

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

The PIO is a device designed for patients with paresis or inertia of the lower limbs (paraplegia). It is used to perform comprehensive rehabilitation exercises in a vertical position. By actively moving the upper limbs, the patient moves the supports of the lower limbs, thus maintaining the vertical position and engaging the entire body in motion.

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

Electronic recorder – informs the user about the duration of the exercise and the number of steps taken, and provides an acoustic signal when the exercise time is exceeded.

Tabletop – allows the placement of items such as a book, newspaper, etc.

Ergonomic backrest.

Optional additional back/torso supports for both adults and children.

Features:

Electronic control panel – displays the exercise time (countd style="border: 1px solid #ccc; text-align: left; height: 25px;"own) or the number of gait cycles; an acoustic alarm sounds if the exercise time exceeds the set duration.

Shelf – for placing portable music and video players, newspapers, or books.

Comfortable backrest.

Adjustable grip bars (A).

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

Adjustable footrests – with height and depth adjustment (7-step) (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 trunk stabilization system and moves the lower limbs using their hands.

While in the upright position, the patient's hip, knee, and ankle joints are passively and alternately moved, while the upper limbs and shoulder girdle are actively engaged. This motion also encourages trunk rotation.

Benefits of using the PIO gait simulator:

The ability to verticalize the body,

Increased respiratory capacity.

Stimulation of the circulatory system.

Prevention of urinary tract infections (by flushing out deposits and sludge from the bladder).

Dynamic loading of the osteoarticular system (which can reduce the risk of osteoporosis).

Prevention of contractures and joint degeneration, as well as reduction of spasticity, and improvement of the patient's mental state.

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. \pm 18 from vertical	max. \pm 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 version with double backrest [mm]:	184	

Product codes:

Reference: -

EAN13: -

UPC: -

Product features:

Product attributes: