

Reduce Risk of Aspiration and Bedsore with the High Back Support Function Very Low-to-the-Floor Bed Reduces Risk of Injury if the User Falls Out of Bed



Resin Board



Wooden Board



Wooden Shelf Board



Patent Pending
High Back Support Function
Patent Pending
Reclining Control
Patent No. 5089786
Control Switch Shape

Function

■ Interlocking High Back Support Function 2 Motors



■ 2 Motors



■ Electric High Back Support Function 3 Motors



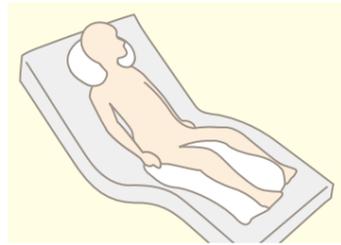
■ 3 Motors



Two Different Types of Rafo can be Selected to Best Fit the Physical Condition of the User and Environment the Bed is Used In.

Rafo Positioning Bed Series

The Japanese Society of Pressure Ulcers defines positioning as utilizing cushions and other devices to position the body of a physically challenged person to safely accomplish tasks that need to be completed. The Rafo Positioning Bed Series incorporates the High Back Support Function and Fitting Function at the knees and back to alleviate shear pressure when lifting the back and provide relaxing comfort. This new, very low-to-the-floor bed that supports posture improves providing treatment at home.



Rafo Basic Bed Series

The Rafo Basic Bed Series is very low-to-the-floor and is only 15cm off the floor. This bed incorporates a wide range of functions that include reducing shear force, back pressure, and abdominal pressure. This very-low-to-the-floor bed is ideal for users who have cognitive impairments or have trouble with tall beds.

Rafo Positioning Bed Series

High Back Support Function
Knee Position Adjuster
Foot Lifting Function

Very Low-to-the-Floor
Vertical Lifting
Back / Knee Interlocking Motion

Rafo Basic Bed Series

Expected Results of Using the Positioning Bed

Reduced Risk of Aspiration

The angle of the neck can be adjusted when the back is lifted and reducing abdominal pressure helps with swallowing. This helps with dysphagia rehabilitation and reduces the risk of aspiration.



Posture to Improve Respiration

Improving posture by spreading the diaphragm and reducing back and abdominal pressure helps with respiration. Curving the upper section of the trunk also reduces force on circulatory organs.



Positioning Bed Supports a Wide Range of Users from Those with Kyphosis to Pregnant Women

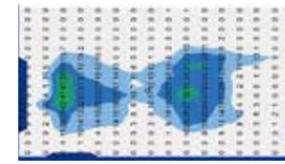
Controlling the angle of the high back support provided to the bending section of the vertebrate in users with kyphosis helps improve their positioning when the back is lifted.

This alleviates shear force when lifting the back and provides comfort to those who have a reduced range of motion in their hips, have trouble lifting their backs, or are pregnant and cannot place pressure on their abdomen.

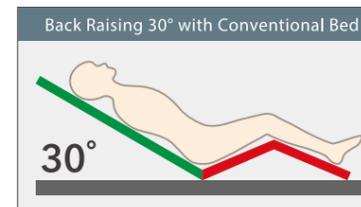
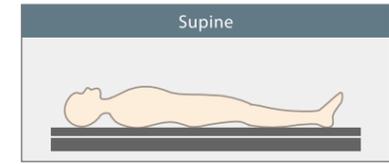
Reduce Risk of Bedsores

Compared to conventional back lifting mechanisms, the High Back Support Function reduces pressure and force on the body. This also helps with positioning for bedsore treatments.

Back Raising 30°



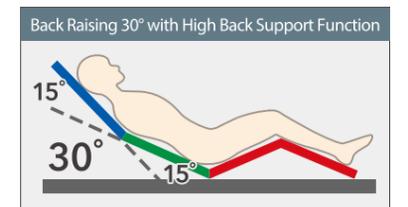
Sacrum Pressure
38mmHg



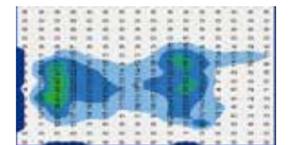
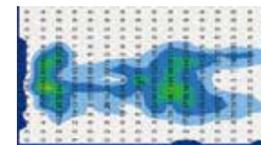
Sacrum Pressure
53mmHg

