User Manual

Mezos SIT

Examination and treatment chair

Read carefully before use

Technical model: Mezos SIT
Gliwice, Poland 2022

CE

1. We are here for you!

Thank you for ordering Mezos SIT and welcome to our family!

At EGZOTech, we truly believe that great user experience isn't just about great products, but reliable support, constant development, and understanding the needs of our users and patients. We truly believe that together, we can change the future of healthcare and physiotherapy!

The next steps will empower your examination and treatment with Mezos SIT!

Our YouTube page for videos and tutorials!

https://youtube.com/EGZOTech

If you're having unexpected operation or events, issues, medical incidents or any trouble with your Mezos SIT, please contact us under the following:

Our Service Desk page:

https://service.egzotech.com

Other direct contact information:

support@egzotech.com
https://egzotech.com
+48 32 750 49 45

EGZOTech Sp. z o.o.
Romualda Traugutta 6H
44-100 Gliwice, Poland

We provide additional resources for education, support, maintenance and webinars. Feel free to check EGZOTech Courses available at https://courses.egzotech.com.

Any medical incident related with Mezos SIT has to be reported to EGZOTech and the competent authority of the country. Please inform us by sending message to the address: safety@egzotech.com.

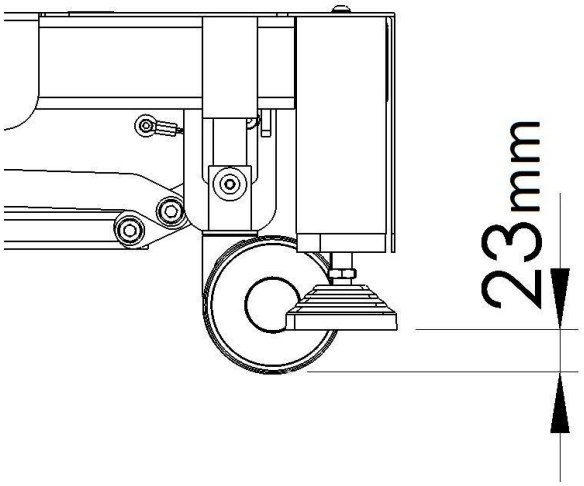
2. Why is this user manual important?

2.1 Safety

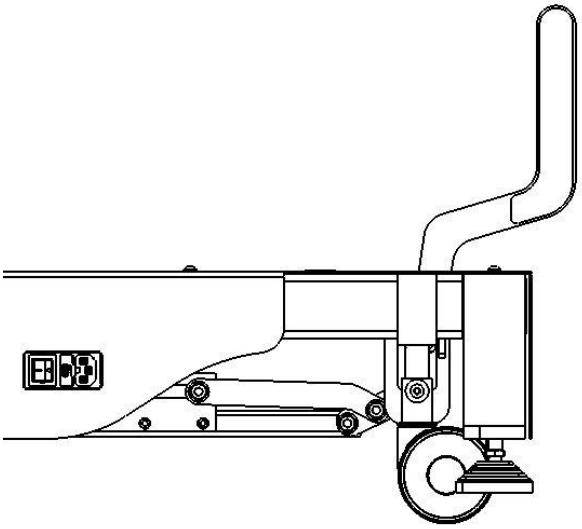
Mezos SIT is an AC-powered examination and treatment chair. As such, **it can be dangerous if used incorrectly**.
Do not start using Mezos SIT before getting familiar with this User Manual, especially the 7. Warnings and basic safety chapter.

2.2 Positioning the chair before starting

The chair should remain still during the exercises. Therefore, for the correct and stable positioning of the chair, the levelling feet should be set as shown in the figure below.

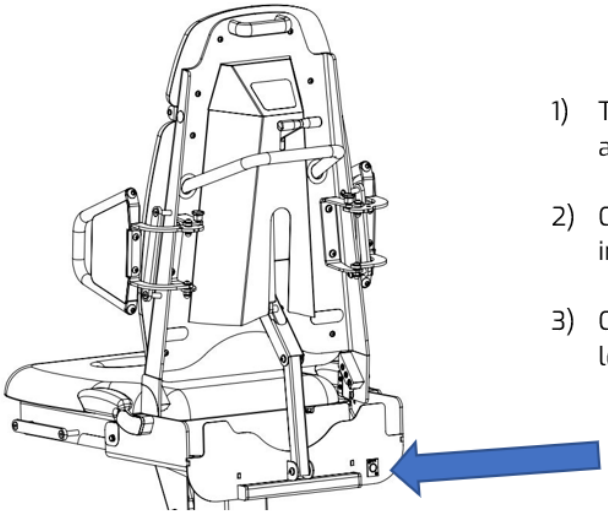


Incorrect adjustment may cause the chair to move during the exercises, which is not allowed.
Adjust the height of the levelling feet with the lever raised up, as shown in the picture:



2.3 Let's connect everything!

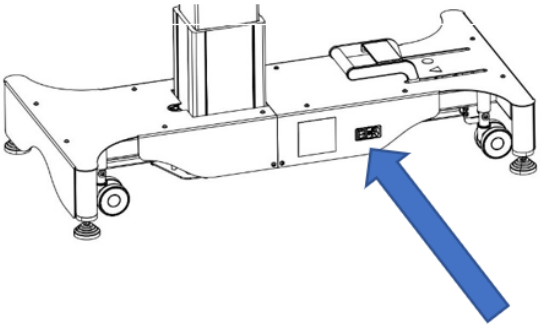
Follow the order listed below for step by step electrical connection of Mezos SIT:



1) Take Mezos SIT out of its package and remove all the transport safety bands.

2) Clean Mezos SIT before first use. Follow the instructions included in chapter Cleaning.

3) Connect remote control cable to its socket located at the back of the seat.



4) Install all needed accessories.

5) Plug the power cord to its socket located on the left side of the base and to a grounded electrical socket.

6) Turn Mezos SIT on using its power switch.

3. Table of contents

4. Where to get this manual?

EGZOTech constantly meets the needs of users. We have created a website http://courses.egzotech.com where you can find the newest revision of this manual and other courses related to the manual and functions of Mezos SIT.

Before use, always be sure to check whether this manual corresponds to the version of Mezos SIT you are using. EGZOTech is not responsible for any misuse that may arise due to using an older version of this manual.

5. What is Mezos SIT?

5.1 Device description

Mezos SIT is an AC-powered examination and treatment chair designed to support and position the patient in a seated or reclined posture for easy access and patient comfort during a diagnostic examination, medical or physiotherapy treatment.
Mezos SIT has moveable components and includes special features such as a raising/lowering mechanism, angular deviation and removable arms. Mezos SIT can also be folded out to a bed/flat position.
Mezos SIT is controlled by a remote control connected with the seat.

Mezos SIT should only be used under medical supervision. The device is not suitable for home use.

6. User responsibilities

6.1 What's Mezos SIT for (intended use)?

Mezos SIT is intended to be used as a chair or couch to provide positioning and support of patients during general examination or treatment procedures conducted by medical professionals.

6.2 When not to use Mezos SIT (non-intended use)?

Mezos SIT **cannot be used**:

- as a work chair,
- as an operating chair or table,
- as a substitute for a bed,
- for transporting patients,
- in combination with therapeutic radiology, X-Ray diagnostics, therapeutic magnetotherapy, intravascular or intracardiac intervention,
- in the vicinity of high-frequency surgical devices or defibrillators,
- in environments where flammable or explosive gases or vapours (e.g. anaesthetics) may occur,
- with a patient, who exceeded a weight of 135 kg.

6.3 Facility responsibilities

Remember, Mezos SIT is a device that is intended to help patients, but if used incorrectly, may lead to injuries. There are two fundamental rules that need to be followed at all times.
Mezos SIT needs to be operated by a professional user, whether that's a physiotherapist or doctor for patient's therapy. Engineers can operate the device during annual check-ups or service works – engineers are not allowed to work with patients. All persons operating Mezos SIT have to get familiar with this manual beforehand.
Before working with a patient, the supervisor is required to familiarize with the intended and non-intended use listed above. The decision whether to use Mezos SIT in a specific medical condition remains with the supervisor. All actions done by the supervisors and their consequences remains the facility.

6.4 Risk and Benefits

As a medical device, Mezos SIT was developed for supporting and positioning the patient in a seated or reclined posture. Mezos SIT is indicated for general examination or treatment procedures conducted by medical professionals.
Mezos SIT is designed and has implemented safety features to provide comfortable, functional and safe patient positioning. Relying on the available clinical data presented in the Literature Search Report and Clinical Evaluation Report the device's intended use, has been properly documented and confirmed by literature examples and similar devices.
Available information for similar devices and conducted by manufacturer risk analysis indicated that likelihood and severity of risk for Mezos SIT is low. Mezos SIT fulfills safety requirements included in standards.
Based on the clinical evaluation and the risk analysis it was found that **the benefits of the device to be high with the low level of risk**. Manufacturer provides propionate warnings and labeling which limits the possible risk.

6.5 Benefits

Based on the literature and similar devices revision we can point out the benefits of using Mezos SIT:

- Right positioning and securing the patients during different procedures, treatments or trainings, in sitting and horizontal position.
- Improving ergonomics and quality of work of medical professionals.
- Can be used in the clinical areas.

7. Warnings and basic safety

7.1 General safety consideration and precautions

Mezos SIT has been created as an examination and treatment chair. Do not use it for any other purpose not included in this manual.

Before positioning patient on Mezos SIT, you should provide at least the information about the intended treatment, contraindications and safety measures.

Use Mezos SIT only with authorized accessories! That includes all the package contents listed in chapter 9. What will I find in the package?. **Use only the AC cable supplied.**

Keep caution while using Mezos SIT in an event of changes in its performance. If you experience any changes, please contact EGZOTech through one of the channels provided at the end of this manual. Please refrain from using Mezos SIT if you experience any performance changes.

Mezos SIT has met the requirements of ISO 60601-1-2 for electromagnetic compatibility, including immunity, however **while running Mezos SIT near high frequency / power medical devices, follow the safety manuals of those devices**. Incorrect use of other devices, and non-compliant devices may influence the parameters of Mezos SIT.

In an event that **Mezos SIT doesn't behave in an intended manner, turn the power switch off** and notify your product specialist or our customer support immediately.

Any medical incident related to Mezos SIT needs to be reported to EGZOTech and the competent authority of the Country in which the user and/or patient is based. Please inform us by sending a message to address: safety@egzotech.com.

Do not use Mezos SIT outside of its operating environment, including temperature, humidity or atmospheric pressure, specified in the chapter 10.2 Technical Specification in this manual.

7.2 Electrical safety and electromagnetic compatibility

Mezos SIT is running on specific electrical parameters. **Ensure that you have a grounded AC socket compatible with the requirements specified** in chapter 10.2 Technical Specification.

Mezos SIT is an electrical device with no liquid ingress or solid particle protection (IP20). Protect Mezos SIT from any contact with liquids and/or solid particles.

Avoid stretching, riding over, tying up or any activity that could damage the AC cable or remote control cable.

Do not transport or change Mezos SIT position while it is connected to power supply.

While Mezos SIT is connected to the power supply, do not replace any accessory which is placed in the rails under the seat.

While replacing external AC fuses, follow the electrical requirements in the technical specification.

Mezos SIT is electrically safe, even in the event of a single subsystem failure. Nevertheless, if you witness any problems regarding cables, chassis or any safety elements, take extra caution and contact your product specialist.

Mezos SIT has one applied part (an element that is intended to get in contact with a patient). Applied part B (seat, backrest, headrest and accessories) is used to support and position the patient. That part has extended electrical safety parameters and is labelled according to the symbols table in chapter 8.4 Symbols.

