

PIO - Walk simulator



Product short description:

The **PIO** is an active walk simulator that allows you to perform complex rehabilitation exercises in a standing position. It is used in:

rehabilitation wards,

sanatorium wards,

home conditions.

Available in child and adult versions.

Product gallery:





Product description:

PIO - Walk simulator

PIO - Walk simulator is a device designed for patients with paresis or inertia of the lower limbs (paraplegia), which is used to perform comprehensive rehabilitation exercises in a vertical position. The patient moving the upper limbs actively moves the lower limbs supports, thus maintaining the vertical position, comprehensively sets the whole body in motion.

The comfort of performing exercises in the PIO walk simulator is ensured:

electronic recorder - informs about the duration of exercise and the number of steps taken, and signals (acoustically) when the exercise time is exceeded,

tabletop that allows you to place on it, such as a book, newspaper, etc.,

ergonomic backrest,

optional additional back / torso supports for adults and children.

Features:

Electronic control panel showing time of exercise (counted down) or number of gait cycles; acoustic alarm goes off if the exercise exceeds present time.

A shelf for portable music and video players, newspapers or books.

Comfortable backrest.

Adjustable grip bars (A).

Gloves for patients with weaker hand muscles to provide better grip (A).

Adjustable footrests (height and depth (7-step) adjustment) (A).

Operating principle of the PIO gait simulator

The patient moves their upper limbs to control the corresponding elements of the mechanical structure, which support the inert lower limbs.

The exerciser maintains a standing position with the developed system of trunk stabilization and comprehensively moves the lower limbs using their hands.

In the upright position, passively and alternately move the patient's hip, knee, and ankle joints while actively moving the upper limbs and shoulder girdle. Avoid using complex jargon and maintain a formal tone. Ensure grammatical correctness and use precise word choice. Adhere strictly to metrics and units.

This will also force the exerciser to twist their trunk.

Benefits of using the PIO gait simulator:

The ability to verticalize the body,

increasing respiratory capacity,

stimulation of the circulatory system,

prevention of urinary tract infections (flushing out deposits and sludge from the bladder),

dynamic loading of the osteoarticular system (among other things, reducing the risk of osteoporosis),

prevention of contractures and joint degeneration and reduction of spasticity,
improving the patient's mental state.

The comfort of performing exercises in the PIO gait simulator is enhanced:

electronic recorder - informing about the duration of exercise and the number of steps taken, and acoustically signaling when the exercise time is exceeded

tabletop - allowing you to place on it, for example, a book, newspaper, etc.

backrest

It is recommended to exercise at least twice a day for about 15÷30 minutes.

Technical data:

	PIO (B)	PIO (A)
Clock [minutes]:	1-59	1-59
Gait cycles counter:	max. 9999	max. 9999
Range of motion of lower limbs [°]:	max. ± 18 from vertical	max. ± 18 from vertical
Height of patient [cm]:	125-145	165-190
Max. weight of patient [kg]:	90	95
Colour of upholstery:	terracotta	black
Dimensions (L x W x H) [mm]:	950 x 664 x 980	1198 x 760 x 1195 (single) 1198 x 760 x 1560 (double)
Power supply [V]:	battery 3V type CR2032	battery 3V type CR2032
Weight [kg]:	41 49 (with lateral and thoracic support)	55 (single backrest) 61 (double backrest)
Range of height adjustment of footrest [mm]:	85	
Range of adjustment of knee holder [mm]:	73	
Range of grip bars adjustment [mm]:	188	
Range of buttock rest adjustment (horizontal) [mm]:	184	
Range of back rest adjustment (horizontal) in ver. with double back rest [mm]:	184	

Product codes:

Reference: -

EAN13: -

UPC: -

Product features:

Product attributes: