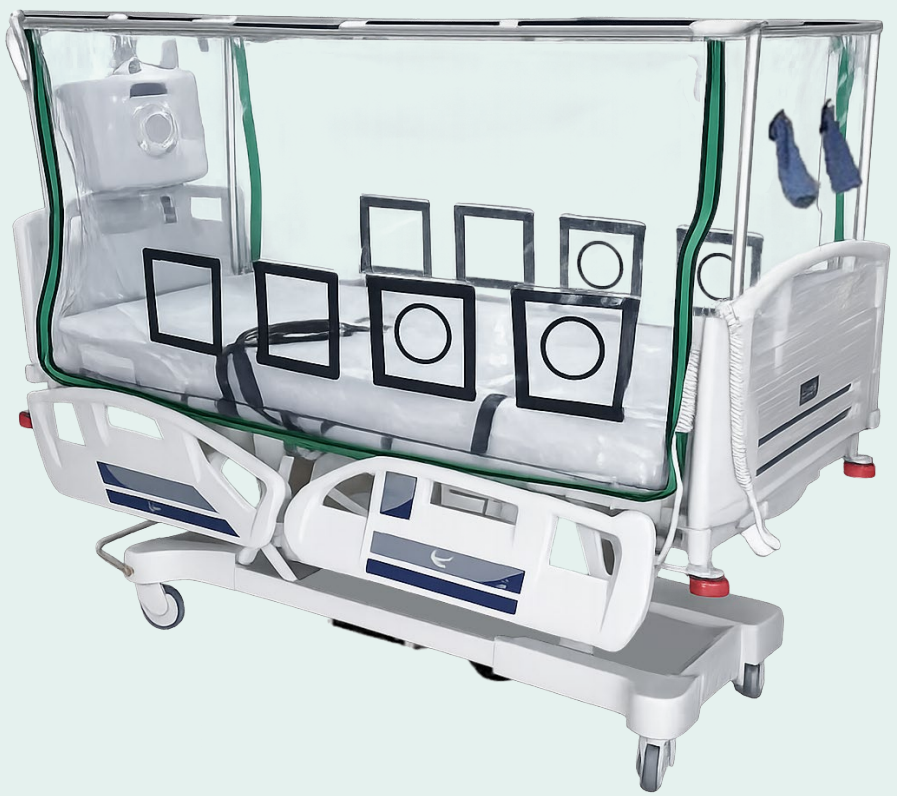
OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.

HESTIA+

Code STR MK8

Ward and step-down care bed with pressure-controlled isolation system and motorized fifth wheel



THE PRODUCT

The STR MK8 hospital bed with biocontainment system is designed for the transport, diagnosis and care of patients with high-risk airborne contagious diseases, in complete safety within the healthcare facility. The STR MK8 protects patients and medical staff alike.

FEATURES

- Motorized fifth wheel
- HEPA motor and filter
- Integrated gloves with long sleeves (replaceable)
- Safety belts
- Electrically powered movements
- Fully openable on both sides
- Easy to sanitize and store
- No consumables required

HESTIA+

Code STR MK8

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 1822-1:2019
- EN 60335-1:2012
- IEC 60335-2-65
- EN 61000-6-2:2005
- EN 61000-6-3:2007
- EN ISO 14644-1:2015
- EN 60601-1
- EN 60601-1-2
- EN 60601-2-52
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	**V08050104**
RDM	**2837275**



Also available without the motorized wheel

Specifications on p. 26

DESCRIPTION

The standard STR MK8 configuration is a 4-section electric bed, 3 articulated and 1 fixed central section. The lying surface is made of polypropylene panels that are easy to remove and sanitize. All movements are fully electric: height adjustment, Trendelenburg and counter-Trendelenburg, backrest and leg section.

The isolation unit consists of an aluminium frame covered by a medical-grade PVC structure, sealed with airtight zips on both sides and complete with sleeved gloves and ports for ECG cables and other equipment.

The filtration system uses three-stage H14 grade HEPA filters (nuclear, biological and chemical) with an efficiency of 99.995%, capable of protecting up to BSL-4 hazard grade (EN 1822-1:2019 standard).

The motor is fitted with a backup battery that guarantees autonomous operation. The filters are tested and validated for a maximum of 720 continuous hours.