A detailed schematic of AC isolation is provided in chapter 13.1 Electrical isolation information.

Mezos SIT complies with the requirements of IEC 60601-1-2 (EMC Collateral Standard) including the E-field susceptibility requirements at a level of 3 volts per meter, at frequencies from 80 MHz to 2.7 GHz. However, even at this level of device immunity, certain transmitting devices (cellular phones, two-way radios, cordless phones, paging transmitters, RFID devices, etc.) emit radio frequencies that could interrupt Mezos SIT operation if operated in a range too close to the Mezos SIT. Practitioners should be aware of possible radio frequency interference if portable devices are operated in close proximity to the Mezos SIT.

Keep RFID readers 30 cm away from the device.

Operation in close proximity to a shortwave or microwave therapy equipment may produce instability in the electronic components.

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm to any part of Mezos SIT, including cables. Otherwise, degradation of the performance of this equipment could result.

Use of accessories, transducers and cables other than those specified or provided by EGZOTech of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Use of this equipment adjacent to or stacked with other equipment should be avoided, because it could result in improper operation. If such use is necessary, this equipment and other equipment should be observed to verify that they are operating normally.

7.3 Mechanical safety

Mezos SIT has following trapping zones, located:

- between the backrest and the seat,
- between the seat and the lifting column,
- under the chair's base,
- between the side rails hinges and the backrest,
- between the wheel system lever and the base cover, including lever cracks in the base cover,
- between the lifting column and the base cover.

Do not put any body parts or other objects in any of those trapping zones while Mezos SIT is moving or being adjusted. Putting objects in the trapping zones during normal operation may cause injuries.

Before use, always check Mezos SIT and accessories for mechanical damages. Do not use Mezos SIT or any accessories, when a damage was noticed.

Do not make any mechanical modifications to Mezos SIT and the accessories. That includes removing the installed screws.

In a rare event of an uncontrolled, unintended movement of Mezos SIT, turn the power switch off, and then help your patient get off the chair.

Mezos SIT uses its weight and a low center of gravity for stability. To avoid instability and toppling over, follow the maximal patient weight stated in technical specification. Patient should sit in the middle of the seating surface. Patient can get on or off the chair only while the seat is in the home position.

It is forbidden to sit or place all body's weight on any part of Mezos SIT except the seat. Especially, **do not sit on the leg-rests, arm-rest, backrest or headrest.**

Do not stand on any part of Mezos SIT. Especially, **do not stand or step on single leg-rests with unfolded foot-support.**

Do not transport any weights or persons on the chair.

During transportation, **wheels have to be ejected**. Use the back handle to ensure maximal stability. Avoid collisions with other objects.

If you need to lift Mezos SIT for transportation (in a situation where all wheels need to be above ground), hold it for the support frame of the chair's base. **The seat and back side rails or hand rests aren't meant for sustaining extensive weights of Mezos SIT.**

Before positioning the patient on the chair, **make sure that the wheel system is retracted** and the chair is standing on its levelling feet.

Do not leave Mezos SIT unattended, while wheels are ejected.

While using Mezos SIT, avoid wet, slippery or uneven surfaces. Try to avoid those during transportation whenever possible.

While adjusting Mezos SIT, **all patient's limbs have to be placed in a safe and visible for chair's operator position** (e.g. both legs on the leg-rests, hands on patient's knees, arm on the armrest).

While adjusting seat position using remote control, **stand back and keep safe distance from Mezos SIT.**

Do not tilt the seat if the backrest inclination angle is below 45° (Mezos SIT in couch mode). There is a risk of patient fall and collision of backrest or side rails with Mezos SIT base.

Before moving the seat down, deflect split leg-rests forward for at least 20° from the vertical and shorten their length maximally. Otherwise, the leg-rest may hit the floor or the base.

Do not change seat depth or backrest inclination while lifting column or seat actuator are working.

Do not change seat depth when the backrest or the seat is tilted, especially while the patient is sitting on it.

Do not change backrest inclination if the seat is tilted.

Backrest inclination can be changed only if the backrest is pushed back for at least 10 cm (blue area on the seat depth label).

While the patient is sitting on the chair, do not replace any accessory which is placed in the rails under the seat.

Please report all damages, malfunctions or strange behaviours to your product specialist.

7.4 Multiple use precautions and consumables

Mezos SIT has been tested to be reliable for multiple use and cleaning with the disinfection products described in the chapter 14. Cleaning. The use of different cleaning products can have varying results and can lead to contamination, surface deterioration, loss of biocompatibility and malfunction.

Caution should be used for the disposal of Mezos SIT. Mezos SIT shouldn't be thrown out, or improperly utilized due to electronic components. Consult your product specialist on how to act best to utilize Mezos SIT that won't negatively impact the environment.

Mezos SIT accessories and the device itself will experience normal wear and tear over time. Possible degradation of performance over time is possible.

Mezos SIT is a specialized electrical device and contains dangerous voltages inside, **therefore maintenance is limited only to authorized EGZOTech personnel**. If a malfunction happens, call your product specialist or our customer support immediately. EGZOTech provides the necessary technical information to all maintenance personnel.

Mezos SIT's lifting column and the seat actuator work in the intermittent mode (2 minutes on, 18 minutes off). The remaining time of constant work is decreasing while working and is increasing while resting. After 2 minutes of constant work of lifting column and/or seat actuator Mezos SIT will stop and the remote control LED Ring will display notification about exceeding the maximal time of constant work. There is no danger in this case, but before resuming adjusting seat position

it is necessary to wait at least 10 minutes until the LED Ring shows notification that the system is ready to work.

7.5 Biological safety

Never use Mezos SIT with compromised or wounded skin.

Mezos SIT is intended and created with biocompatibility of **skin contact**. **Avoid contact with mucosal membranes and breached or compromised surface**, or in any case inside your body.

Mezos SIT has been analysed for biocompatibility that includes cytotoxicity, sensitization and irritation or intracutaneous reactivity, however **if you or your patient experience an allergic reaction, irritation, or signs of toxicity, whether from Mezos SIT or any other source, cease all examination or treatment procedures and help your patient get off the chair** until the underlying cause has been dealt with.

Clean and disinfect Mezos SIT after every patient to avoid transmission of infectious skin diseases.

The user or the medical service provider must contact its local authorities to determine the proper method of disposal of potentially biohazardous materials.

7.6 Environmental safety

Do not perform service, maintenance and modifications of Mezos SIT yourself! Use only service providers authorized by EGZOTech.

Always use and store Mezos SIT and the accessories, according to their storage instructions.

Do not use Mezos SIT in a dangerous environment (includes explosion risk, gas risk, etc.).

Mezos SIT is intended for usage in a moisture-free environment. Keep away from water, including generated by other devices, e.g. kettles, nebulisers, showers etc.

Mezos SIT is intended to be used in the operating temperature, humidity and air pressure specified in chapter 10.2 Technical Specification.

Mezos SIT should be used in well lighted rooms.

Mezos SIT shouldn't be exposed to excessive sunlight.

Do not leave Mezos SIT unattended in the presence of children or pets.

Mezos SIT's Ingress Protection code (IP) is specified in chapter 10.2 Technical Specification. The rating is IP20, therefore:

- It is rated 2 for solid particle protection of objects larger than 12.5mm (0.49 in). This means that the enclosure provides protection against hazardous parts, especially electrical conductors and the ingress of solid foreign objects of the mentioned size,
- It is rated 0 for liquid ingress protection. This means that the enclosure does not provide liquid ingress protection.

Do not immerse Mezos SIT in water or any other liquid substance, including water vapour.

7.7 Lifetime

Mezos SIT, due to moving **mechanical parts, will experience wear and tear**. Due to some safety features being implemented by the use of those mechanical parts, periodical maintenance is required, based on your Mezos SIT usage. Mezos SIT's maintenance can be performed after a single fault has occurred. Official maintenance personnel approved by EGZOTech or its partners

can perform **periodic maintenance to ensure continuous stability and reliability of the device to prevent single fault conditions**. **There is a mid-life (every 5 years) major tune-up required**.

7.8 Annual maintenance

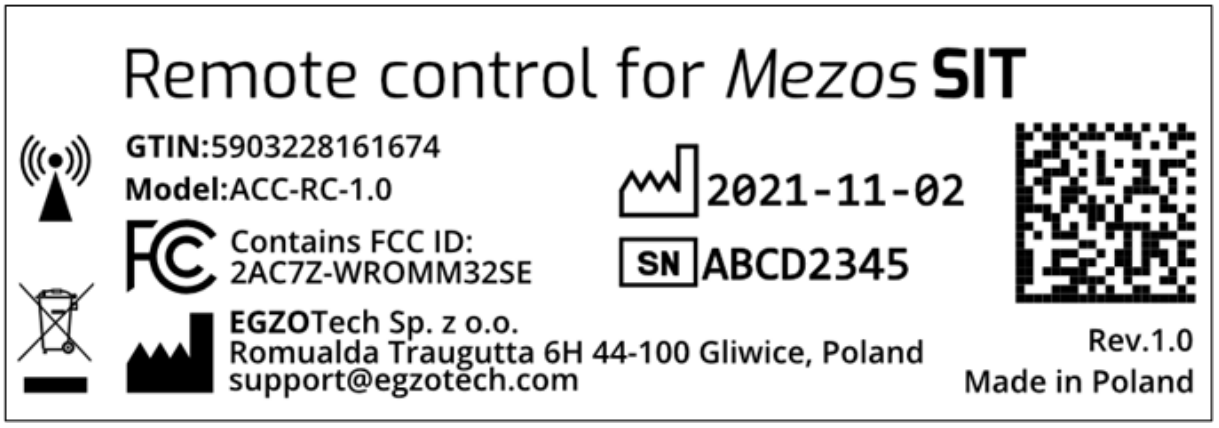
As with any medical device, to ensure ongoing safety and viability of Mezos SIT an **annual tune-up maintenance is required**. Your product specialist will schedule these maintenance visits with you. We strongly recommend you avoid skipping the annual tune-up maintenance and in unforeseen events contact your provider immediately. EGZOTech is not liable for any events that happen due to skipping the annual tune-up maintenance.

8. How to work safely with Mezos SIT?

8.1 Labelling

Mezos SIT's label is placed on the left side of its base. On the label user will find information about the owned unit of Mezos SIT. Mezos SIT uses safety symbols on the device itself, accessories, the remote control and the power cord.

