



R-TUNDUM

**Dear reader,**

The re-positioning chair Rotundum R1 is designed for research and therapeutic treatment of patients with Benign Paroxysmal Positional Vertigo (BPPV).

It is used to perform the re-positioning manoeuvres to relocate the dislodged calcium crystals (otoconia or otoliths) in the inner ear of the patient. The re-positioning chair can be used in combination with suitable systems for the diagnostic and therapeutic treatment.

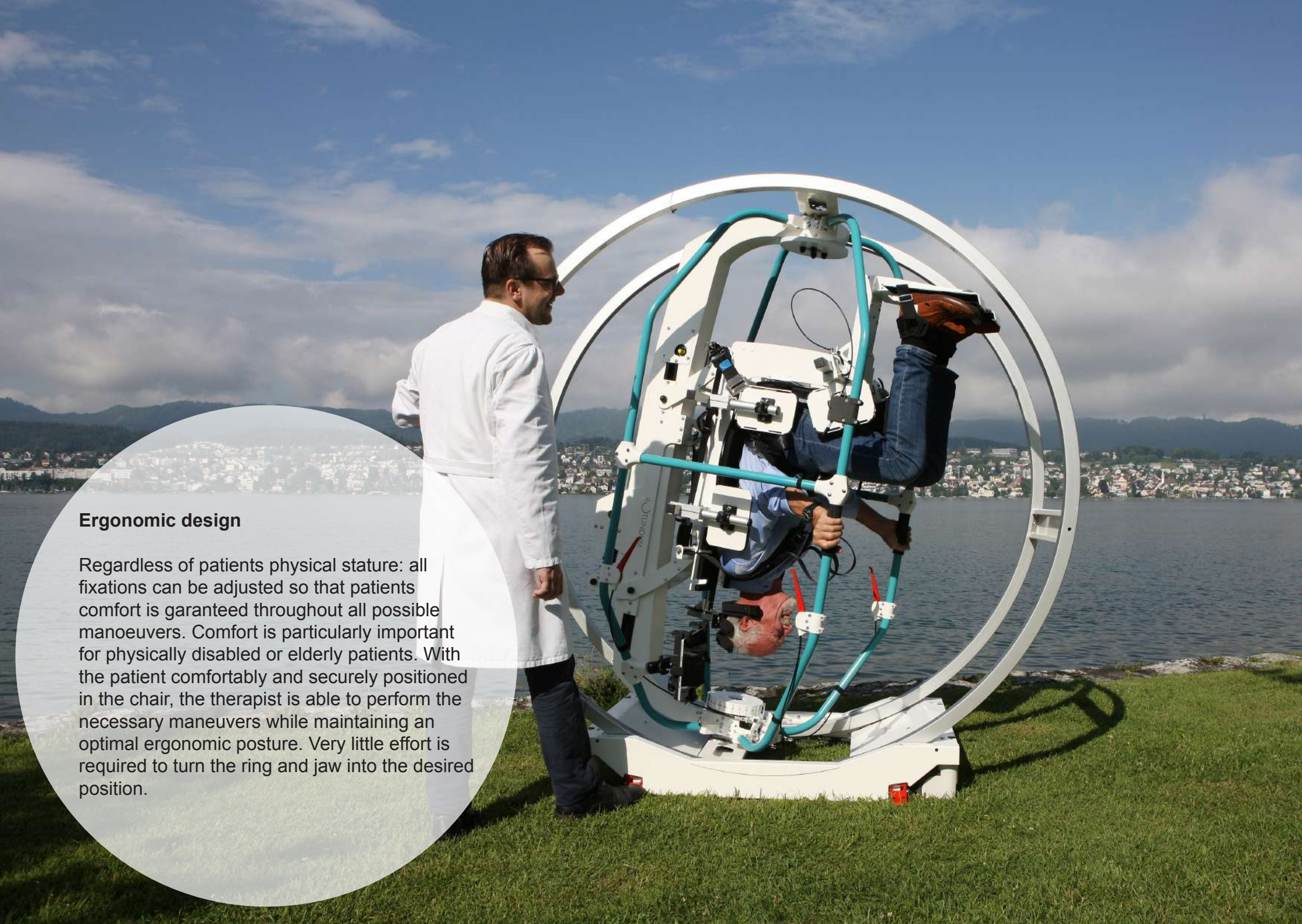
Rotundum R1 is the result of a close collaboration between the University Hospital of Zürich, the Swiss Concussion Center, and the Swiss Engineering Company prolim engineering.





**High accuracy and reliability in the diagnosis and treatment of BPPV**

With Rotundum R1, the patient can be positioned anywhere in 2 axes by 360°. The patient is comfortably secured in the seat and integrated scales and brakes ensure precise and repeatable positioning of the patient.