The STR MK8 bed is fully configurable in size and accessories, so that it can best match the requirements of the hospital and the needs of the patient.



Also available without the isolation cabin

INTENDED USE

Hospital Departments, Dialysis Centers, Residential Care Homes, Emergency Department, Emergency Room



OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.

BIMBO

Code STR MK9

Electric pediatric bed with pressure-controlled isolation system



THE PRODUCT

The MK9 pediatric bed with biocontainment system offers a range of features that allow it to adapt to any clinical situation and to provide a clean, healthy environment in which healthcare staff can care for the pediatric patient, including in intensive care, anaesthesia and resuscitation wards.

FEATURES

- HEPA motor and filter
- Integrated gloves with long sleeves (replaceable)
- Safety belts
- Fully openable on both sides
- Easy to sanitize and store
- Electrically powered movements through LINAK motors
- CPR position in seconds (electric control)
- No consumables required

BIMBO

Code STR MK9

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 1822-1:2019
- EN 60335-1:2012
- IEC 60335-2-65
- EN 61000-6-2:2005
- EN 61000-6-3:2007
- EN ISO 14644-1:2015
- EN 60601-1
- EN 60601-1-2
- EN 60601-2-52
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	V08050104
RDM	2265958



Also available with the motorized wheel

Specifications on p. 26

DESCRIPTION

The standard MK9 configuration has a three-section lying surface (two mobile and one fixed) in thermoformed ABS and a height-adjustable platform. All movements are managed electrically through the control panel integrated into the ABS side rail at the foot end.

The safety side rails are self-locking and pneumatically operated, which prevents them from dropping suddenly.

The isolation unit itself consists of an aluminium frame covered by a medical-grade PVC structure with airtight zips on both sides, complete with sleeved gloves and ports for ECG cables and other equipment.

The filtration system uses three-stage H14 grade HEPA filters (nuclear, biological and chemical), ensuring an efficiency of 99.995% and protection up to BSL-4 hazard grade (EN 1822-1:2019 standard).

The motor is fitted with a backup battery that guarantees autonomous operation. The filters are tested and validated for a maximum of 720 continuous hours.



With motorized fifth wheel





Also available without the isolation cabin

INTENDED USE

Hospital, Pediatric Ward, Emergency Department, Emergency Room



OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.

HELIOS+

Code STR MK20

Specialized hospital bed for the care and in-hospital transport of severe burn patients, with motorized fifth wheel



THE PRODUCT

The STR MK20 isolation bed is designed for the safe transport and care of severely burned patients and of patients with high-risk airborne contagious diseases, in complete safety within the healthcare facility.

FEATURES

- Motorized fifth wheel
- HEPA motor and filter
- Integrated gloves with long sleeves (replaceable)
- Dynamic low-air-loss mattress
- Electrically powered movements
- Fully openable on both sides
- Easy to sanitize and store
- No consumables required

HELIOS+

Code STR MK20

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 1822-1:2019
- EN 60335-1:2012
- IEC 60335-2-65
- EN 61000-6-2:2005
- EN 61000-6-3:2007
- EN ISO 14644-1:2015
- EN 60601-1:2006/A1:2013
- EN 60601-1-2
- EN 60601-2-52
- EN 60601-1-11:2010
- IEC 60601-1-8:2012
- ANSI/AAMI ES 60601-1 (2005)+AMD (2012)
- CAN/CSA C22.2 n. 60601-1 (2008)+(2014)
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	**V08060104**
RDM	**2837285**



Also available without the motorized wheel

Specifications on p. 26

DESCRIPTION

The HELIOS isolation hospital bed is designed for the safe care and transport of patients with severe burns within the healthcare facility, protecting patients and medical staff alike.

The standard configuration includes a 4-section electric bed with 3 articulated sections and a fixed central panel. The lying surface consists of polypropylene panels that are easy to remove and sanitize. All movements – height adjustment, Trendelenburg/counter-Trendelenburg, backrest and leg section – are fully electric.

The isolation unit has an aluminium frame covered in medical-grade PVC, sealed with airtight zips on both sides and fitted with glove ports and access for ECG cables and tubing of any kind. The three-stage NBC filtration system uses H14 grade HEPA filters with an efficiency of 99.995%, providing protection up to BSL-3 (EN 1822-1:2019). A backup battery guarantees autonomous operation and the filters are certified for a minimum of 720 hours.

A positive pressure gradient is maintained inside the unit to keep pathogens from entering, while the continuous airflow promotes the evaporation of exudate as it forms.

The bed is fitted with a mattress operating in continuous low-pressure mode. The air cells remain static, allowing the body to sink in gently and keeping contact pressures extremely low — ideal for patients with specific clinical needs.

The cells also provide micro air loss to manage the skin microclimate, helping to reduce moisture at contact points and to minimize the risk of maceration.

INTENDED USE

Burn Centers, Emergency Department, Emergency Room, Hospital Departments

OPTIONAL



Real-time tracking system for monitoring the location of the device, down to the floor it is on.

PITHOS

Code STR MK16

Mobile anteroom for biocontainment patient rooms



FEATURES

- The filtration system works with H14 grade HEPA filters
- Made of heavy-duty PVC with airtight zips for added safety
- Mounts directly onto the door frame: quick and easy to install
- Turns any patient room into an isolated negative-pressure environment
- Integrated ultrasonic disinfectant nebulizer
- Made to measure, or in standard sizes fitting most hospital doors

PITHOS

Code STR MK16

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 1822-1:2019
- EN 60335-1:2012
- IEC 60335-2-65
- EN 61000-6-2:2005
- EN 61000-6-3:2007
- EN ISO 14644-1:2015
- EN ISO 14971
- EN ISO 15223-1
- EN ISO 20417

DEVICE CODES

CND	**V08050104**
RDM	**2305355**

DESCRIPTION

Our Pithos mobile biocontainment anteroom is a permanent device that prevents or minimizes the escape of contaminated air from rooms housing patients with airborne infections (such as tuberculosis, measles, COVID-19 and others) as doors are opened and closed.

It is an ideal isolation system in emergency situations: quick and easy to install, and able to turn any patient room into an isolated negative-pressure environment.

The anteroom structure, built entirely from durable aluminium and high-strength transparent polyvinyl chloride, mounts directly onto the door frame and therefore suits any healthcare environment. Inside the anteroom an ultrasonic disinfectant nebulizer provides an additional protective barrier should staff enter inadvertently without adequate personal protective equipment.

Air filtration is carried out by three-stage H14 grade HEPA filters (nuclear, biological and chemical), with a filtration efficiency of 99.995%, suitable for protection up to BSL-4 risk grade (EN 1822-1:2019 standard).

Pithos is a customizable solution, normally built to the dimensions specified by the buyer, but it can also be supplied in standard sizes and configurations that fit most doors currently found in hospitals.







INTENDED USE

Hospital Departments, Burn Centers, Dialysis Centers, Residential Care Homes, Airports, Ports, Large Ships, Emergency Department, Emergency Room

PANDORA

Code STR MK17

Pressure-controlled modular biocontainment room



THE PRODUCT

The modular biocontainment room can be easily assembled and installed anywhere in a healthcare facility, indoors or outdoors. The whole system goes up quickly, creating an environment completely isolated from its surroundings in a matter of minutes. Thanks to its modular design, several modules can be joined together to fit larger spaces and house more patients.

FEATURES

- Customizable modular system
- Solid, lightweight structure
- Full side opening for the rapid admission of several patients
- Integrated ports for cables and equipment (ECG cables and more)
- Quick and simple filter replacement system
- Negative and positive pressure operation
- Easy to maintain and store

PANDORA

Code STR MK17

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 1822-1:2019
- EN 60335-1:2012
- IEC 60335-2-65
- EN 61000-6-2:2005
- EN 61000-6-3:2007
- EN ISO 14644-1:2015
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417

DEVICE CODES

CND	**V08050104**
RDM	**2280535**

DESCRIPTION

Pandora is a modular biocontainment room, readily adaptable to the varying needs of medical facilities in both size and purpose. It has been conceived and designed to be simple to assemble and to match the dimensions required by hospitals. Depending on how it is used, the chamber can also be resized after it has been built, adapting it quickly and easily to new spaces, indoors or outdoors.