Mezos SIT remote control and power cord also have their own labels. Below there are examples of those labels:

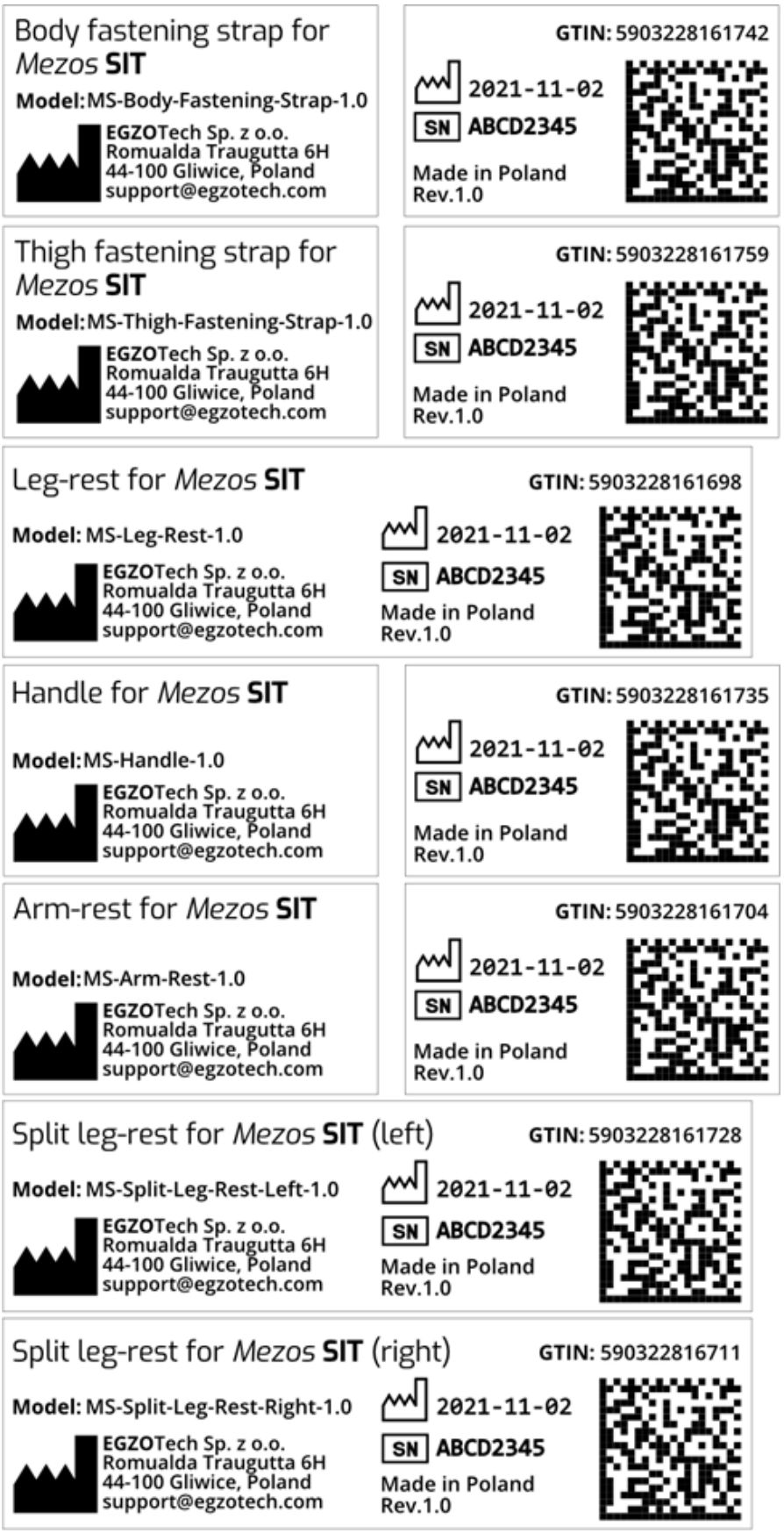


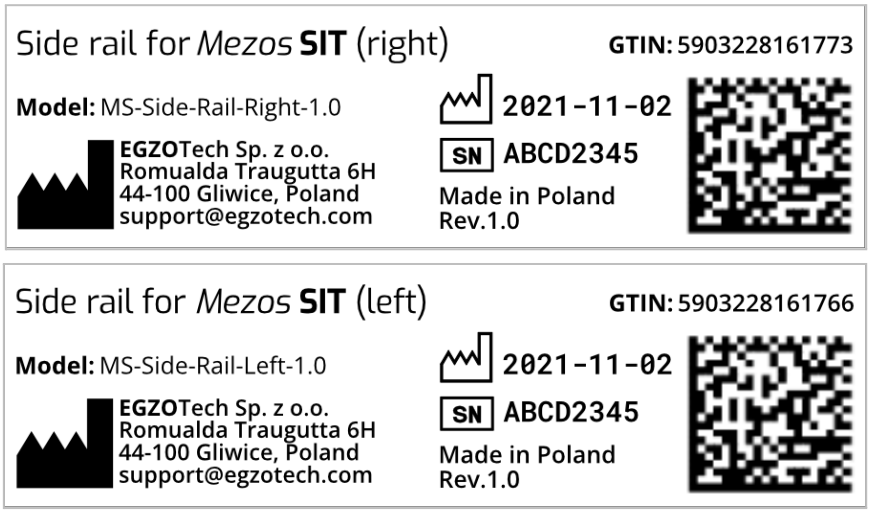
8.2 How to identify your Mezos SIT?

During troubleshooting and consulting with your product specialist or customer support, there may come a time, you will be asked to read your Mezos SIT Serial Number or remote control Serial Number.
In the white box on the lower part of the label on the left side of DataMatrix you can find the serial number SN.

8.3 Additional labels on accessories

Mezos SIT's detachable elements have additional labels, which help to identify them. Below there are examples of those labels:


Body fastening strap for *Mezos* **SIT**
Model: MS-Body-Fastening-Strap-1.0
EGZOTech Sp. z o.o.
Romualda Traugutta 6H
44-100 Gliwice, Poland
support@egzotech.com
GTIN: 5903228161742
2021-11-02
SN ABCD2345
Made in Poland
Rev.1.0
Thigh fastening strap for *Mezos* **SIT**
Model: MS-Thigh-Fastening-Strap-1.0
EGZOTech Sp. z o.o.
Romualda Traugutta 6H
44-100 Gliwice, Poland
support@egzotech.com
GTIN: 5903228161759
2021-11-02
SN ABCD2345
Made in Poland
Rev.1.0
Leg-rest for *Mezos* **SIT**
Model: MS-Leg-Rest-1.0
EGZOTech Sp. z o.o.
Romualda Traugutta 6H
44-100 Gliwice, Poland
support@egzotech.com
GTIN: 5903228161698
2021-11-02
SN ABCD2345
Made in Poland
Rev.1.0
Handle for *Mezos* **SIT**
Model: MS-Handle-1.0
EGZOTech Sp. z o.o.
Romualda Traugutta 6H
44-100 Gliwice, Poland
support@egzotech.com
GTIN: 5903228161735
2021-11-02
SN ABCD2345
Made in Poland
Rev.1.0
Arm-rest for *Mezos* **SIT**
Model: MS-Arm-Rest-1.0
EGZOTech Sp. z o.o.
Romualda Traugutta 6H
44-100 Gliwice, Poland
support@egzotech.com
GTIN: 5903228161704
2021-11-02
SN ABCD2345
Made in Poland
Rev.1.0
Split leg-rest for *Mezos* **SIT** (left)
Model: MS-Split-Leg-Rest-Left-1.0
EGZOTech Sp. z o.o.
Romualda Traugutta 6H
44-100 Gliwice, Poland
support@egzotech.com
GTIN: 5903228161728
2021-11-02
SN ABCD2345
Made in Poland
Rev.1.0
Split leg-rest for *Mezos* **SIT** (right)
Model: MS-Split-Leg-Rest-Right-1.0
EGZOTech Sp. z o.o.
Romualda Traugutta 6H
44-100 Gliwice, Poland
support@egzotech.com
GTIN: 590322816711
2021-11-02
SN ABCD2345
Made in Poland
Rev.1.0



8.4 Symbols

Below there is an explanation of all the symbols you'll encounter while using Mezos SIT.

Symbol	What it means
courses.egzotech.com	Indicates the need for the user to consult the instructions for use
100-240 VAC 50/60Hz 3A 252W (T 4AL, 250V fuse)	Indicates that the equipment is suitable for alternating current only; to identify relevant terminals
EGZOTech Sp. z o.o. Romualda Traugutta 6H 44-100 Gliwice. Poland support@egzotech.com www.egzotech.com	Indicates the medical devices manufacturer
=135kg =170kg	Maximum PATIENT weight and SAFE WORKING LOAD
YYYY-MM-DD	Indicates the date when the medical device was manufactured
SN XXXXXXXX	Indicates the manufacturer's serial number so that a specific medical device can be identified
	The device generates radio frequency energy during operation

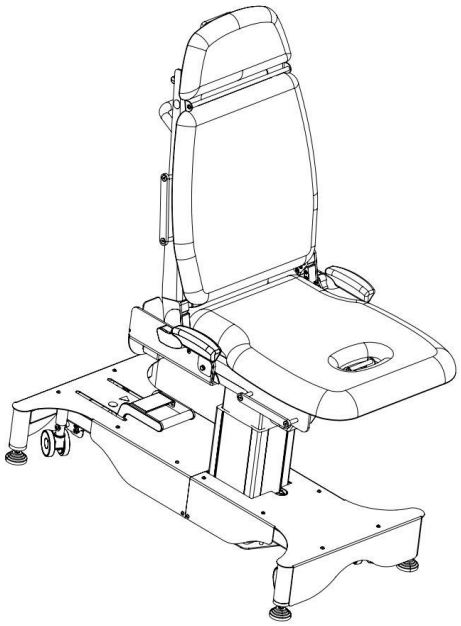
IP20	Ingress Protection
CE	CE marking indicates that a product complies with applicable European Union regulations
	Identifies a type B applied part complying with IEC 60601-1
	Indicates a product should not be disposed of in a landfill; the black bar indicates that the equipment was manufactured after 2005
	Refer to User Manual
	No stepping on surface
	No pushing
MD Medical Device	Indicates the item is a medical device
	Indicates that caution is necessary when operating the device or control close to where the symbol is placed, or that the current situation needs operator awareness or operator action in order to avoid undesirable consequences
	High Voltage Parts
Made in Poland	The country of origin must be visibly printed on the product and packaging
	No sitting

	No reaching in
	Warning: Crushing of hands
	FCC mark
	Indicates the temperature limits to which the medical device can be safely exposed
	Indicates the range of humidity to which the medical device can be safely exposed

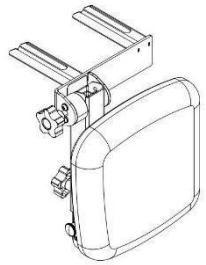
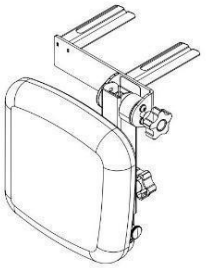
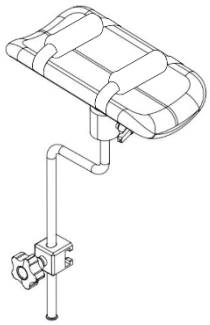
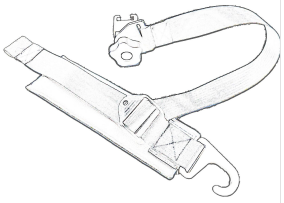
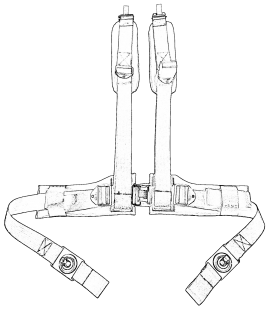
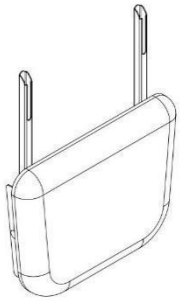
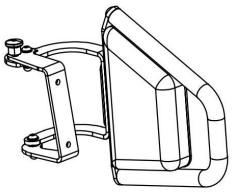
9. What will I find in the package?

Depending on your order and configuration, you may find the following products associated with Mezos SIT included.

9.1 Mezos SIT

How it looks like	What it is
	Mezos SIT chair 1 pcs.

