

Otto Bock®

QUALITY FOR LIFE



Hyperextension Orthosis: Relief for the Spine

| Patient Information |

Hyperextension Orthoses

28R14 and 28R16

What are hyperextension orthoses?

Hyperextension orthoses by Otto Bock support the healing of fractures in the area of the middle and lower thoracic spine and upper lumbar spine. These fractures are mainly caused by compressions and distortions. In Germany, roughly half of these fractures come from road accidents. A quarter of the patients injure themselves riding, skiing or in other sports.

Hyperextension orthoses can also be applied by vertebral body fractures resulting from osteoporosis.

Using a proven 3-point system, the orthosis relieves the upper lumbar spine as well as the middle and lower thoracic spine. This is how hyperextensions orthoses from Otto Bock alleviates your pain and returns you upright. Hyperextension orthoses are classified as stabilizing spinal orthoses.

How do hyperextension orthoses work?

Hyperextension orthoses function in a simple, effective way. Pads on the lumbar region, sternum and pubic bone straighten the spine and bend the vertebral body forwards (see fig. "Effects of the 3-point system"). This special 3-point principle relieves the anterior vertebral body and stabilizes your spine.

Hyperextension orthosis 28R14 allows you to bend to the side or turn your upper body. On hyperextension orthosis 28R16 in frame design, the lateral components restrict these movements.



Who fits you with the hyperextension orthosis?

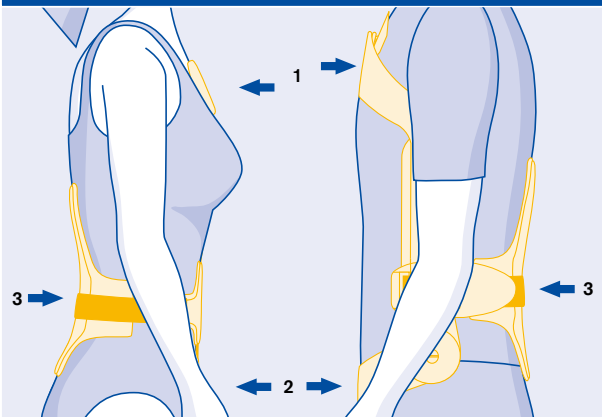
Your doctor sets a suitable therapy plan for you and decides which treatment method is the most effective. Your orthotist will take your exact body measurements in order to adjust the orthosis to your size. The orthotist then uses this data to choose an appropriate size. Once the orthosis has been adjusted while you are lying down, either orthotist or the doctor will check the pressure, position and fit of the pads and ensure that the hyperextension orthosis is fitted properly.

For a successful healing process, you should work closely with your doctor, orthotist and therapist at every stage.

Effects of the 3-point system

28R14

28R16

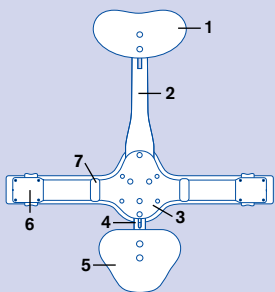
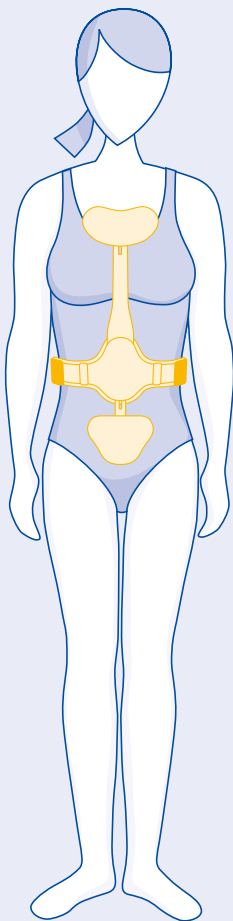


The orthosis provides an upright position by supporting the sternum (1), pubic bone (2) and lumbar spine (3)

Hyperextension Orthosis

28R14

Front view

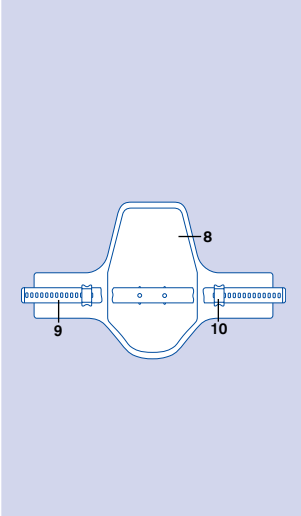
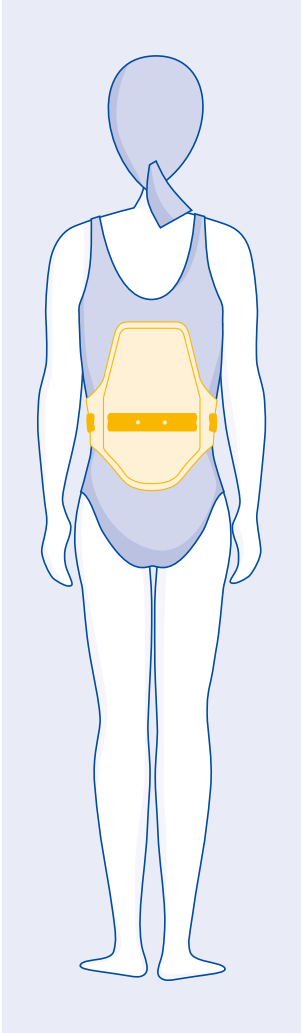