## Ergonomic design

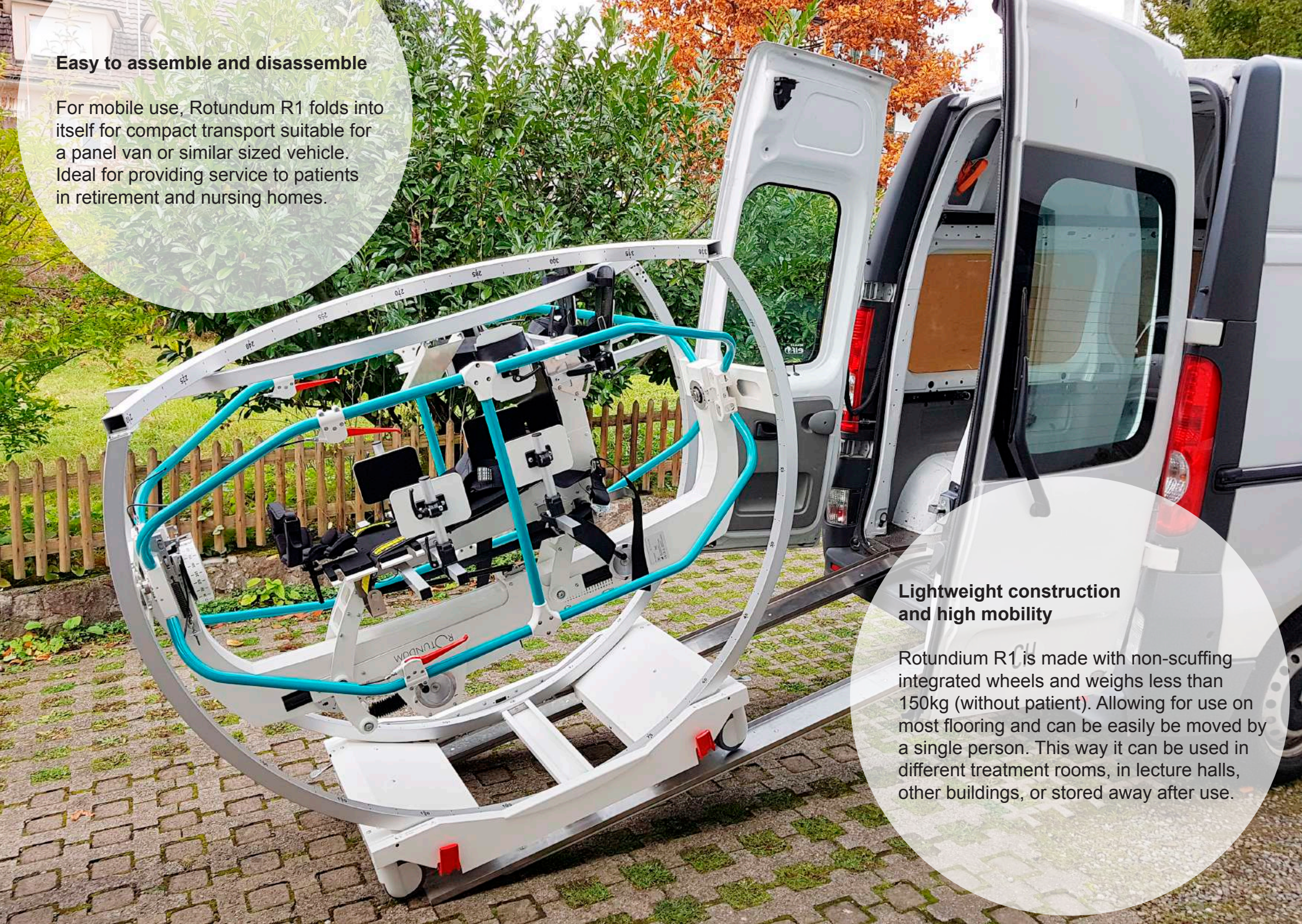
Regardless of patients physical stature: all fixations can be adjusted so that patients comfort is guaranteed throughout all possible manoeuvres. Comfort is particularly important for physically disabled or elderly patients. With the patient comfortably and securely positioned in the chair, the therapist is able to perform the necessary maneuvers while maintaining an optimal ergonomic posture. Very little effort is required to turn the ring and jaw into the desired position.

### Easy to assemble and disassemble

For mobile use, Rotundum R1 folds into itself for compact transport suitable for a panel van or similar sized vehicle. Ideal for providing service to patients in retirement and nursing homes.

### Lightweight construction and high mobility

Rotundum R1 is made with non-scuffing integrated wheels and weighs less than 150kg (without patient). Allowing for use on most flooring and can be easily moved by a single person. This way it can be used in different treatment rooms, in lecture halls, other buildings, or stored away after use.



## Safe

No electrical or pneumatic drives are used in the rotary chair.

The bearings used are precision ball bearings with a life time lubrication.

The Rotundum R1 is CE compliant and has been developed according to current medical device guidelines.



A full-page background image of a Swiss mountain landscape. In the foreground, a red Swiss flag with a white cross flies on a tall black pole. Below the flag, a small wooden building sits on a grassy plateau. In the background, a massive, rugged mountain peak is covered in snow and partially shrouded in clouds under a bright blue sky.

