

*Otto Bock*<sup>®</sup>

QUALITY FOR LIFE



# Omo Neurexa

Product Information





Please note that this product should be worn directly on the skin for maximum effectiveness.  
In this illustration, the Omo Neurexa shoulder orthosis is being worn over clothing for demonstration purposes only.

# Effective pain relief

The Omo Neurexa shoulder orthosis is an effective aid for the rehabilitation of patients suffering from shoulder pain after a stroke or injuries to the central or peripheral nervous system. Omo Neurexa offers effective pain relief by correctly positioning the arm without restricting movement.

## Omo Neurexa



## Indications and background

Omo Neurexa was developed and tested by Otto Bock in collaboration with Prof. Dr. med. Stefan Hesse, Berlin. The product was specifically engineered for patients suffering from shoulder pain and dysfunction (including subluxation) due to neurological conditions such as:

- Hemiplegia
- Shoulder pain due to paralysis of musculature in the shoulder area
- Plexus brachialis injuries
- Peripheral nerve damage in the area of the cervical spine and shoulder

Shoulder pain and dysfunction frequently occurs among patients suffering from hemiplegia. In case of flaccid paralysis, the humeral head is often poorly positioned (subluxation); this can result in pain, reflexive muscle dysfunction, and secondary joint damage.

# Function and effects

The load-relieving Omo Neurexa orthosis supports the shoulder and provides pain relief for patients who have suffered a stroke or injuries to the central or peripheral nervous system. Omo Neurexa consists of two parts – a shoulder cuff and a forearm cuff. The cuffs are connected by two straps. Omo Neurexa keeps the humeral head of the upper arm precisely inside the shoulder joint socket. This is a prerequisite for the physiological, pain-free interplay of the three true and two false joints of the pectoral girdle during movement. In addition, Omo Neurexa supports the arm in an extended position with a slight external rotation, which counteracts the development of the typical spastic posture pattern consisting of flexion with internal rotation. In addition to pain relief, Omo Neurexa improves the body posture and gait pattern through enhanced sensomotoric control and support of the shoulder joint and arm.

## Omo Neurexa supports soft tissues

Re-establishing the correct physiological position of the shoulder joint prevents excessive strain on the capsules, ligaments, tendons, nerves, and muscles, secondary osteoarthritis, and therefore pain. Functional motor rehabilitation in accordance with the diagnosis can commence as soon as pain is eliminated. Repositioning the humerus head, pain relief, and positioning the upper extremity to counteract spasticity facilitates the free functional treatment and activity of the pectoral girdle and arm. A muscle stimulation pad that can be attached to the inside of the shoulder orthosis by means of a hook-and-loop strap is available for optional additional stimulation of weakened muscles such as the M. rhomboideus, the lower section of the M. trapezius, or the upper section of the M. latissimus dorsi.

## Position of the humerus head



Without



With Omo Neurexa



# Design and adaptation

Omo Neurexa was engineered to fit the painful subluxated shoulder. It consists of PCM, a temperature-regulating material for ultimate wearer comfort. As a result, the orthosis can be worn all day. Thanks to the innovative design, it does not have to be completely removed for many therapeutic applications.

Omo Neurexa needs to be fitted by a therapist/CPO. The patient will require assistance for correct application. Relatives or caregivers should receive detailed instructions regarding proper use.



# Application and advantages

Omo Neurexa is recommended for use at an early stage in rehabilitation, along with functional and specific muscle training as well as correct use of the arm. However, Omo Neurexa is also extremely effective when used later on in the rehabilitation process.

## Advantages at a glance

- Supports and centres the shoulder joint, corrects subluxation and internal rotation, permits free use of the arm
- Stabilises the shoulder joint
- Impedes pathological movement patterns
- Reduces congestion
- Temperature-regulating material
- Easy to use
- Individual adjustment possibilities
- Optional individually adjustable muscle stimulation pad

