

Contraindications and Precautions of Motus Series (ArmMotus EMU, ArmMotus M2 Pro, WristMotus, AnkleMotus)

Contraindications of ArmMotus EMU and ArmMotus M2 Pro

Absolute Contraindications: The device must not be used!

- Shoulder or elbow fixed joint contracture in the affected limb that prevents movement along the entire dynamic range required by robotic therapy.
- Severe pain syndromes caused or intensified by the ArmMotus EMU/ ArmMotus M2 Pro training.
- Bone or skin disease that might increase the risk of bone fracture or skin sensitivity and injury.
- Inability to learn such as with advanced dementia or Alzheimer's Disease.
- Recent MI(myocardial infarction), significant cardiac disease, PVD (peripheral vascular disease with claudication), etc.
- Contraindications against bringing the patient to a semi-seated position.

Contraindications of AnkleMotus and WristMotus

Absolute Contraindications:

- Acute strain (musculotendinous unit) or sprain (non-contractile tissue)
- Soft tissue healing constraints (such as immediately after surgery)
- Severe pain
- Extremely limited range of motion (ROM)
- Severe effusion
- Joint instability

Relative Contraindications:

- Subacute strain or chronic third-degree sprain
- Pain
- Partially limited ROM
- Joint laxity
- Effusion

General Warnings of ArmMotus EMU

- Training is mandatory. Use this document as a guide during training and as a reference after training. The user manual is not a substitute for training.
- Changes or modifications not expressly approved by Changsha Fourier Medical Technology Co., Ltd can affect the safety and effectiveness of the device and will void the system's warranty.

- The device is classified as Class II Medical Equipment. Please ensure that the device is connected to the designated power supply. Connect the device to a suitable power outlet (the power outlet must be grounded).
- Electromagnetic Interference (EMI) from other electronic devices may cause loss of system functionality.
- The device shall only run in the presence of authorized operators.
- Liquids: It is not waterproof; please keep all the parts dry. It is not permitted to place liquids (for example, disinfectants) near or on the device due to safety considerations.
- Consumption of food or beverages: It is not permitted to consume or place food or beverages near or on the device due to safety considerations.
- Unintentional mode selection can cause a loss of functionality and loss of user control. It may result in injury.
- It is necessary to follow the system instructions to calibrate or replace the wire rope immediately, otherwise, the loose or worn wire rope may cause the arm support to drop suddenly, which may cause the user to be injured.
- Electrical shock hazard: Do not remove the cover from any components of the system (Except the arm support and handle), which may cause electric shock. There is a high-voltage power supply inside the device, which can lead to serious injury or death at the touch.
- Do not attempt to use the device if the software malfunction has caused total loss of functionality or if there is a general mechanical failure.
- An operator may only perform maintenance procedures specifically described in this User Manual. Refer servicing to the qualified service personnel who have been trained to repair this equipment.
- Using the device on uneven surfaces could result in loss of balance and possible injury.
- Please keep all the body parts except the affected upper limb away from the working platform of the device. The moving parts on the working platform have a risk of pinching the hand during the operation.
- Accessory: Only use original accessories from the manufacturer.

General Warnings of ArmMotus M2 Pro

- Training is mandatory. Use this document as a guide during training and as a reference after training. The user manual is not a substitute for training.
- Changes or modifications not expressly approved by Changsha Fourier Medical Technology Co., Ltd can affect the safety and effectiveness of the device and will void the system's warranty.
- Electromagnetic Interference (EMI) from other electronic devices may cause loss of system functionality.
- The device shall only run in the presence of authorized operators.