Pandora consists of a solid aluminium frame, a medical-grade PVC cover with accesses sealed by airtight zips, suction motors ensuring correct air recirculation inside the chamber, and a multi-stage air filtration and purification system. No consumables are required.

Air filtration is carried out by three-stage H14 grade HEPA filters (nuclear, biological and chemical), with a filtration efficiency of 99.995%, suitable for protection up to BSL-4 risk grade (EN 1822-1:2019 standard). The room can also be operated in two different modes: at negative pressure, to stop contagious diseases spreading beyond the room; or at positive pressure, to shield the patients inside from airborne pathogens normally present in the air (for severe burns, immunosuppressed and post-transplant patients).

The basic Pandora configuration comprises 6 modules, but several modules can be combined to meet different requirements. Each module measures 90 × 90 × 225 h cm.

90 × 90 × 225 cm

size of each module · basic configuration 6 modules

INTENDED USE

Any in-hospital, peri-hospital or out-of-hospital setting, Field Hospitals, Burn Centers, Dialysis Centers, Residential Care Homes, Airports, Ports, Large Ships, Emergency Department, Emergency Room

PYRRHA

Code STR MK15

Emergency biocontainment tent



THE PRODUCT

Pyrrha is Pandora's daughter. Thanks to its extremely light and simple structure, it can be installed quickly and easily in emergency situations, outside patient rooms or in the corridors of care homes, creating a biologically contained and isolated environment in which temporarily admitted patients can be examined with no risk of contagion.

PYRRHA

Code STR MK15

DESCRIPTION

Pyrrha was designed specifically for residential care homes for the elderly: a biological bubble that can be positioned anywhere and built to any size.

Every accessory available for Pithos and Pandora is also available for Pyrrha, according to the customer's needs and requests.

Accessories

Compatible with all PITHOS (p. 18) and PANDORA (p. 20) accessories.



INTENDED USE

Hospital Departments, Burn Centers, Dialysis Centers, Residential Care Homes, Airports, Ports, Large Ships, Emergency Department, Emergency Room

SECTION

02

Motorized systems

Stretchers, beds and trolleys with a retractable motorized fifth wheel: one operator moves the patient effortlessly, even in confined spaces.



Our products are highly customizable to your requirements and require no single-use materials.

MSD prevention: the InCare motorized fifth wheel

Manual pushing is the leading cause of occupational disease in healthcare, and it translates into an additional cost for the hospital.



Operator posture when pushing manually and with the motorized fifth wheel engaged.

The problem

Musculoskeletal disorders (MSDs) are the leading cause of occupational disease in healthcare:

- Manual patient handling: the main risk factor
- Lifting and moving heavy beds and stretchers (above all with added biosafety cabins)
- It affects the staff a ward can least afford to lose
- Consequences: lower back pain, spinal injury, prolonged absence, costs for the health service

Our solution

Every InCare product can be fitted with a motorized fifth wheel:

- Effortless handling of beds and stretchers, even with critical patients
- Physical effort removed from the transfer
- Precise manoeuvrability in tight spaces (wards, lifts, ambulances)
- Up to 90% reduction in biomechanical load on the back

Impact

- Prevention of injuries and occupational disease
- Fewer days lost to staff sickness absence
- One operator handles what often takes two
- Better ergonomics and workplace wellbeing
- Compliance with occupational safety legislation (Italian Legislative Decree 81/2008) and Directive 90/269/EEC
- ROI: the cost of the technology is offset by the reduction in injury-related costs

Power Assisted Drive System

How our motorized fifth wheel works

The Power Assisted Drive System is the motorized drive system InCare fits to its beds, stretchers and trolleys. Compared with manual pushing it cuts the biomechanical load on the operator's back by 90% and halves the force needed to set a stationary device in motion, even in confined spaces.

The fifth wheel sits under the frame and retracts when it is not needed. Engaged, it takes on the weight of the device: the operator steers rather than pushes. The Ø 170 mm solid rubber wheel keeps traction on smooth floors, over thresholds and on ramps.

The controls are built into the push handles and operate with one hand. The right-hand grip drives forward and reverse and shows the battery status; the selector sets the maximum speed. Releasing the grip cuts the power and the electromagnetic brake brings the device to a controlled stop, with no need for the operator to hold it back.