9.2 Accessories

How it looks like	What it is	How it looks like	What it is
	Split leg rest (left) 1 pc		Split leg rest (right) 1 pc
	Arm-rest 1 pc		Tight fastening strap 1 pc
	Body fastening strap 1 pc		
	Leg-rest (opcjonal) 1 pc		Handle (opcjonal) 1 pc
	Side rail right (opcjonal) 1 pc		Side rail left (opcjonal) 1 pc

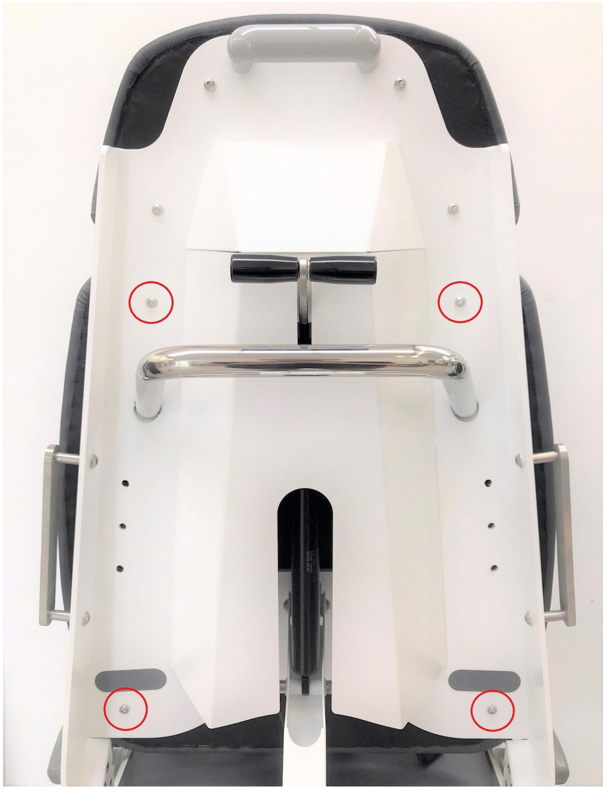
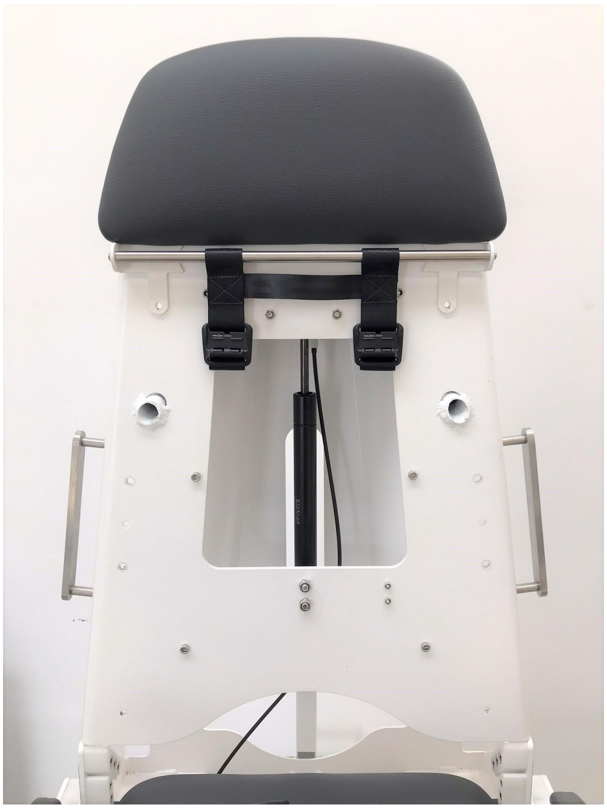
9.3 Main cables

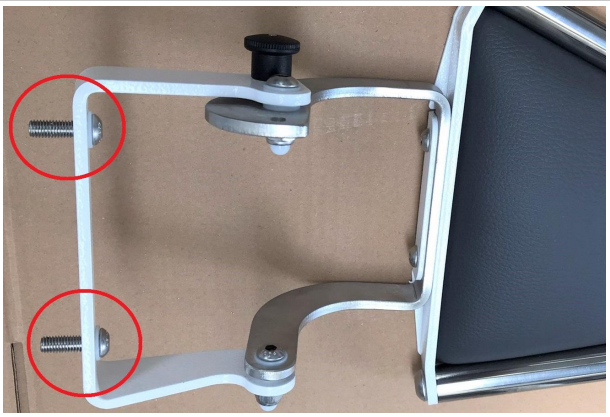
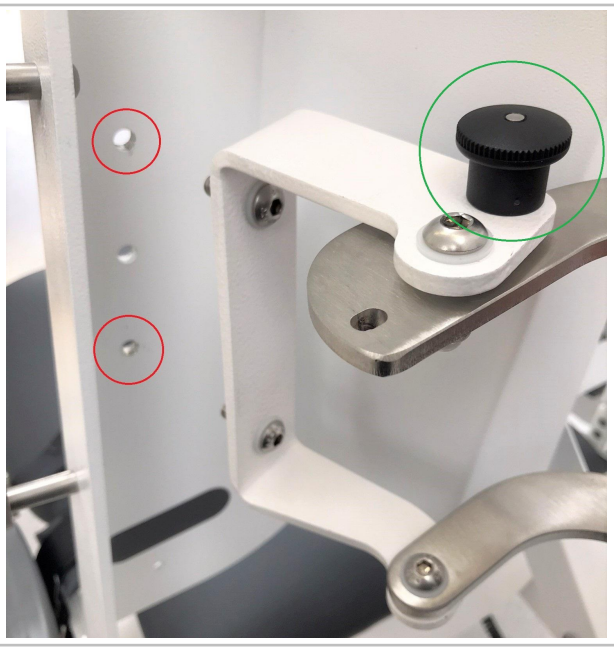
How it looks like	What it is	How it looks like	What it is
	5m power cord 1 pcs.		Remote control with cable 1 pcs.

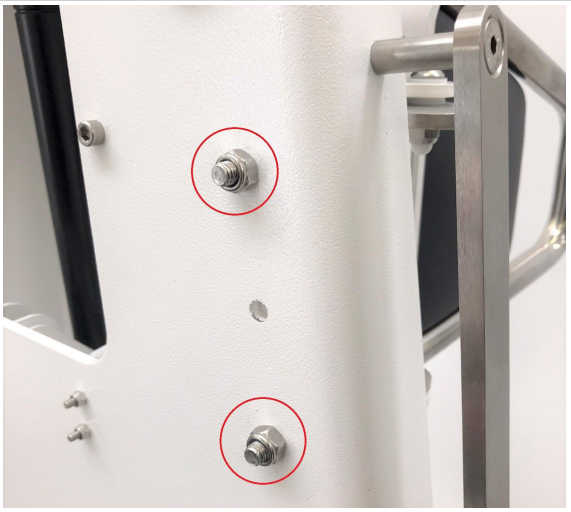
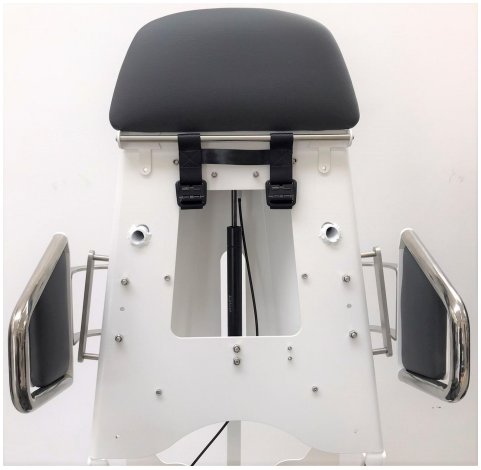
9.4 Assembly of side rails

This instructions shows how to install side rails to Mezos SIT chair (applies only to Mezos SIT without optional accessories).

Assembly	How to do?
	Initial view.

	Unscrew 4 screws from back padding. Use allen key size 4. 
	Remove backrest padding.

	Use the 4 screws with washers and 4 self-locking nuts.
	Put the screws with washers into holes in side rails (left and right).
	Instal screws into upper and lower holes, **Attention!**. Pin position arrangement to the top.

<table>
<tr>
<td>  </td>
<td>Screw down self-locking nuts.
Use allen key size 5. and spanner wrench size 13.
  </td>
</tr>
<tr>
<td>  </td>
<td>Chair with installed side rails.</td>
</tr>
<tr>
<td>  </td>
<td>Instal backrest padding.</td>
</tr>
</table>

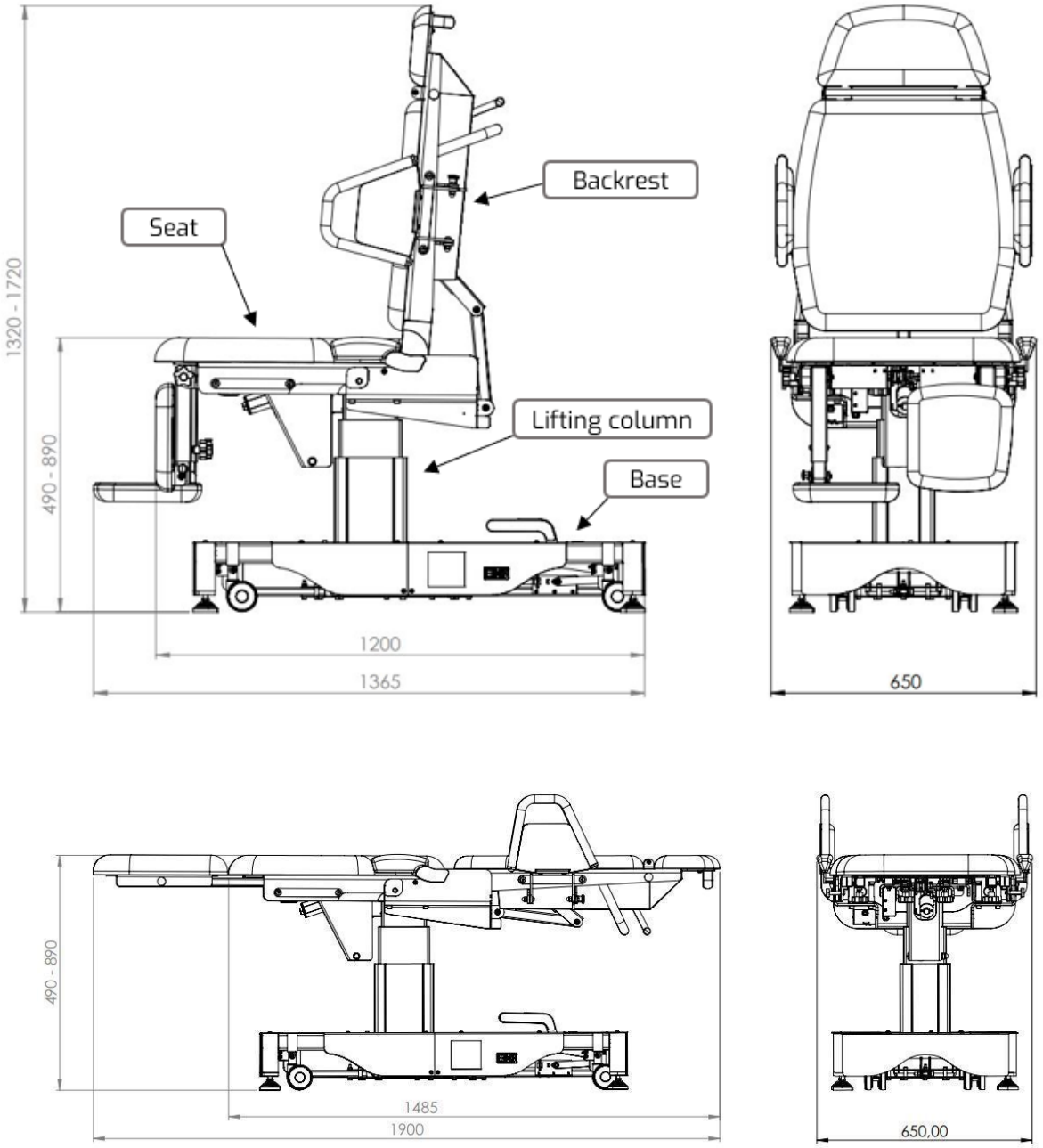
	Final view.