Front view

- 1 Sternal pad
- 2 Thoracic bar
- 3 Padded base plate with two closures
- 4 Ventral Bar
- 5 Symphysis pad
- 6 Closure
- 7 Protective clip



Back view



Back view

- 8 Lumbar pad
- 9 Waistband with lock openings
- 10 Lock positioner

Hyperextension Orthosis

28R14

What are the special features of the hyperextension orthosis 28R14?

The hyperextension orthosis 28R14 by Otto Bock ensures you a high degree of wearing comfort and can be adjusted to your individual needs. The front pads of the 28R14 are fully height adjustable. As a result, all pads can be fixed according to individual height. The pads in the sternum and pubic bone area are made of aluminum core enclosed by foam. This makes the orthosis even more comfortable to wear and allows it to be more easily adjusted to your body.

The hyperextension orthosis is water-resistant, allowing you to shower or bathe freely while wearing the orthosis.

The orthosis can be cleaned with a damp cloth and neutral soap.

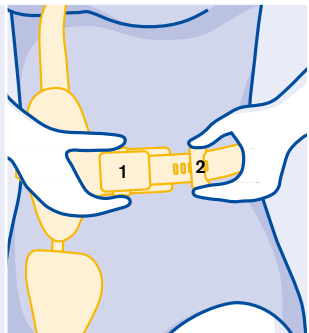
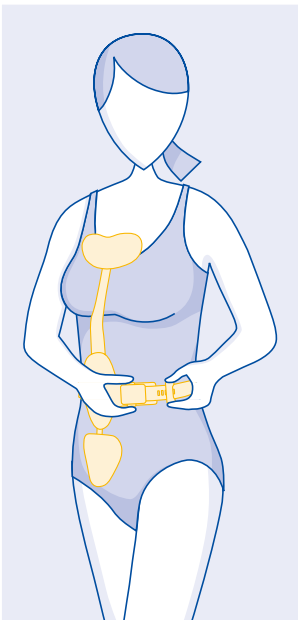




How to put on the hyperextension orthosis 28R14?

If possible, apply the hyperextension orthosis 28R14 while lying down. User-friendly ratchet closures allow the orthosis to be easily applied and removed (see fig. below, marking 1). Lock positioners help you to correctly set the waistband (illustration number 2).

Ensure that the orthosis is always firmly attached to your body. Your doctor or orthotist will explain to you at the first fitting how you should handle your new hyperextension orthosis.



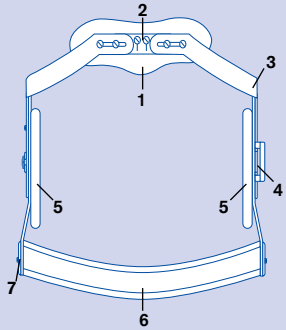
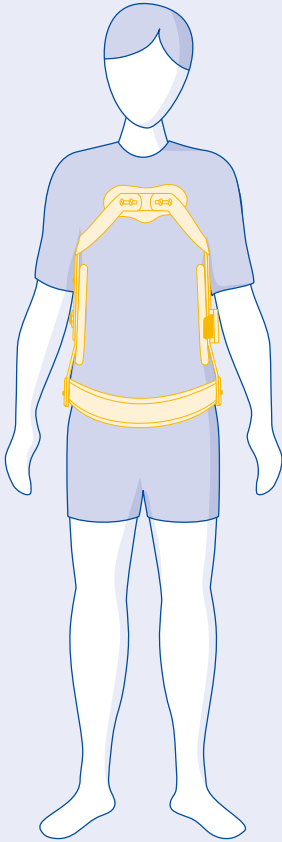
Closure piece of the orthosis