Wheel Ø 170 mm · width 46 mm

Technical data

Wheel	**Ø 170 mm · width 46 mm**	Motor	**24 V · 200 W**
Speed	**2 and 4 km/h selectable**	Torque	**12 Nm**
Load capacity	**up to 350 kg**	Battery	**336 Wh**
Drive	**retractable fifth wheel**	Protection	**IPX4**



RIGHT-HAND GRIP

Forward and reverse, power on, battery status and electromagnetic brake.



SPEED SELECTOR

Sets the maximum speed: tortoise 2 km/h for manoeuvring, hare 4 km/h for transfers.

Available as an option on every InCare bed, stretcher and trolley.

In this section



MOOVIE 28

In-hospital transport stretcher with motorized fifth wheel



LOTUS 30

Labour, delivery and obstetric surgery bed with motorized fifth wheel



ERCOLE+ 32

Bariatric hospital bed with PAD system (4 motors) and motorized fifth wheel



CHARON+ 34

Mortuary transfer trolley with motorized fifth wheel

MOOVIE

Code STR MK12

In-hospital transport stretcher with motorized fifth wheel





Also available in a pediatric version

THE PRODUCT

MOOVIE is designed to improve patient comfort and reduce the physical effort required of medical staff, thanks to its motorized drive system. It allows one person to push and manoeuvre the stretcher effortlessly, even in confined spaces, through a retractable motorized fifth wheel.

MOOVIE

Code STR MK12

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 60601-1
- EN 60601-1-2
- EN 60601-2-52
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	**V0899**
RDM	**2319248**

DESCRIPTION

In its standard configuration MOOVIE is a 2/3/4-section hydraulic stretcher with adjustable height and a radiolucent patient surface. The painted steel structure is mounted on 4 antistatic swivel castors and raised by 2 hydraulic columns.

Height, lying surface, Trendelenburg and counter-Trendelenburg are adjusted by side pedals, while the backrest uses a power-assisted gas spring lever. Each castor has a two-colour lever for simultaneous locking and unlocking.

The push handles at the head and foot ends give a secure grip; those at the head end carry the control for the motorized fifth wheel. The folding side rails provide maximum safety and, when lowered, stay below mattress level.

There are 4 sockets for IV poles, 4 bumper rollers, side bumper bars, accessory hooks and restraint straps. The surface is pre-arranged for a sliding cassette holder at the head end.

The frame is protected by an easy-to-clean plastic casing with a storage compartment and space for an oxygen cylinder of up to 7 litres. Accessories include bag hooks, IV pole, cylinder basket, chart holder and roll holder.

All metal parts are epoxy powder coated with an antimicrobial additive and given protective treatments for strength and durability. MOOVIE is extensively customizable in size and accessories to meet specific requirements.

INTENDED USE

Hospital Departments



OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.



OPTIONAL

Structure pre-arranged for the installation of an isolation cabin complete with motors and dual-pressure filters (positive/negative), compliant with the safety standards for protecting infectious or immunosuppressed patients and healthcare staff.

LOTUS

Code STR MK6

Labour, delivery and obstetric surgery bed with motorized fifth wheel



FEATURES

- Electrically powered movements
- External control panel
- All-in-one solution for the different stages of care
- Fitted with motorized fifth wheel
- Rapid transfer from the labour room to the operating theatre
- Two selectable speeds
- Complete with accessories
- Customizable

LOTUS

Code STR MK6

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 60601-1
- EN 60601-1-2
- EN 60601-2-52
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	Z12080499
RDM	2540387

DESCRIPTION

The LOTUS delivery and surgery bed is a universal product designed for the various stages of care during pregnancy, labour and delivery. Its configuration or position can be changed in seconds to provide the right comfort; and thanks to the motorized drive system, the patient no longer has to be moved from one bed to another.

Three Linak motors adjust the backrest, the height and the Trendelenburg/counter-Trendelenburg positions from the control panel. The side rails fold away below surface level and every part is antimicrobially treated. The mattress uses high-density memory foam and its cover is antimicrobial, waterproof, fire-retardant and airtight.

It has an emergency backrest release for lowering the section quickly, and a battery for use in the event of a power failure.





INTENDED USE

Maternity Ward

OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.