- Liquids: It is not waterproof; please keep all the parts dry. It is not permitted to place liquids (for example, disinfectants) near or on the device due to safety considerations.
- Consumption of food or beverages: It is not permitted to consume or place food or beverages near or on the device due to safety considerations.
- Unintentional mode selection can cause a loss of functionality and loss of user control. It may result in injury.
- Ensure the skin does not contact the arm support directly. It is recommended that users wear long sleeves while using the device.
- Ensure that the device does not put pressure on bony prominences or other bony-like protrusions.
- Electrical shock hazard: Do not remove the cover from any components of the system. An operator may only perform maintenance procedures specifically described in this User Manual. Refer servicing to the qualified service personnel who have trained to repair this equipment.
- Do not attempt to use the device if the software malfunction has caused total loss of functionality or if there is a general mechanical failure.
- Using the device on uneven surfaces could result in loss of balance and possible injury.
- The device is classified as Class II Medical Equipment. Please ensure that the device is connected to the designated power supply. Connect the device to a suitable power outlet (the power outlet must be grounded).
- Please keep all the body parts except the affected upper limb away from the working platform of the device. The moving parts on the working platform have a risk of pinching the hand during the operation.
- Since the size of the device is 850mm (length)* 1000mm (width)* 600mm (height), no interfering items are allowed to be stored above the upper area of this size.
- Accessory: Only use original accessories from the manufacturer.

General Warnings of WristMotus

- Training is mandatory. Use this document as a guide during training and as a reference after training. The user manual is not a substitute for training.
- Changes or modifications not expressly approved by Changsha Fourier Medical Technology Co., Ltd can affect the safety and effectiveness of the device and will void the system's warranty.
- Electromagnetic Interference (EMI) from other electronic devices may cause loss of system functionality.
- The device shall only run in the presence of authorized operators.
- Liquids: It is not waterproof; please keep all the parts dry. It is not permitted to place liquids (for example, disinfectants) near or on the device due to safety considerations.

- Consumption of food or beverages: It is not permitted to consume or place food or beverages near or on the device due to safety considerations.
- Unintentional mode selection can cause a loss of functionality and loss of user control. It may result in injury.
- Ensure that the device does not put pressure on bony prominences or other bony-like protrusions.
- Ensure the skin does not contact the arm support directly. It is recommended that users wear long sleeves while using the device.
- Electrical shock hazard: Do not remove the cover from any components of the system. An operator may only perform maintenance procedures specifically described in this User Manual. Refer servicing to qualified service personnel trained in the repair of this equipment. It is recommended that users wear long sleeves while using the device.
- Do not attempt to use the device if the software malfunction has caused total loss of functionality or if there is a general mechanical failure.
- Using the device on irregular surfaces could result in loss of balance and possible injury.
- The device is classified as CLASS II ME EQUIPMENT. Please ensure that the device is connected to the designated power supply. Connect the device to a suitable power outlet (the power outlet must be grounded).
- Accessory: Only use original accessories from the manufacturer.

General Warnings of AnkleMotus

- Training is mandatory. Use this document as a guide during training and as a reference after training. The user manual is not a substitute for training.
- Changes or modifications not expressly approved by Changsha Fourier Medical Technology Co., Ltd can affect the safety and effectiveness of the equipment and will void the system's warranty.
- Electromagnetic Interference (EMI) from other electronic equipment may cause loss of system functionality.
- The equipment shall only run in the presence of authorized operators.
- The maximum force load of the equipment shall not exceed 750N.
- Liquids: It is not waterproof; please keep all the parts dry. It is not permitted to place liquids (for example, disinfectants) near or on the equipment due to safety considerations.
- Consumption of food or beverages: It is not permitted to consume or place food or beverages near or on the equipment due to safety considerations.
- Unintentional mode selection can cause a loss of functionality and loss of user control. It may result in injury.
- The equipment must be fitted over clothing to prevent skin abrasions. Where necessary, use the extra padding provided with the equipment. Ensure the skin does not contact the pedal directly.

- Ensure that the equipment does not put pressure on bony prominences or other bony-like protrusions.
- Electrical shock hazard: Do not remove the cover from any components of the system. An operator may only perform maintenance procedures specifically described in this User Manual. Refer servicing to qualified service personnel trained in the repair of this equipment. It is recommended that users wear long sleeves while using the equipment.
- Do not attempt to use the equipment if the software malfunction has caused total loss of functionality or if there is a general mechanical failure.
- Using the equipment on irregular surfaces could result in loss of balance and possible injury.
- The equipment is classified as CLASS II ME EQUIPMENT. Please ensure that the equipment is connected to the designated power supply. Connect the equipment to a suitable power outlet (the power outlet must be grounded).
- Accessory: Only use original accessories from the manufacturer.