- 1 User-friendly ratchet closure
- 2 Lock positioner on the waistband

Hyperextension Orthosis

28R16

Front view

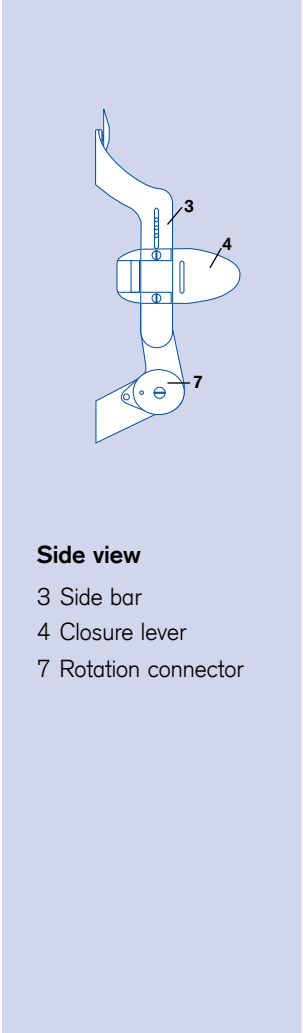
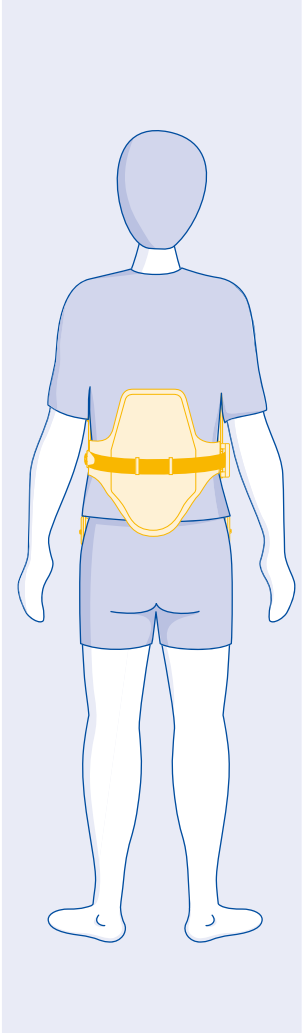


Front view

- 1 Tilttable sternal pad
- 2 Sternal upright
- 3 Side bars
- 4 Closure lever
- 5 Side pads
- 6 Pelvic band
- 7 Rotation connector



Back view/side view



Hyperextension Orthosis

28R16

What are the special features of the hyperextension orthosis 28R16?

The hyperextension orthosis 28R16 can be individually adjusted for different heights and circumferences using the sternal upright and side parts. The pelvic band with spring bearings prevents the orthosis from slipping while sitting. The hook and loop closure pads on the sternum and pubic bone region and on the side parts are made of skin friendly foam, that can be easily cleaned or replaced.

The orthosis is waterproof. So you can take a shower or bath with the orthosis without any difficulty.

The orthosis can be cleaned with a damp cloth and neutral soap.

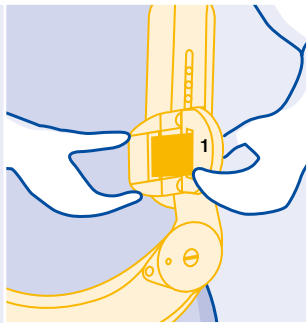
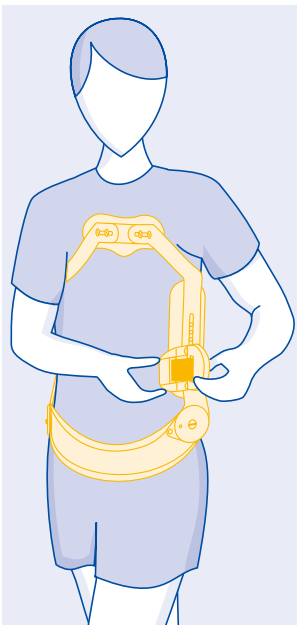




How do you put on the hyperextension orthosis 28R16?

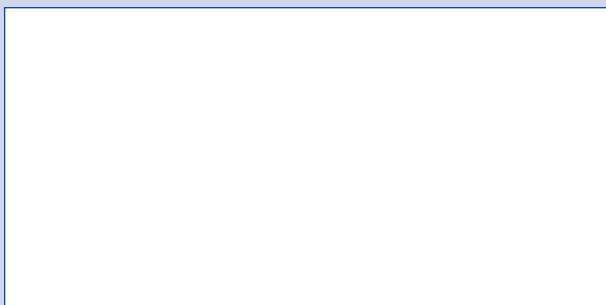
If possible, apply the hyperextension orthosis 28R16 while lying down. Thanks to the easy-to-use closure, the orthosis can be easily applied and removed. To put on the orthosis, fasten the loose grip-handle to the right side of the orthosis and then close the closure on the left side of the orthosis.

Ensure that the orthosis always fits the body snugly. Your doctor or orthotist will explain to you at the first fitting how you should handle your new hyperextension orthosis.



Orthosis closure part

1 Closure lever



We would be glad to help you if you have additional questions or requests.

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Otto Bock HealthCare GmbH – Orthotics
Max-Näder-Straße 15 · 37115 Duderstadt/Germany
Phone +49 5527 848-0 · Fax +49 5527 72330
healthcare@ottobock.de · www.ottobock.com