Sacrum Pressure
35mmHg

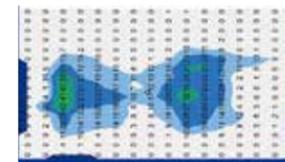
Reduced by 34%



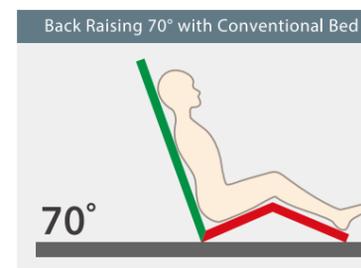
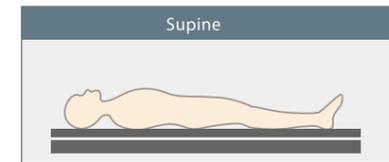
Reduces pressure on the sacrum by 34% compared to back raising 30° with conventional bed



Back Raising 70°



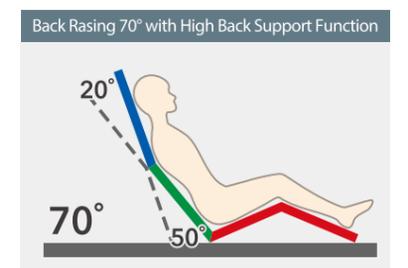
Sacrum Pressure
38mmHg



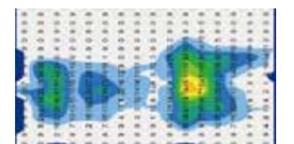
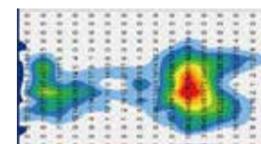
Sacrum Pressure
123mmHg

Sacrum Pressure
75mmHg

Reduced by 39%



Reduces pressure on the sacrum by 39% compared to back raising 70° with conventional bed

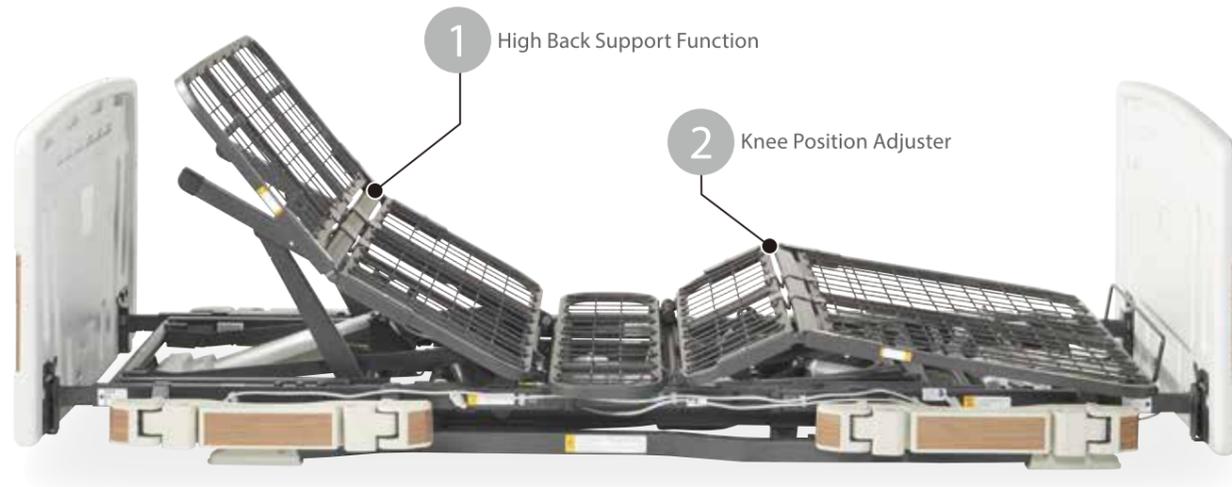


Test Subject: 162cm, 55kg, Female Testing Equipment: FSA(VERG Inc., Canada) Using Thank U Point Mattress
* Example data. Individual results may vary