OPTIONAL

Structure pre-arranged for the installation of an isolation cabin complete with motors and dual-pressure filters (positive/negative), compliant with the safety standards for protecting infectious or immunosuppressed patients and healthcare staff.

ERCOLE+

Code STR MK10

Bariatric hospital bed with PAD system (4 motors) and motorized fifth wheel



THE PRODUCT

The retractable motorized fifth wheel gives operators a mobility option unlike any other, providing a way to transport patients of any size regardless of uneven surfaces or slopes, while improving patient comfort at the same time.

ERCOLE+

Code STR MK10

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 60601-1
- EN 60601-1-2
- EN 60601-2-52
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	**V08060199**
RDM	**2837278**

DESCRIPTION

Our STR MK10 bariatric care hospital bed combines a higher load capacity with powerful adjustment systems, supported by 4 LINAK motors, giving heavier or larger patients the comfort and dignity they deserve.

GENERAL FEATURES

- Electric adjustment of height, backrest and leg rest
- Electric Trendelenburg and counter-Trendelenburg movements
- Electric Fowler and Vascular positions
- Handset control panel and nurse control panel
- Auto-Contour function
- 4-piece wire mesh lying platform
- 4-piece side rails in easy-to-clean ABS
- Detachable wooden head and foot boards with metal frame
- Castors with cross-locking
- Electrostatic powder-coated metal frame
- Manual CPR handles on both sides of the backrest
- CPR button
- Hook for IV pole and urine bag
- Rechargeable backup battery

INTENDED USE

Hospital Departments, Residential Care Homes, Emergency Department, Emergency Room, Home Care

OPTIONAL



Real-time tracking system for monitoring the location of the device, down to the floor it is on.

OPTIONAL



Structure pre-arranged for the installation of an isolation cabin complete with motors and dual-pressure filters (positive/negative), compliant with the safety standards for protecting infectious or immunosuppressed patients and healthcare staff.

CHARON+

Code STR MK13

Mortuary transfer trolley with motorized fifth wheel



ACCESSORIES

- Rolled stainless steel lid
- Rolled aluminium lid
- ABS lid

CHARON+

Code STR MK13

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 60601-1
- EN 60601-1-2
- EN ISO 14971
- EN ISO 15223-1
- EN ISO 20417
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	**V0899**
RDM	**2837281**

DESCRIPTION

The motorized mortuary transfer trolley is an essential device for moving the deceased with dignity within hospital facilities. Built entirely from AISI 304 stainless steel, its load-bearing structure is made of electrically welded tubing, free of screws or rivets, for maximum stability and strength.

The body tray, also in stainless steel, is mounted on the base and shaped with an incline to contain and drain body fluids through a dedicated drainage tap. Handles at the head and foot ends allow it to be removed and used independently of the trolley, for versatility and ease of use.

The trolley runs on four 200 mm castors for smooth movement on indoor floors and, thanks to its solid structure, can also handle slightly uneven surfaces. Two castors have a foot brake to ensure safety during loading and unloading.

A retractable motorized fifth wheel with electromagnetic brake, 170 mm in diameter and powered by a rechargeable battery, allows easy movement even on gradients of up to 15%. An audible warning device is also fitted for greater operational safety.



Also available with variable height

INTENDED USE

Mortuaries



OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.

SECTION

03

Other devices

Stretchers for diagnostic imaging and a biocontainment system dedicated to the veterinary sector.



Our products are highly customizable to your requirements and require no single-use materials.

In this section



IRIS

Fluoroscopy stretcher

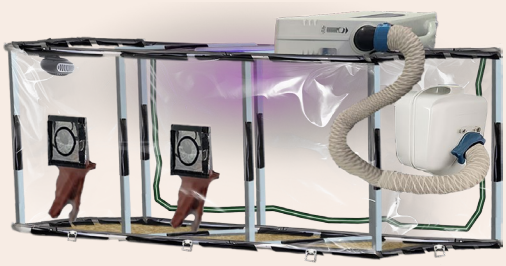
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MAGNES

Non-magnetic MRI stretcher with variable height

40



DIANA

BSL-4 grade pressure-controlled veterinary biocontainment system

42

IRIS

Code STR MK19

Fluoroscopy stretcher



FEATURES

- **C-arm compatibility: the C-shaped lower frame eases access and keeps radiological images free of obstructions.**
- **Safety and manoeuvrability: four 150 mm castors with central locking, ergonomic push handle and protective bumpers at the corners.**
- **Strength and certified quality: load capacity up to 250 kg.**
- **Multiple adjustments: variable height from 520 to 750 mm and Trendelenburg/counter-Trendelenburg functions (+12°/–12°), pedal controlled.**
- **Hygiene and comfort: easily sanitized PU-covered mattress and ABS frame cover for quick cleaning and durability.**

IRIS

Code STR MK19

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN 60601-1
- EN 60601-1-2
- EN ISO 14971
- EN ISO 10993-1
- EN ISO 15223-1
- EN ISO 20417
- EN IEC 62366-1
- ISO 11228-1
- ISO 11228-2
- ISO 11228-3
- EN ISO 26800
- EN ISO 6385

DEVICE CODES

CND	**V0899**
RDM	**2837283**

DESCRIPTION

The STR MK19 Iris fluoroscopy stretcher is designed to deliver versatility, safety and ease of use during diagnostic and interventional fluoroscopy procedures. Its innovative structure makes it an ideal solution for hospital environments that need C-arm compatibility for radiological examinations.

Pedal-adjustable height positions the patient quickly at the required level, with a range from 520 mm to 750 mm to suit different operational needs. The Trendelenburg and counter-Trendelenburg functions (+12°/−12°), also pedal controlled, allow rapid tilting to optimize radiological visualization and improve patient comfort.

The stretcher structure features a C-shaped lower frame that eases access and alignment of C-arms, ensuring clear, unobstructed images. An optional cassette holder is also available for the rapid insertion of X-ray cassettes.

For greater safety and manoeuvrability, the STR MK19 Iris is equipped with four 150 mm diameter castors with central locking and a polyurethane push handle. Protective bumpers at the corners help prevent damage while moving. The ABS cover on both sides of the frame ensures durability and ease of cleaning.

The PU-covered mattress is designed to be easily sanitized, maintaining high hygiene standards. With a safe working load of up to 250 kg and the option to customize dimensions and angles, the stretcher adapts perfectly to any clinical setting.

CE, ISO and OHSAS certified, the STR MK19 Iris offers a perfect combination of functionality, ergonomics and safety for advanced fluoroscopy procedures.

INTENDED USE

Diagnostic Departments

OPTIONAL



Real-time tracking system for monitoring the location of the device, down to the floor it is on.

MAGNES

Code STR W709

Non-magnetic MRI stretcher with variable height



MRI – Coming Soon

FEATURES

- Ready-to-use system
- Solid yet lightweight structure
- Backrest reclining from 0 to 70° (±2°)
- Safe Working Load (SWL) 200 kg (±10 kg)
- Easy to sanitize and store
- 100% non-magnetic aluminium
- Fold-down side rails
- Non-magnetic IV pole
- 5 cm medical mattress
- 125 mm castors – 2 with brake

MAGNES

Code STR W709

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- EN ISO 14971:2019
- EN ISO 15223-1:2016
- EN 1041:2008 +A1:2013
- ISO 10993-1:2018
- EN ISO 10993-5:2009
- EN ISO 10993-10:2013
- EN 12183:2014

DESCRIPTION

The Magnes hydraulic stretcher is designed for use in environments of high magnetic sensitivity and is fully compatible with magnetic resonance imaging (MRI) equipment. Made of non-magnetic aluminium alloy, it offers a solid, lightweight structure that ensures safety, manoeuvrability and reliability when transporting patients in a hospital setting.

The height is adjusted by convenient side pedals, while the backrest tilts up to 70° on a gas spring system, allowing optimal patient positioning. A Trendelenburg function is also provided, useful in specific clinical conditions.

Fitted with fold-down side rails in non-magnetic aluminium, the stretcher also has a 5 cm thick medical mattress for comfort in use. The four non-magnetic castors, two of them braked, and the protective corner bumpers ensure stable, safe handling at every stage.

With a load capacity of up to 200 kg, the Magnes stretcher is a versatile, professional choice for healthcare facilities working in MRI or high-technology diagnostic settings.