### High-quality

Due to the lightweight construction and choice of materials, the Rotundum R1 is a high quality re-positioning chair that is developed and manufactured in Switzerland.

## Specification

### Patient body height

1.4-2m

### Patient body weight

40-150kg

### Degree of rotation freedom

2-axis by 360° (ring and yaw)

### Transport wheels

Four freely rotatable wheels at the bottom of the chair. The wheels are lockable/un-lockable by pedals.

### Operation

The ring and yaw axes can be positioned at any degree by mechanical means and by the therapist's minimum force. The ring and yaw are labelled with degree marks.

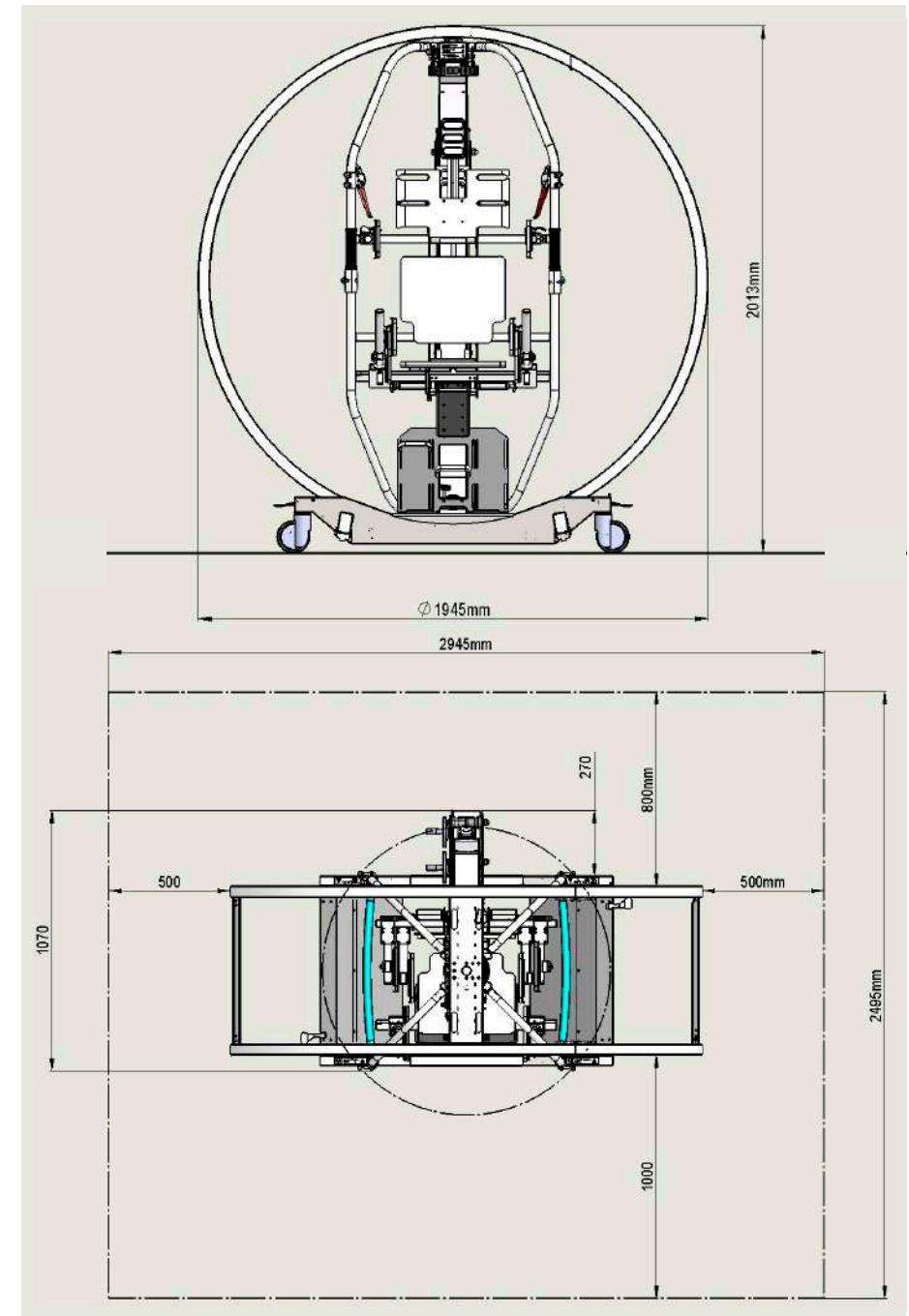
The position of the patient can be adjusted to superimpose his center of mass with the one of the positioning chair. This way the operator needs little force to operate the positioning chair.

### Compliance and safety

The chair is a medical device and meets the following directives and standards:

- Directives 93/42/EEC concerning medical devices
- EN ISO 15223-1:2016
- EN 1041:2008

## Dimensions



**Rotundum R1** is a product of:

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