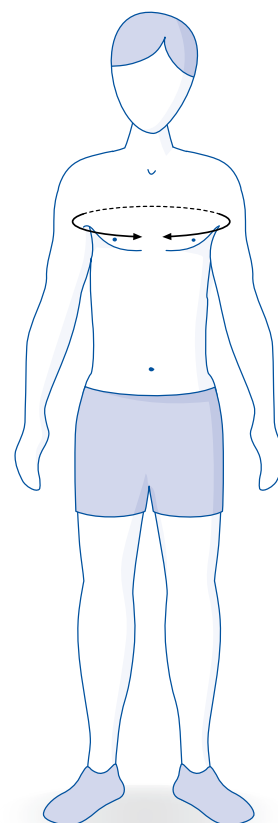




## Sizes

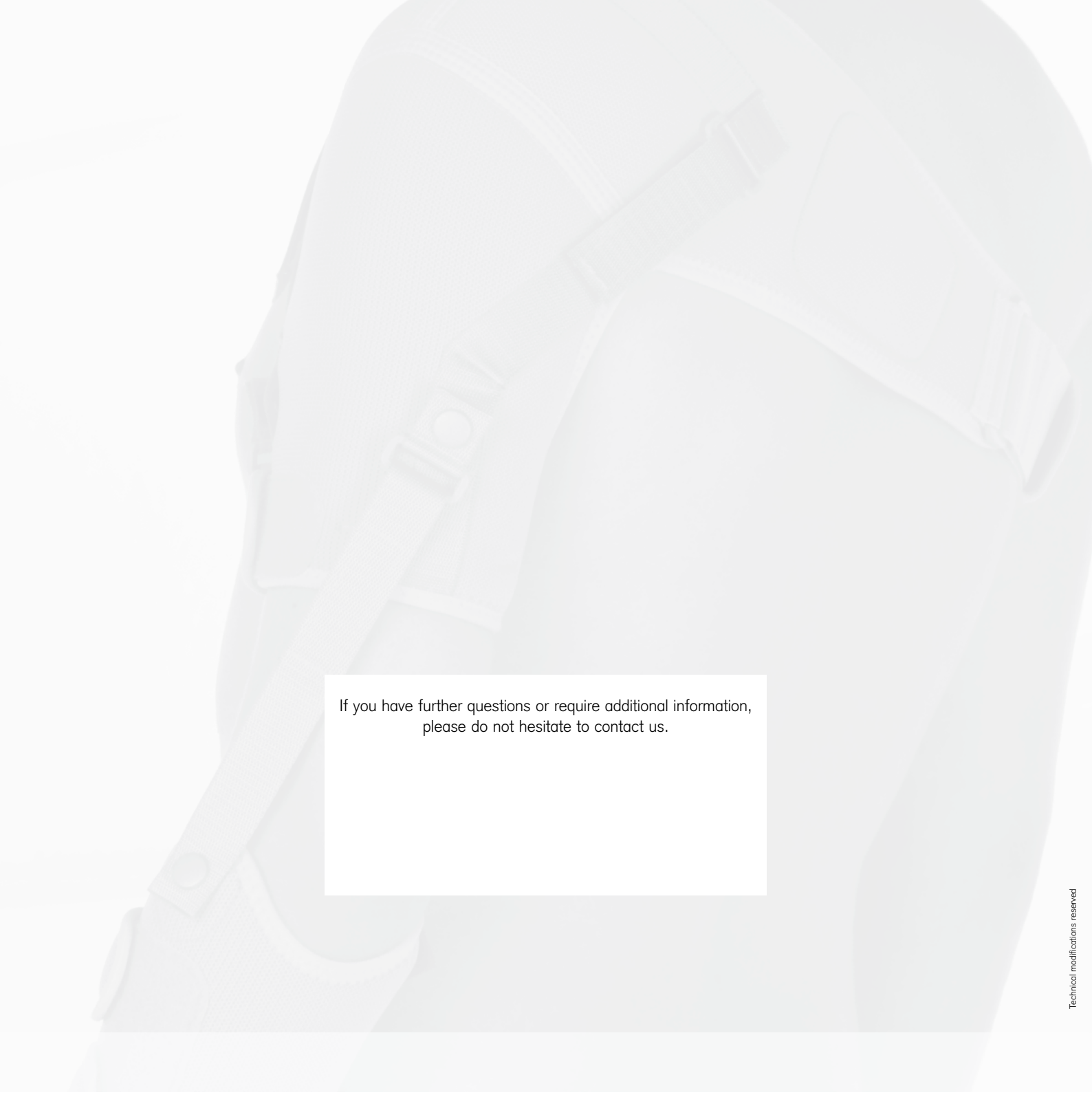
Selecting the correct size is extremely important for optimum results. The product is available in five sizes from XS to XL, right and left.

**Measure the circumference above the bust, as indicated in the illustration.**



Art. no.	Size	Circumference	
		cm	Inch
5065	XS	79 – 86	31 – 34
	S	87 – 94	34 – 37
	M	95 – 102	37 – 40
	L	103 – 110	40 – 43
	XL	111 – 118	43 – 47





If you have further questions or require additional information,  
please do not hesitate to contact us.

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