INTENDED USE

Diagnostic Departments

OPTIONAL



Real-time tracking system for monitoring the location of the device, down to the floor it is on.

DIANA

Code STR MK3-V

BSL-4 grade pressure-controlled veterinary biocontainment system



FEATURES

- Ready-to-use system
- Solid yet lightweight structure
- Safe Working Load (SWL) 150 kg (±10 kg)
- Easy to sanitize and store
- Customizable dimensions
- Controlled positive or negative pressure
- Can be mounted on trolleys
- UV lamp
- Heater, 30–80 °C

DIANA

Code STR MK3-V

STANDARDS APPLIED

- MDR 2017/745
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- ISO 10648-2:1994
- EN ISO 1822-1:2019
- UNI EN ISO 14644-1:2016
- EN 60335-1:2012
- EN 60335-2-30:2009
- EN 62471:2008
- EN 61000-6-2:2005
- EN 61000-6-3:2007

DESCRIPTION

The MK3-V Diana is a pressure-controlled veterinary biocontainment system, designed for the safe transport and handling of animals in settings that demand high isolation standards. The stainless steel load-bearing structure and the high-strength PVC outer shell combine mechanical strength, light weight and an easily sanitized surface, ideal for clinical and research environments.

The device integrates an advanced filtration circuit and a dedicated thermal insulation system, keeping the internal microclimate stable and controlled. Integrated lighting and temperature control are also provided, designed to optimize the animal's comfort and ease of operation during transport.

The design has been developed in full compliance with European medical device regulations and with the principal international certifications for quality management, operational safety and electromagnetic compatibility. The system can be supplied with a dedicated transport trolley and optionally configured with a motorized fifth wheel for power-assisted mobility. Covered by a two-year warranty and built to the latest standards, the MK3-V Diana is a reliable, compliant solution for veterinary facilities, laboratories and emergency units working under advanced biocontainment conditions.



On transport trolley



On scissor-lift trolley

INTENDED USE

Animal transport



OPTIONAL

Real-time tracking system for monitoring the location of the device, down to the floor it is on.

Our sustainability commitment

Every day we work towards a more sustainable future, with concrete actions and recognized certifications.

01

Simple, recyclable packaging

Minimal packaging, free of superfluous elements, made from recyclable materials and compliant with environmental labelling regulations.

02

Certified recycled materials

Use of materials with ReMade in Italy certified recycled content and full supply chain traceability.

03

Certified management system

ISO 14001 certified Environmental Management System and ISO 13485 Quality System for medical devices.

04

Gender equality

We believe gender equality is essential to building workplaces that are fair, respectful and full of opportunity for everyone.

05

Reduced CO_2 emissions

Measurement and reduction of the carbon footprint of our products according to international standards for medical devices.

06

Environmental protection

Eco-design, circular economy and reduced environmental impact across the whole product life cycle.

Sustainability is an integral part of our strategy:
for people, for the environment, for the future.

A complete chain, from design to service

We are among the few companies in Europe covering the entire biocontainment chain.

01 **Design**

Research, design and prototyping remain in Italy.

02 **Manufacturing**

Certified industrial manufacturing at our plant in Bulgaria.

03 **Certified maintenance**

Certified maintenance of installed devices.

04 **Technical and regulatory support**

We support healthcare facilities on technical and regulatory matters.

Customization as standard

Customization is our standard configuration, not an option: dimensions, accessories and fit-out follow the protocols and the spaces of the facility that will use the device.

European patents

Several of our devices are protected by European industrial patents. No single-use materials to buy again after installation.

MANAGEMENT SYSTEMS AND COMPLIANCE

MDR 2017/745 · ISO 9001:2015 · ISO 13485:2016 · ISO 14001:2015

An ISO 9001:2015 Certified

Notes and configuration

Space to note down the models, dimensions and accessories you have chosen.

Your InCare contact

For a demonstration, a quote or a site visit.

DISTRIBUTOR STAMP / CONTACT DETAILS

Stretchers Industries OOD

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info@incare.bg · www.incare.bg

We build for a world better protected from threats that, until recently, could only be endured.

Our products are highly customizable to your requirements and require no single-use materials.

Stretchers Industries ltd.

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