Contraindications and Precautions of CycleMotus A4 & CycleMotus B2L

Contraindications of CycleMotus

Patients with the following disease are forbidden to use the CycleMotus A4:

- Ligaments, knees or ridge joints rupture
- Post-osteoporosis
- Crippled limbs
- A person with severe spasticity or stiffness in the limbs
- Acute thrombosis
- Pregnant woman
- The clinical vital signs are unstable, such as those with severe pulmonary dysfunction
- Extremities tumors
- Fracture internal fixation is unstable
- Limbs need to be braked
- Mental disorder
- Other patients that doctors think not suitable use this device.

General Warnings of CycleMotus A4

- Read, understand, and practice the precautionary operating instructions. Know the limitations and hazards associated with using the CycleMotus A4. Observe the precautionary and operational decals placed on the unit.
- Take care of position and meaning of the labels on CycleMotus A4.
- Check the integrity of the power supply before use. Avoid the use in case of damage to the case or to the wire.

- To avoid the risk of electric shock, the CycleMotus A4 must only be connected to supply mains with protective earth.
- Avoid the use of CycleMotus A4 to people not educated through the reading of the manual.
- Do not exceed 20 minutes in the first training.
- Do not spill liquids or any substances on the device. Liquid penetration could damage the device.
- In case of suspected malfunctioning do not open or repair the device.
- Do not connect or disconnect the device from plug with wet hands.
- Before you plug the CycleMotus A4 into a main socket please check that the voltage of the device stated on the marking corresponds with the voltage of the power supply.
- Do not press, bend or damage the electric cable.
- Avoid connecting more devices to the same multiple plug (Overheating risk).
- Do not use in the following circumstance: the mixture of the flammable anaesthetic gas and air; the mixture of the flammable anaesthetic gas and oxygen or nitrous oxide.
- Please pull the plug before move the device and try to avoid vibration during moving the device.
- Improper installation, operation or maintenance of CycleMotus A4 may result in malfunctions of this unit or other devices.
- No modification of this equipment is allowed.
- Please turn off the power switch and unplug the power when replace the fuse to avoid electric shock.
- If experiencing any pain, nausea, circulatory weakness, the training should be stopped right away and your doctor should be consulted.
- Please stop the device if there is abnormal circumstance during the process of the training. If the device smokes please press the OFF button and turn it off, disconnect the power cord and contact with the distributor as soon as possible.

General Warnings of CycleMotus B2L

- Read, understand, and practice the precautionary operating instructions. Know the limitations and hazards associated with using the CycleMotus B2L. Observe the precautionary and operational decals placed on the unit.
- Take care of position and content of the labels on CycleMotus B2L.
- Check the integrity of the power supply before use. Avoid the use in case of damage to the case or to the wire.
- To avoid the risk of electric shock, the CycleMotus B2L must only be connected to supply mains with protective earth.
- Avoid the use of CycleMotus B2L to people not educated through the reading of the manual.

- Do not exceed 20 minutes in the first training.
- Do not spill liquids or any substances on the device. Liquid penetration could damage the device.
- In case of suspected malfunctioning do not open or repair the device.
- Do not connect or disconnect the device from plug with wet hands.
- Before you plug the CycleMotus B2L into a main socket please check that the voltage of the device stated on the marking corresponds with the voltage of the power supply.
- Do not press, bend or damage the electric cable.
- Avoid connecting more devices to the same multiple plug (Overheating risk).
- Do not use in the following circumstance: the mixture of the flammable anaesthetic gas and air; the mixture of the flammable anaesthetic gas and oxygen or nitrous oxide.
- Please pull the plug before move the device and try to avoid vibration during moving the device.
- Improper installation, operation or maintenance of CycleMotus B2L may result in malfunctions of this unit or other devices.
- No modification of this equipment is allowed.
- Please turn off the power switch and unplug the power when replace the fuse to avoid electric shock.
- If experiencing any pain, nausea, circulatory weakness, the training should be stopped right away and your doctor should be consulted.
- Please stop the device if there is abnormal circumstance during the process of the training. If the device smokes please press the OFF button and turn it off, disconnect the power cord and contact with the distributor as soon as possible.