10. Basic information about Mezos SIT

10.1 How is Mezos SIT built?

10.1.1 Major components

Mezos SIT consists of four major components: base, lifting column, seat and backrest. You can see them in the figure below.

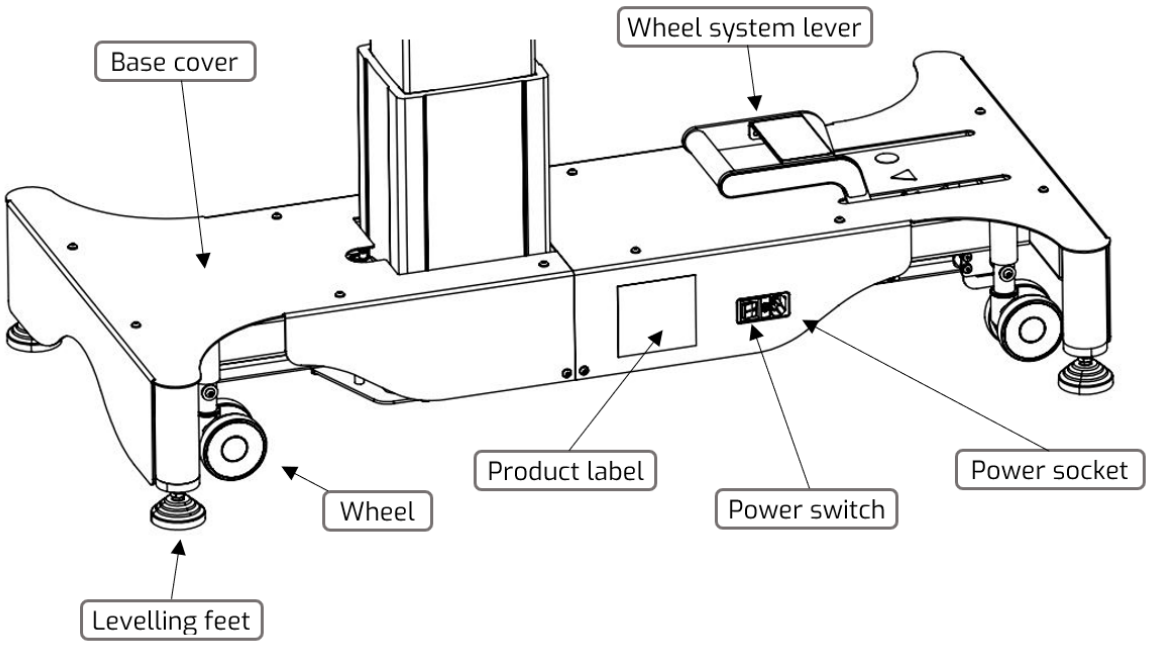


10.2 Technical Specification

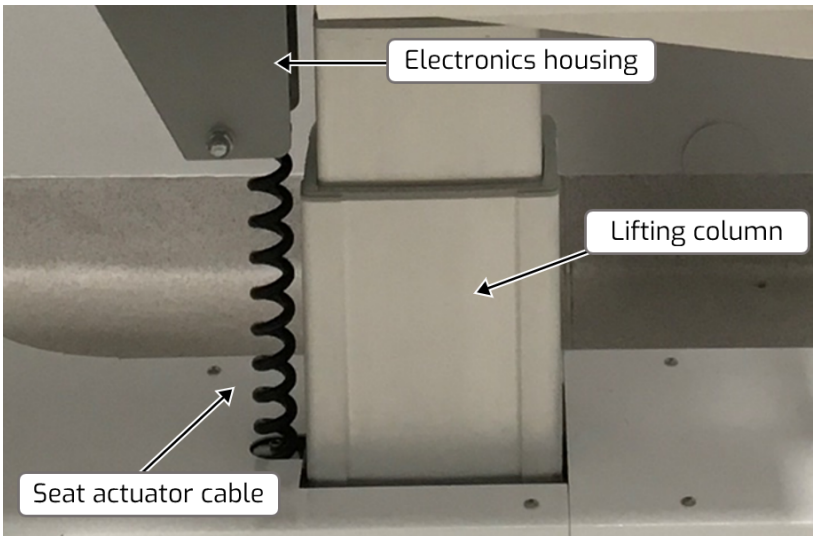
ESTABLISHED AND TRADE NAME:
Mezos SIT
DIMENSIONS & WEIGHT:
Total width: 650 mm
Seat width: 580 mm
Total length: 1200 mm (foot support folded), 1900 mm in couch mode
Total height: 1320 - 1720 mm, 490 – 890 mm in couch mode
Total weight: max. 137 kg (with accessories max. 148 kg)
Maximum patient weight: 135 kg
Safe working load: 170 kg
ENVIRONMENT:
Operating temperature: 10 °C to 40 °C
Maximal temperature variation in 12h: 20 °C
Operating humidity: 10% to 90% RH, not-condensing
Maximum operating altitude: 3 000 m a.s.l.
Cooling: convectional
Liquid ingress and solid particle protection: IP20
Mobility: under the operating environmental conditions listed above.
Operation type: Intermittent, 2 min (on)/ 18 min (off)

MECHANICAL PROPERTIES:
Seat height: 490 - 890 mm
Seat tilt: 0° - 20°
Seat depth: 450 - 570 mm
backrest inclination: 87° - 0°
Split leg-rest inclination: 15° - 90°
OTHERS:
Power supply: 100-240V, ~50/60 Hz grounded
Current required: max. 3A at 252W
Applied part type: B
Protection class against electric shock: class I
Fuses used: T 4AL, 250V
Power cord length: 5 m
Remote control cable length: 0,5-2 m

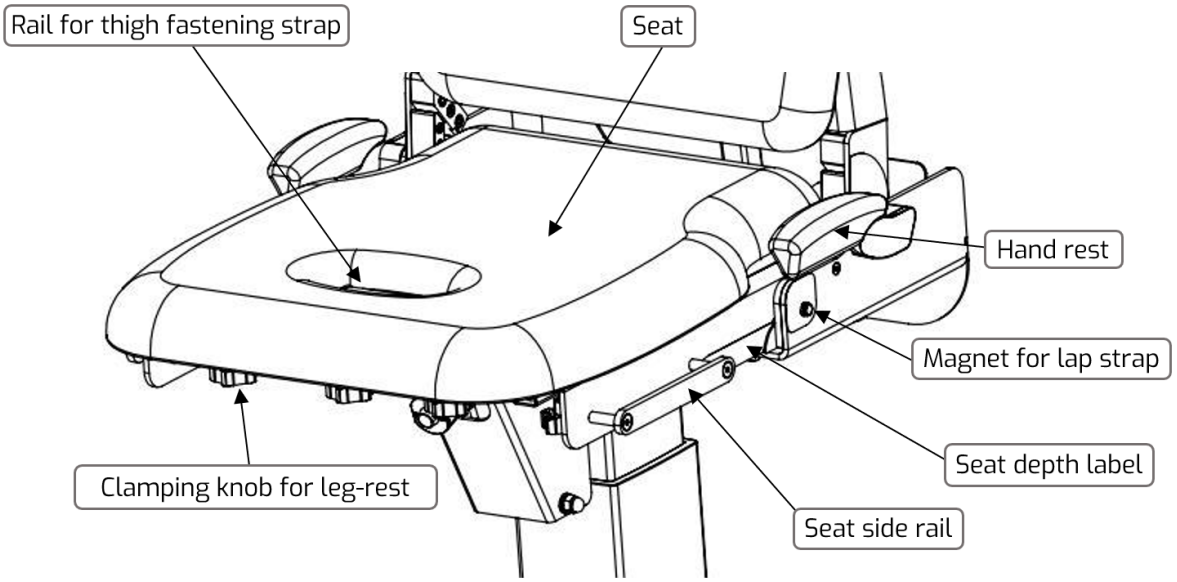
10.3 Base



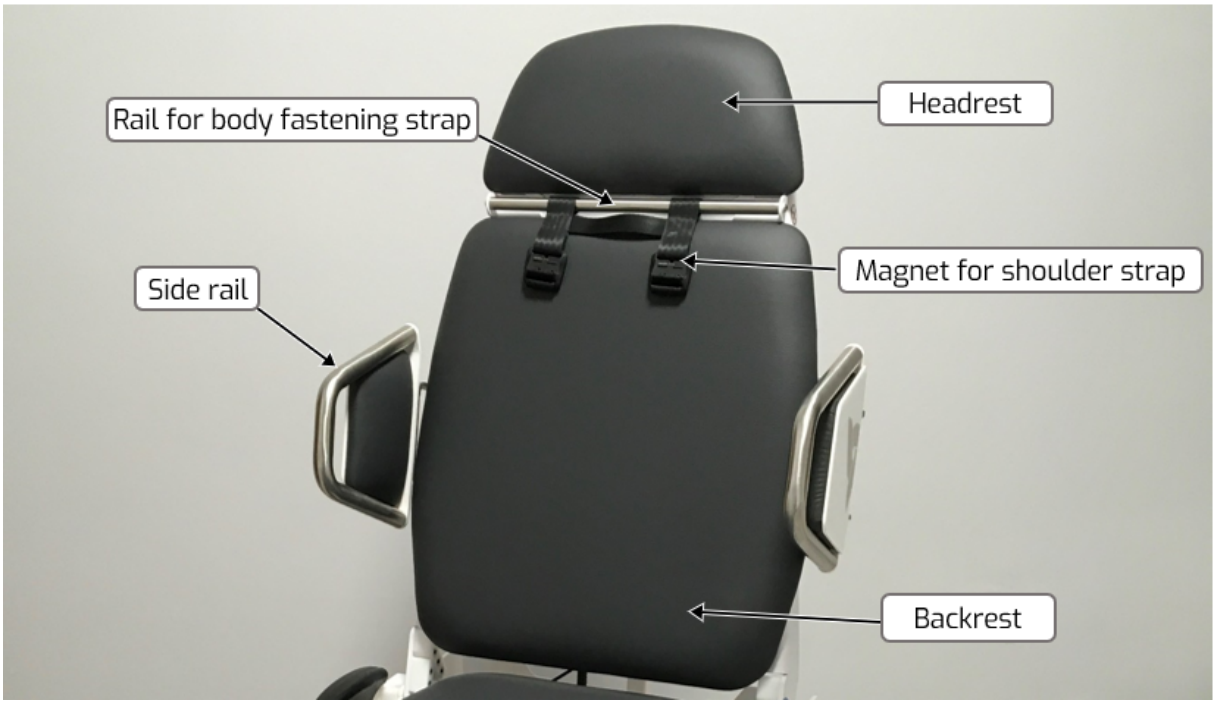
10.4 Lifting column

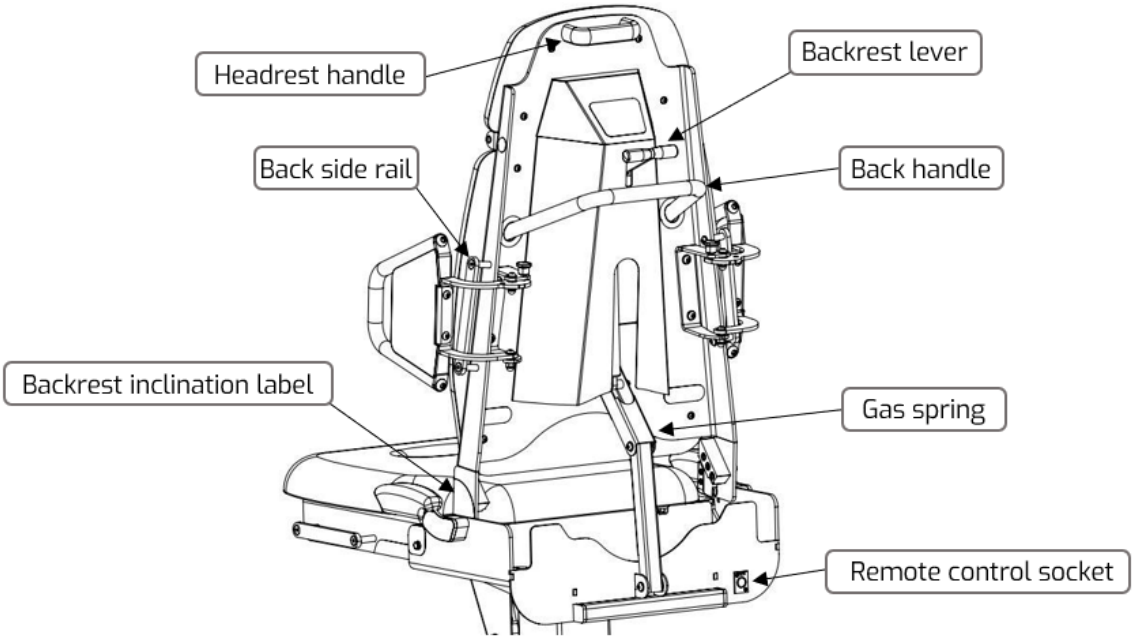


10.5 Seat



10.6 Backrest





10.7 Remote control

Remote control can be operated only by Mezos SIT operator. It should be kept in a safe place and out of the patient's reach to avoid accidental pressing the buttons. Remote control has the hook on its back, which enables to hang it up (e.g. on the back handle and seat or back side rail) while it is not being used.
To disconnect the remote control cable from the Mezos SIT, press down the small lever located above the remote control socket.

10.8 Button functions

All chair movements are being performed only **while the button is held**. Below there is description of all button functions:

Button	Action	Button	Action
^	Move the chair up	v	Move the chair down
<	Lean the chair forward	>	Lean the chair back
HOME	Move the chair down and lean the chair forward (to home position)	AUTO	Move the chair to selected position

"AUTO" button enables to move the chair to selected position, if Mezos SIT is connected via Bluetooth with the app and the position has been selected. Currently function is not available.

10.9 LED Ring indications

The remote control LED Ring consists of 12 multicolour (RGB) LED diodes ordered in a full circle. During standard operations, those diodes will light up to notify the users of the chair's actions, emergencies, as well as current states. The table below is a list of the most important notifications (except alarm notification):

Notification		What does the LED Ring look like?
System is ready		All LEDs are blinking in white
Remaining time of constant work is decreasing		All LEDs are gradually changing their colour to **orange**
Chair is moving up		Two pairs of **purple** LEDs are moving up
Chair is moving down		Two pairs of **purple** LEDs are moving down
Chair is leaning forward		Two pairs of **blue** LEDs are moving counter clockwise
Chair is leaning back		Two pairs of **blue** LEDs are moving clockwise
Chair is moving to home position		Two pairs of **green** LEDs are moving down
'AUTO' button is pressed	Chair is moving to selected position	Two pairs of **green** LEDs are moving up
	Mezos SIT is not connected with app or position has not been selected	All LEDs blink in **green** once

LED Ring indications may be hardly visible in a very bright room. Keep remote control out of patient sight, so as to the LED Ring doesn't distract them during examination or treatment procedure.

Do not stare at the LED Ring for longer than 30 seconds.

10.10 Alarm system

While using Mezos SIT you may encounter following visual notifications from Mezos SIT's alarm system:

Severity	Alarm notification	What does the LED Ring look like	What should you do
Warning	Maximal time of constant work has been exceeded	All LEDs blink in **orange** 3 times	Mezos SIT will cease all its movements and you have to wait around 10 minutes until LED Ring shows notification about system ready
Warning	Limit position has been reached	All LEDs blink in **blue** once	Release the button
Emergency	Device failure	All LEDs are blinking in **red**	Turn Mezos SIT off and contact your product specialist

11. Operating and adjusting Mezos SIT

Before operating or adjusting Mezos SIT, ensure free space around it to avoid collision with other objects. During operating and adjusting Mezos SIT, ensure safety of third parties.

All operations and adjustments listed in this chapter can be performed only by Mezos SIT operator. Patient cannot operate or adjust the chair on their own.

11.1 Transporting

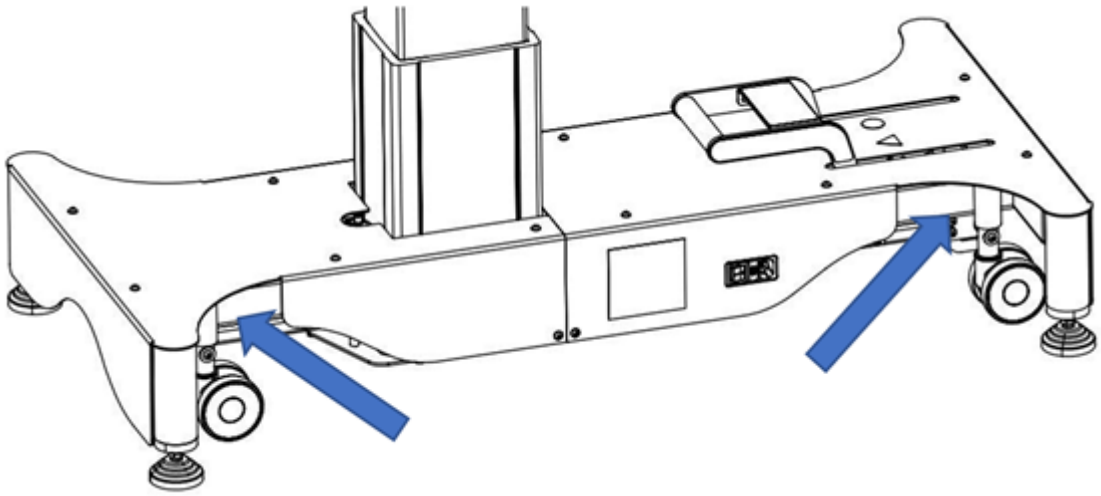
Before transporting Mezos SIT:

1) Move the chair to home position (maximally lowered and not tilted).
2) Straighten the backrest up.
3) Unplug the power cord.
4) Eject wheels by pulling the lever located on the chair's base to the vertical position.

Use the back handle to move Mezos SIT.

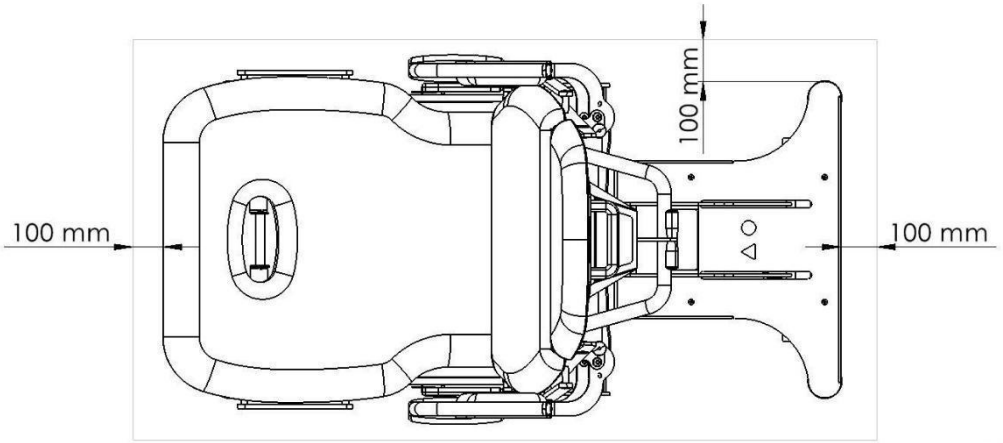
While transporting Mezos SIT, **wheels have to be ejected**.
Do not transport any weights or persons on the chair.
Do not transport or change Mezos SIT position while it is connected to power supply.

Mezos SIT is designed to be able to ride over obstacles which are 2 cm high at most. If Mezos SIT cannot ride over the obstacle, lift its front part and ride through the obstacle, and then do the same with the back part. While lifting Mezos SIT, hold it for the support frame of the base in its corners as in the picture below:



11.2 Mezos SIT positioning

Before positioning Mezos SIT, make sure that no objects or body parts are between the wheel system lever and base cover, and under the chair's base or in close proximity of it - at least 10 cm in every direction from chair's base as in the picture below:



Mezos SIT has to be placed on the floor!
There is a risk of crushing while positioning Mezos SIT on its levelling feet.

To stabilize the chair on its levelling feet, push the wheel system lever to the horizontal position. While operating the lever with one hand, it is advised to put the other hand on the back handle to avoid crushing. If the lever won't automatically move to the horizontal position after being pushed, check the levelling feet height and adjust it following instructions below.

11.3 Patient positioning

While positioning patient on the chair, follow the order listed below:

1) Make sure that the wheel system lever is in a horizontal position and the chair is standing on its levelling feet.
2) Lower and straighten the seat to the home position and move the backrest maximally backward.
3) Help your patient sit down on the chair.
4) Adjust seat depth.
5) Fasten body strap loosely (if there is a need to use it).
6) Adjust backrest inclination (not exceeding 45° limit of deflection).
7) Tighten body strap.

Before the patient sits down on the chair, remember to retract the wheel system using the lever to stabilize the chair on levelling feet.
If Mezos SIT is used as a couch, backrest inclination angle should be adjusted **before** the patient sits down on the chair.
It is forbidden to change Mezos SIT position while the patient is sitting on it.

It is allowed to get on or off the chair only while the seat is lowered and not tilted. While getting on or off the chair, patient should use only the seat. Patient should sit in the middle of the seating surface. It is forbidden to sit on the leg-rests, backrest, headrest or step on single leg-rest with unfolded foot-support.

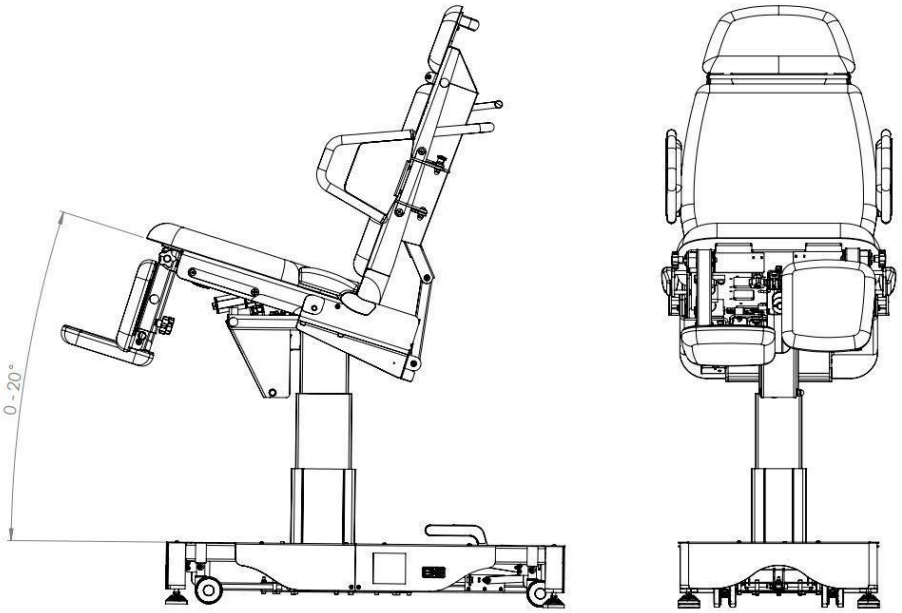
11.4 Adjusting

While adjusting Mezos SIT, **all patient's limbs have to be placed in a safe and visible for chair's operator position** (e.g. both legs on the leg-rests, hands on patient's knees, arm on the armrest).

11.5 Seat height and tilt

To adjust seat height or tilt, use the remote control. You can find the remote control's function description in the chapter 10.7 Remote control.
Mezos SIT's lifting column and the seat actuator work in the intermittent mode (2 minutes on, 18 minutes off). The remaining time of constant work is decreasing while working and is increasing while resting. After 2 minutes of constant work of lifting column and/or seat actuator Mezos SIT will stop and the remote control LED Ring will display notification about exceeding the maximal time of constant work. There is no danger in this case, but before resuming adjusting seat position it is necessary to wait at least 10 minutes until the LED Ring shows notification that the system is ready to work.

While adjusting seat position using remote control, **stand back and keep safe distance from Mezos SIT.**

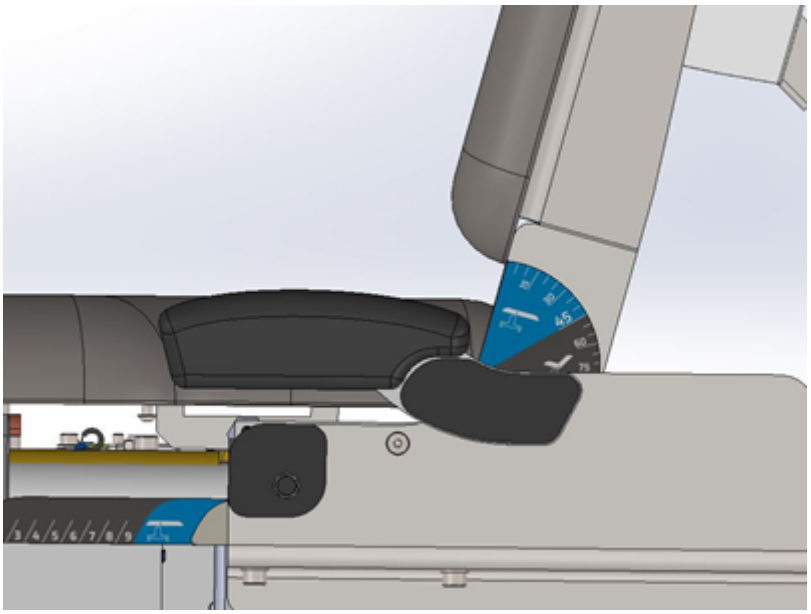


Do not tilt the seat if the backrest inclination angle is below 45° (Mezos SIT in couch mode). There is a risk of patient fall and collision of backrest or side rails with Mezos SIT base.
Before moving the seat down, deflect split leg-rests forward for at least 20° from the vertical and shorten their length maximally. Otherwise, the leg-rest may hit the floor or the base.

11.6 Seat depth and backrest inclination

To adjust seat depth, pull up the backrest lever located at the back of the backrest and move the backrest forward or backward.
To adjust backrest inclination, pull down the backrest lever and move the backrest up or down.

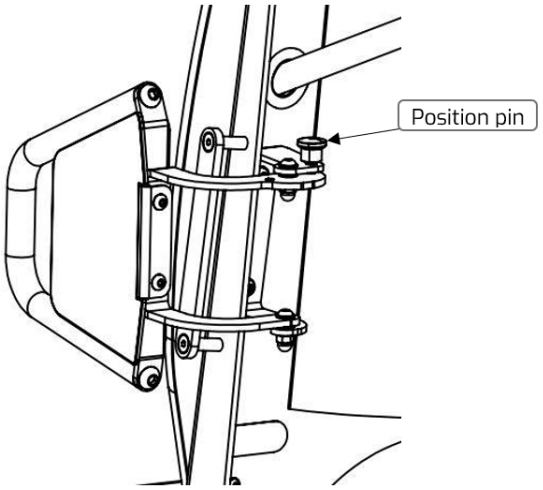
On the left and right side of the backrest and the seat there are two pairs of labels – seat depth labels and backrest inclination labels. Seat depth is indicated by the curved element of the seat cover. backrest inclination angle is indicated by the edge of the seat cover.



Do not change seat depth or backrest inclination while lifting column or seat actuator are working.
Do not change seat depth when the backrest or the seat is tilted, especially while the patient is sitting on it.
Do not change backrest inclination if the seat is tilted.
Backrest inclination can be changed only if the backrest is pushed back for at least 10 cm (blue area on the seat depth label).
If patient is sitting on the chair, changing backrest inclination should be performed slowly and with due attention to ensure patient comfort and safety.
If patient is sitting on the chair, do not change backrest inclination from chair to couch mode (and vice versa).

11.7 Side rails position

Mezos SIT's side rails are intended to improve comfort and protect patient from fall.
Both side rails can be set in 2 positions – retracted behind the backrest or ejected in front of the backrest. To change the side rail position, pull up the position pin.

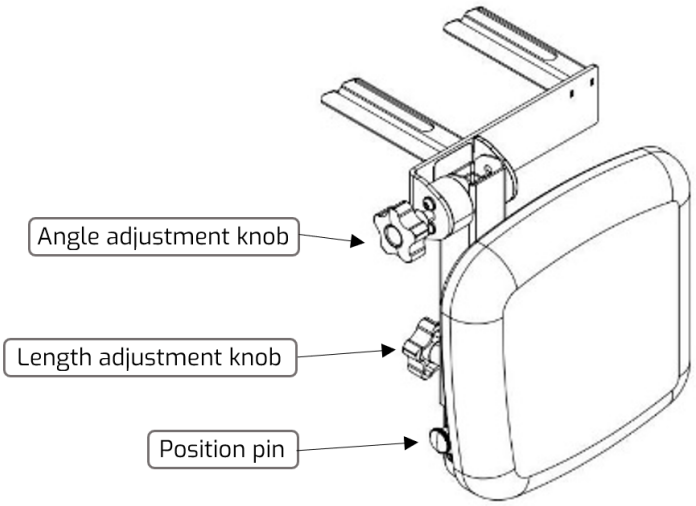


Before changing side rails position, make sure that no objects or body parts are between the backrest and the side rail hinges.

12. Accessories

All accessories listed below can be replaced or adjusted only by Mezos SIT operator.

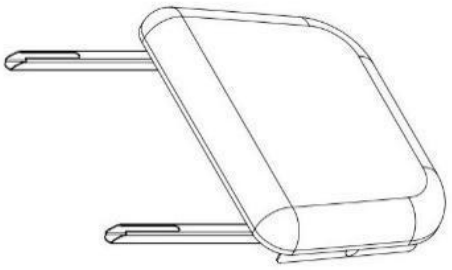
12.1 Split leg-rests



To attach the leg-rest to the chair, place it in the rails under the seat (the left leg-rest in 2 left rails, the right leg-rest in 2 right rails) and **tighten the clamping knobs**.
To adjust leg-rest length or angle, loosen the proper knob, set the leg-rest in the desired position, and tighten the knob.
To unfold the foot support, pull up the position pin.

Do not stand or step on single leg-rests with unfolded foot-support.

12.2 Leg-rest



To install leg-rest, place it in 2 rails under the seat and **tighten the clamping knobs**.

Do not replace any accessory which is placed in the rails under the seat while Mezos SIT is connected to the power supply or the patient is sitting on the chair.

12.3 Body fastening strap

Body fastening strap is intended to stabilize the patient on the chair. It should be used if the patient is not able to support themselves on the chair or if there is a need to immobilize the patient's body during examination or treatment procedure.

Do not use the body fastening strap if the patient suffers from skin hypersensitivity.

To attach shoulder straps to the chair, connect shoulder straps magnets to the matching magnets on the short strap put on the rail between headrest and backrest. To detach the shoulder strap from the chair, pull the red strap connected with the magnet.

To attach lap straps to the chair, connect lap straps magnets to the matching magnets on the both sides of the seat. To detach the lap strap from the chair, pull down the lap strap magnet.

Fastening straps cannot be twisted. The lap strap should be guided between the seat and hand rest.

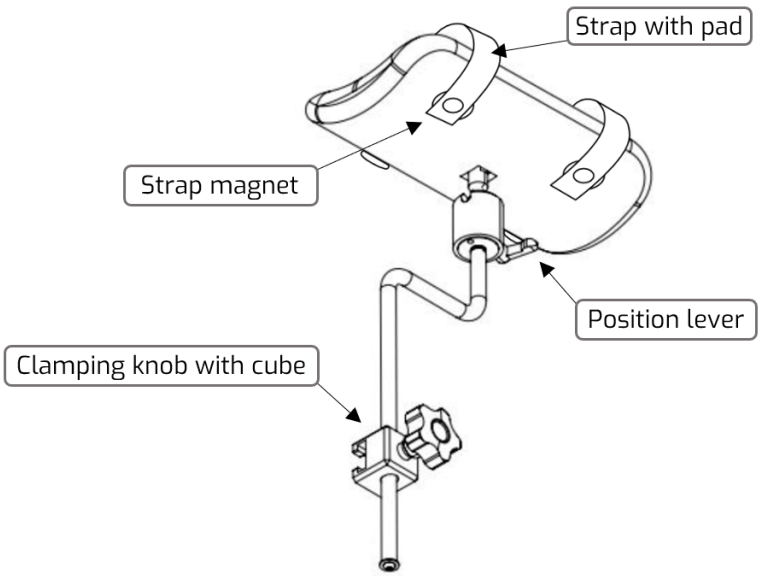
Shoulder and lap pads are connected to the straps with hook and loop fasteners.

To stabilize the patient on the chair, attach straps to the chair with magnets, fasten the buckle, adjust length of lap straps and adjust length of shoulder straps. Adjust backrest inclination **before** tightening the body fastening strap.

To shorten one of the straps (and any other accessory's strap), pull its loose end. To extend the strap's length, loosen it in its ladder lock.

To unfasten the buckle, pull its red strap.

12.4 Armrest

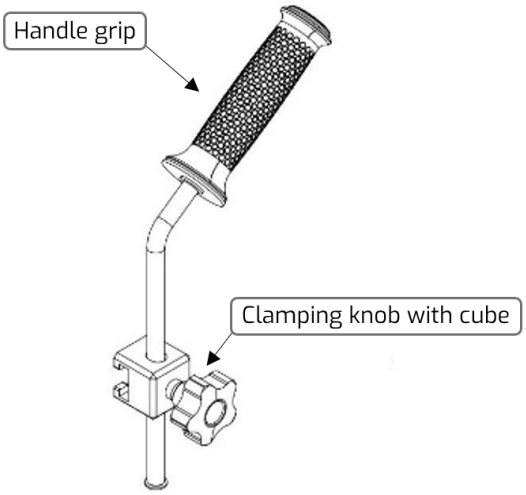


The armrest, handle and thigh fastening strap can be placed on one of the seat or back side rails using a metal cube with a clamping knob. To install those accessories:

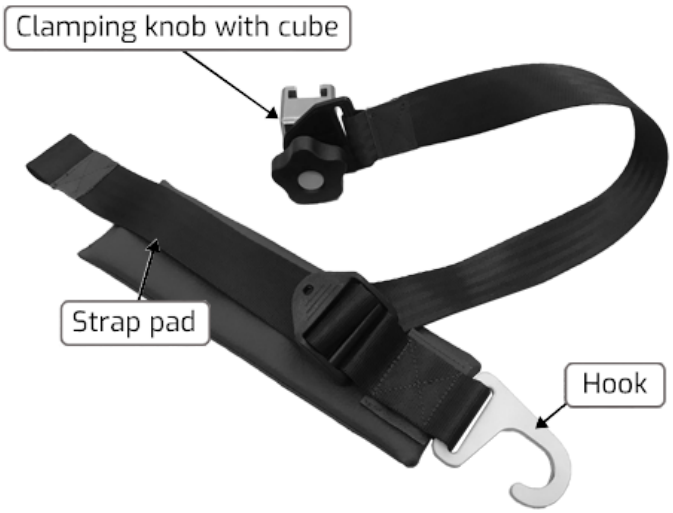
1) Loosen the knob,
2) Put the cube on the side rail,
3) Place it in the desired position between heads of side rail screws and adjust its height and rotation angle,
4) Tighten the knob.

To adjust the position of the upholstered part of the armrest, release the blockade by turning the lever counter clockwise and lock it after adjusting by turning the lever clockwise.

12.5 Handle

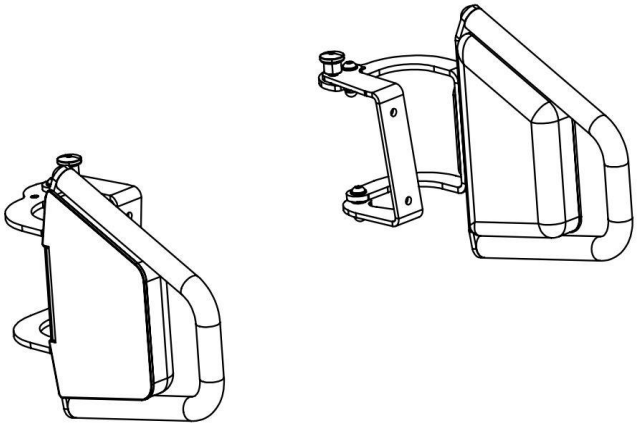


12.6 Thigh fastening strap



To attach the thigh fastening strap, attach its first end to one of the seat flat bars using the metal cube and hook the second end of the strap to the metal rod located on the seat.

12.7 Side rails



Side rails are optional. They increase safety against the patient sliding to the side. It is possible to tilt the rails back in order to perform the exercise or when the patient is sitting on the chair.

13. Miscellaneous

13.1 Electrical isolation information

This chapter gives you basic information on how AC voltage is isolated in Mezos SIT.

- Mezos SIT is equipped with a permanently mounted AC power inlet/switch described in chapter 9.1 Mezos SIT. By detaching the AC cable or turning the switch OFF, you are disconnecting both poles of the AC voltage (compatible with IEC 61058-1 standard),
- The AC voltage is connected to Mezos SIT by a power cord specified in chapter 9. What will I find in the package?,

13.2 Expected product service life

Expected product service life of Mezos SIT is 5 years, under normal operations and proper maintenance and handling. Mezos SIT's accessories and detachable parts **will experience normal wear and tear**, which will decrease the product service life.
Expected shelf life and product service life for accessories, including surface may differ. Below there is a list of elements with expected shelf life different from 5 years:

Element	Expected shelf life
Gas spring	2 years
Industrial shock absorber	
Lifting column	
Seat actuator	
Power cord	3 years
Remote control cable	

Please refer to associated documents and packaging for more information.
If you see any of Mezos SIT's parts declining in performance, especially the chassis or any of the accessories, please consider replacement.
Detectable device failures are signalised by the LED Ring.

13.3 Storage and transportation instructions

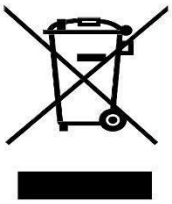
The device and accessories should be stored in a dry environment. Do not immerse them in water or liquid.
Storage and transportation conditions for Mezos SIT should be:

- Temperature: 0 ◦C to 40 ◦C,
- Relative humidity: 10% to 90% RH, non-condensing.

Do not expose Mezos SIT and accessories to high temperatures, above specified. Since short circuits can cause burn hazard or gas release, do not store metal jewellery, metal covered tables, or metal belts.

13.4 How to safely dispose of the device?

Mezos SIT contains electrical and electronic components that may contain materials which, if disposed with general waste, could be damaging to the environment. Residents of the European Union must follow specific disposal or recycling instructions for this product. Residents outside the European Union must dispose or recycle this product in accordance with local laws or regulations that apply.



The pictogram wheeled bin barred means that the equipment can't be thrown with the household refuse, but that it makes the object of a selective collection.

The equipment has to be given to a suitable collection point for the treatment. By this way, you contribute to the safeguarding of the natural resources and human health protection.

13.5 Warranty

EGZOTech Sp. z o. o. provides a warranty to the original purchaser that this product will provide for a period of 1 years from the date of purchase.
Within the warranty period, the manufacturer will replace your faulty Mezos SIT or accessories at no charge (except shipping & handling fees in some cases), provided that the product:

- Has been used for the intended purpose and in the manner described in this manual.
- Has not been connected to an unsuitable power source.
- Has not been subjected to misuse or neglect.
- Has not been modified or repaired.
- Has not been damaged further by shock.

Warranty does not cover damage of mechanical elements regulated with clamping knobs.
Legal rights are not affected by this warranty.

14. Cleaning

For long life and excellent quality, remember to clean Mezos SIT and accessories on a regular basis. Follow the rules below:

Part of Mezos SIT	How to clean it?
Chair's case and cables, (metal, plastics, polyesters, labels, upholstery), Accessories	Use moist cloth with **70 % isopropyl alcohol** for cleaning and disinfection of the device: **STEP 1 :** Move Mezos SIT to its home position. **STEP 2:** Turn the device off and disconnect the power cord and all accessories. **STEP 3:** Any excess of the soil can be removed by wiping the device or accessory with the cloth/paper towel, soft brush or sponge moistened with 70% isopropyl alcohol and left to dry for 5 min. **STEP 4:** Spray the 70% isopropyl alcohol directly on the device and leave for a period of time indicated in the instructions attached to the cleaning agent. (until dry). Do not allow the disinfectant to soak in for longer than necessary. **STEP 5:** Wipe the device with a dry cloth/paper towel.

Never clean Mezos SIT while the AC cable is connected. This may result in electric shock or short circuit the electronics inside. Never use running water or other fluids for cleaning. Do not sterilize.

Never use oxide-base detergents, salt solution or any other cleaning detergent that have active oxygen or chlorine, due to possible surface damage. **Do not use** metal brushes, files or wiry sponges for cleaning.

- For best cleaning experience we advise the use of a high level disinfectant that can handle both bacterial and viral contaminations. An example can be Amity International's Virusolve+ products, both in a form of spray and wipes.
- While using high level disinfectant always follow the guidelines for safety. Especially if you are using the solution on upholstered or cloth based elements, always wipe it with the cloth moistened with water afterwards and then with a dry cloth or paper tower to prevent the product from staying on for too long. Always follow the instructions provided by the disinfectant's manufacturer.
- Always remove any oil, grease or sweat from the upholstery immediately.

Mezos SIT is used for multiple patients, please:

1. Clean Mezos SIT and accessories after every use and before first use that day, according to the instructions above.
2. Consider using multiple fastening straps, to limit exposure between patient-to-patient.
3. Mezos SIT and its accessories should be dried before storage or re-use.
4. Store according to 13.3 Storage and transportation instructions.

15. Declaration of conformity and compliance statements

15.1 Declaration of conformity

We hereby declare that Mezos SIT, complies with the Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 concerning medical devices, Annexes I and IV.
Classification: Class I, rule 13, according to Annex VIII of the Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017.

15.2 Radio Regulatory Statement

FCC Statement
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device contains an RF module with FCC ID: 2AC7Z-ESPWROOM32D.

15.3 Manufacturer's declaration – electromagnetic emissions

Mezos SIT is intended for use in the electromagnetic environment specified below. The customer or the user of Mezos SIT should assure that it is used in such an environment.
Mezos SIT complies with the electromagnetic compatibility requirements for emissions and immunity, specified in the tables below. Users must adhere to the electromagnetic environment guidance and any deviations from collateral standards specified. For necessary instructions for maintaining basic safety and essential performance in relation to electromagnetic disturbances and expected service life, please refer to general warnings, described in this manual.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	Mezos SIT uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	Mezos SIT is suitable for use in professional healthcare – hospitals, clinics.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

15.4 Manufacturer's declaration – electromagnetic immunity

Mezos SIT is intended for use in the electromagnetic environment specified below. The customer or the user of Mezos SIT should assure that it is used in such an environment.
Mezos SIT complies with the electromagnetic compatibility requirements for emissions and immunity, specified in the tables below. Users must adhere to the electromagnetic environment

guidance and any deviations from collateral standards specified. For necessary instructions for maintaining basic safety and essential performance in relation to electromagnetic disturbances and expected service life, please refer to general warnings, described in this manual.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic materials, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines	± 2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% U_T; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% U_T; 1 cycle and 70% U_T; 25/30 cycles h) Single phase: at 0° 0% U_T; 250/300 cycle	0% U_T; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT; 1 cycle and 70% UT; 25/30 cycles h) Single phase: at 0° 0% U_T; 250/300 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of Mezos SIT requires continued operation during power mains interruptions, it is recommended that Mezos SIT be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
U_T is the a.c. mains voltage prior to application of the test level.			
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3V/m 80 MHz to 2,5 GHz	3 Vrms 150 kHz to 80 MHz 3V/m 80 MHz to 2,5 GHz	Portable and mobile RF communications equipment should be used no closer to any part of Mezos SIT, including cables, than the recommended separation distance calculated from the

			equation applicable to the frequency of the transmitter. Recommended separation distance $d = \left[\frac{3,5}{V_1}\right]\sqrt{P}$ For 80 MHz to 800 MHz: $d = \left[\frac{3,5}{E_1}\right]\sqrt{P}$ For 800 MHz to 2,5 GHz: $d = \left[\frac{7}{E_1}\right]\sqrt{P}$ Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d in the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by electromagnetic site surveys, should be less than the compliance level in each frequency range. [B] Interference may occur in the vicinity of equipment marked with the following symbol: 
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
[a] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered, if the measured field strength in the location in which the [ME EQUIPMENT or ME SYSTEM] is used exceeds the applicable RF compliance level above, the [ME EQUIPMENT or ME SYSTEM] should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the [ME EQUIPMENT or ME SYSTEM]. [b] Over the frequency range 150 kHz to 80 MHz, field strengths should be less than [V_1] V/m.			

15.5 Recommended separation distances between portable and mobile RF communications equipment and Mezos SIT

Mezos SIT is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Mezos SIT can help prevent

electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Mezos SIT as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter (m)		
	150 kHz to 80 MHz $d = \left[\frac{3,5}{V_1}\right]\sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3,5}{E_1}\right]\sqrt{P}$	800 MHz to 2,5 GHz $d = \left[\frac{7}{E_1}\right]\sqrt{P}$
0,01	0,12	0,12	0,24
0,1	0,37	0,37	0,74
1	1,17	1,17	2,34
10	3,69	3,69	7,38
100	11,67	11,67	23,34
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

Thank you for taking your time to read this manual!

Feel free to contact us at any time. We are here for you!

The service request form is available at:

HTTPS://SERVICE.EGZOTECH.COM

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