Features

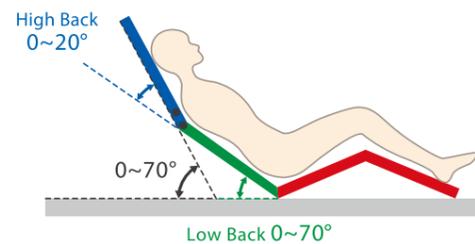
New Back Lifting to Reduce Risk of Aspiration and Alleviate Shear Force

Rafio Positioning Bed Series



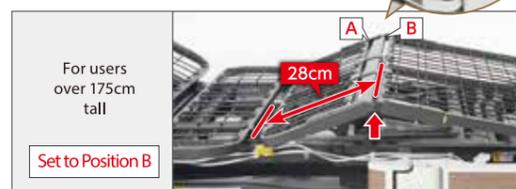
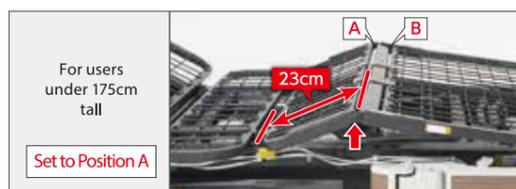
1 High Back Support Function

Separating the High back (head to middle back) and low back gives the user the ability to adjust the angle of each section as the user lifts their back. On the 2 Motors Positioning bed, the high back and back lifting motors operate in tandem. On the 3 Motors Positioning Bed, the high back can be operated individually.



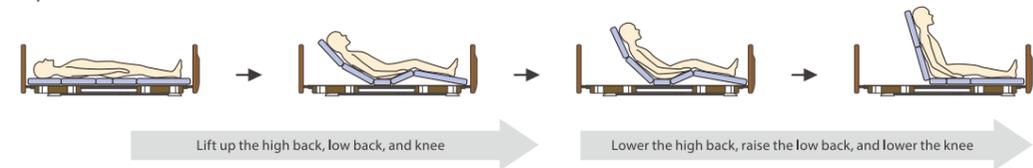
2 Knee position adjuster to reduce slippage during reclining

Easily adjustable just by pulling off and sliding the pin

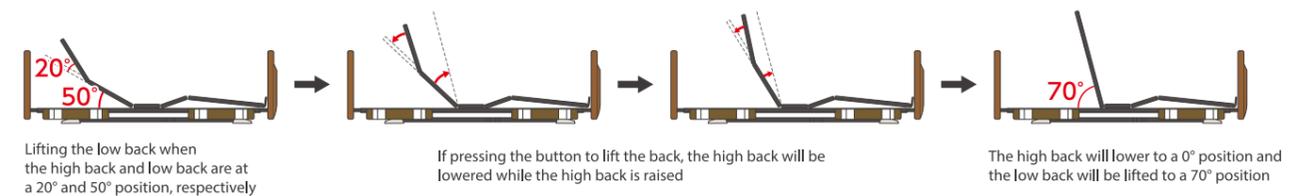


Back / Knee Interlocking Motion Reduces Abdominal Pressure and Shear Force with the Press of a Button

Find your ideal reclining position with the press of a button to control the angles of the low back, high back, and knees. This reduces pressure on the abdomen and alleviates shear force.



The high back and low back sections have a range of motion of 0° to 20° and 0° to 70°, respectively. The angle between the high back and low back is limited to 70° and the abdomen is designed to be at least 90°.

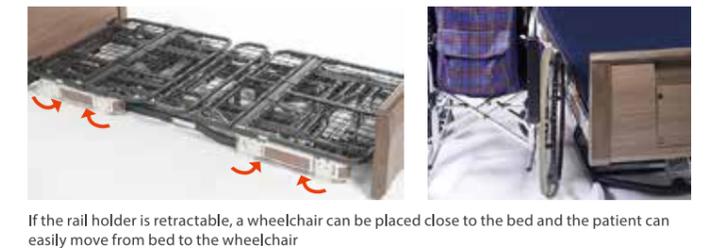


Rafio Positioning Bed's Convenient Functions

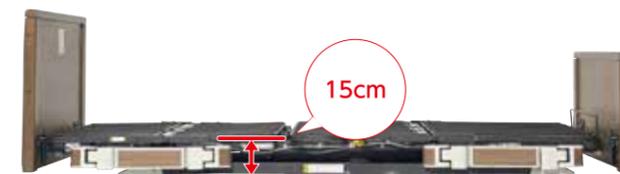
Swollen reduction by foot lifting function



Does not interfere with transferring to a wheelchair



Very Low-to-the-Floor and Only 15cm Off the Ground to Prevent Injury



Vertical Lifting Function to Install in Small Spaces



Easy to operate with a weak grip



Features

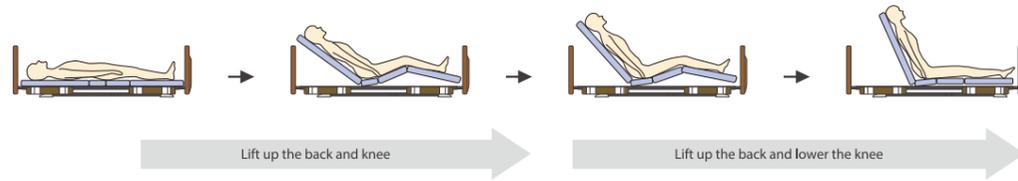
Very Low-to-the-Floor Bed to Prevent Injuries from Falling

Rafio Basic Bed Series



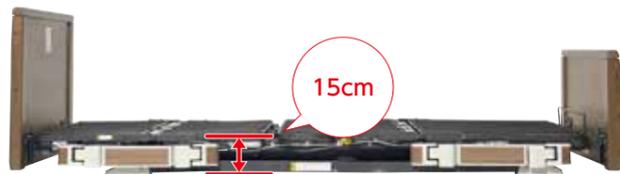
Back / Knee Interlocking Motion Reduces Abdominal Pressure and Shear Force with the Press of a Button

Find your ideal reclining position with the press of a button to control the angles of the back and knees
This reduces pressure on the abdomen and alleviates shear force



Rafio Basic Bed's Convenient Functions

Very Low-to-the-Floor and Only 15cm Off the Ground to Prevent Injury



Vertical Lifting Function to Install in Small Spaces



Does not interfere with transferring to a wheelchair



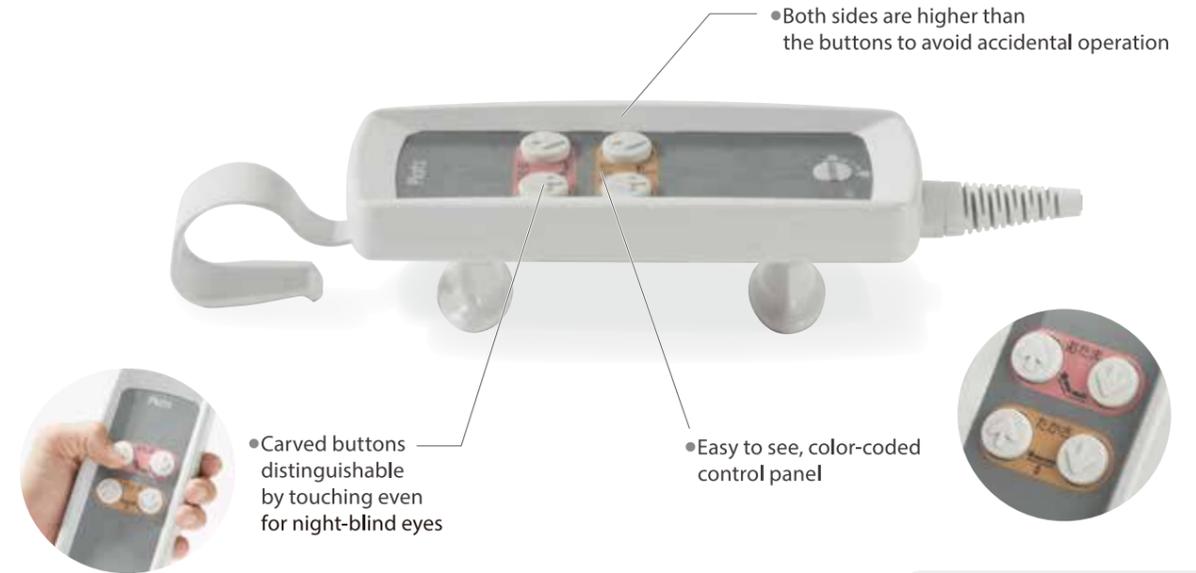
Equipped with Highly-Functional Motor from LINAK in Denmark



Rafio's motor is quiet and water resistant (IPX6) (Only High Back Motor is IPX4)*
*IPX6 is waterproof from powerful jets of water from any direction
IPX4 is water resistant from water splashes from any direction

Universal Design Control Switch

Easy to Hold and Use Universal Design Control Switch



Control Lock Function



Easy to operate with a weak grip



Easy to hang on the side rails



Optional Parts



PC01-5CK
Very Low-to-the-Floor Casters (4pcs)
Material: Nylon, Polyurethane, Steel, ABS
Height in usage: +0.5cm



PC02-8CK
Low-to-the-Floor Casters (4pcs)
Material: Nylon, Polyurethane, Steel, ABS
Height in usage: +8cm



PH04-80
8cm Height Spacer Fixed Legs (4pcs)
Material: ABS
Height in usage: +8cm



PE06-BA19
Chargeable Battery for Rafio Series
Weight: 1.7kg
* Chargeable

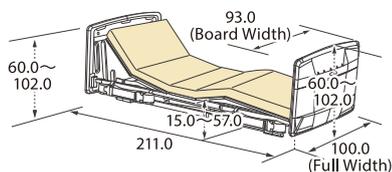
Specifications

Positioning Bed Series

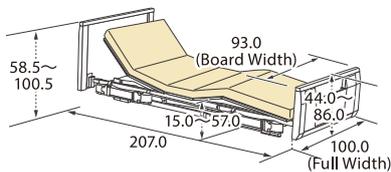
(Unit: cm)

■ 2 Motors, 3 Motors

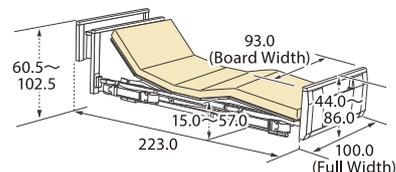
● Resin Board



● Wooden Board



● Wooden Shelf Board



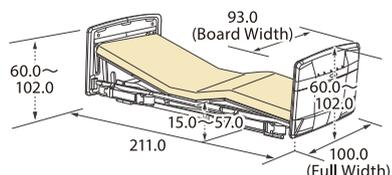
* Space between floor and base frame is 1.0cm

Basic Bed Series

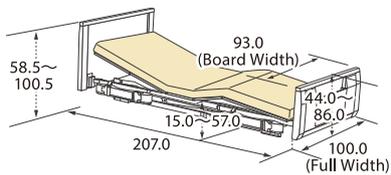
(Unit: cm)

■ 2 Motors, 3 Motors

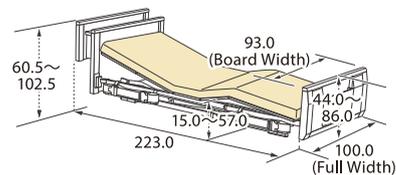
● Resin Board



● Wooden Board



● Wooden Shelf Board



* Space between floor and base frame is 1.0cm

		Positioning Bed Series		Basic Bed Series	
		Interlocking High Back Support Function 2 Motors	Electric High Back Support Function 3 Motors	2 Motors	3 Motors
Suitable Mattress Size		Length 190.0 - 192.0cm, Width 88.0 - 91.0cm			
Weight	Resin Board	94.9kg	96.9kg	89.9kg	91.4kg
	Wooden Board	99.9kg	101.9kg	94.9kg	96.4kg
	Wooden Shelf Board	105.9kg	107.9kg	100.9kg	102.4kg
Packing		7			
Material		Frame: Steel, ABS Head, Foot Board (Resin Board) PE (Wooden Board) Decorative Paneled Fiberboard, Urethane Resin Coated Natural Wood			
Angle Adjustment	High Back Angle	20°		-	
	Back Angle	70°			
	Knee Angle	22°			
Bottom Height		15.0 - 57.0cm			
Voltage		100VAC - 240VAC (50/60Hz)			
Power Consumption		165W			
Motor		Denmark LINAK			
Maximum Load Capacity for User's Weight		138kg / Safe load capacity: 174kg (1700N)			
Country of Manufacture		Vietnam			