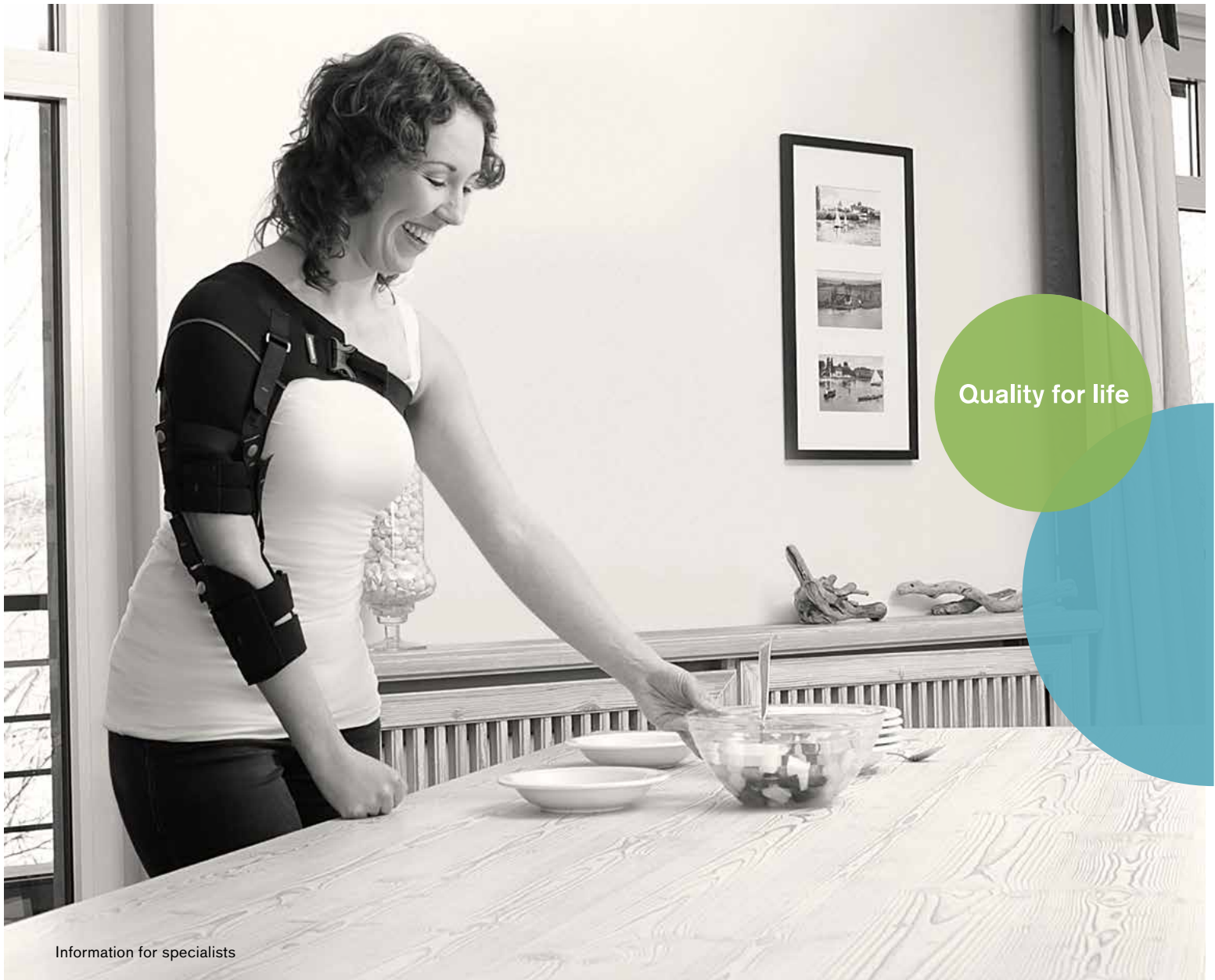


**ottobock.**

# Omo Neurexa<sup>plus</sup>

Promote movement. Create independence.



Quality for life

# Omo Neurexa<sup>plus</sup>

## Facilitate rehabilitation

The Omo Neurexa Plus shoulder orthosis is a medical device used to aid the rehabilitation of patients suffering from shoulder pain and dysfunction after stroke or injury to the central or peripheral nervous system. The proven functionality of the well-known Omo Neurexa orthosis has been integrated into the newly developed Omo Neurexa Plus. In addition, the orthosis can now be applied by patients themselves with one hand.





*“The arm is taken care of so the patient can better concentrate on gait training.”*

Prof. Dr. med. Stefan Hesse  
Head of the Department of Neurology at Medical Park Berlin  
Humboldtmühle<sup>1</sup>

### Indications

Shoulder pain and dysfunction (including subluxation) after stroke, hemiplegia, spinal disc herniation in the cervical spine, injuries of the brachial plexus, and peripheral nerve damage.

The Omo Neurexa Plus facilitates active rehabilitation by correctly positioning the arm and promoting movement.

Patients with hemiplegia frequently suffer from shoulder pain and dysfunction. In the case of flaccid paralysis, the humeral head is often poorly positioned (subluxation). This can result in pain, reflexive muscle dysfunction, and secondary joint damage. The Omo Neurexa was the first product in our stroke therapy range, the Neurexa line.

<sup>1</sup>Clinical and Gait Analysis Data on the Omo Neurexa Shoulder Orthosis. Orthopädie Technik, issue 3/2009.

# Function and mode of action

For patients who suffered a stroke or injury to the central or peripheral nervous system, the load-relieving Omo Neurexa Plus supports the shoulder joint and arm, improves body posture and gait pattern through enhanced sensomotoric control, and relieves pain.

The Omo Neurexa Plus consists of two parts – a shoulder cuff and a forearm cuff. The cuffs are connected by two straps. The Omo Neurexa Plus positions the humeral head precisely inside the socket of the shoulder joint. This is a prerequisite for the physiological, pain-free interplay of the three true and two false joints of the pectoral girdle during movement.

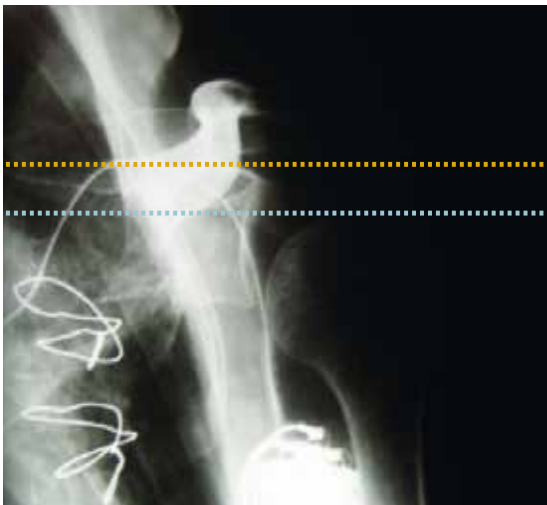
The Omo Neurexa Plus also extends and slightly externally rotates the arm, which counteracts the development of spastic posture pattern consisting of flexion with internal rotation.

## Omo Neurexa Plus supports soft tissues

Reestablishing the correct physiological position of the shoulder joint prevents hyperextension of the capsules, ligaments, tendons, and nerves as well as excessive muscular strain, secondary osteoarthritis, and the resulting pain this causes. Once pain is eliminated, functional motor rehabilitation in accordance with the patient's diagnosis can begin.

A repositioning of the humeral head, pain relief, and the positioning the upper extremity to counteract spasticity facilitates the free functional treatment and activity of the pectoral girdle and arm (see x-ray images). A muscle stimulation pad can easily attach to the inside of the shoulder orthosis by a hook-and-loop strap. This is available for 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 humeral head



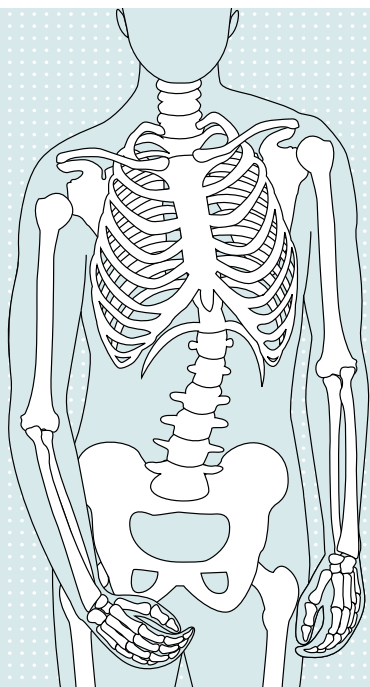
### Without Omo Neurexa Plus

Humeral head dislocated, see upper edge of blue line



### With Omo Neurexa Plus

Humeral head repositioned in the joint, see upper edge of yellow line



• Posture without Omo Neurexa Plus

### Features and benefits

- Positively influences the proprioceptors, which can positively affect the sensorimotor system
- The orthosis can be worn during rehabilitation and training
- Silicone band and special textile structure support the positioning of the orthosis and prevent slipping
- Ease of use with different colored buttons
- Soft TriTech material ensures excellent wearer comfort
- Soft edges prevent chafing and sores
- Silicone muscle stimulation pad
- Machine wash at 104° F

#### Supports and centers the shoulder joint

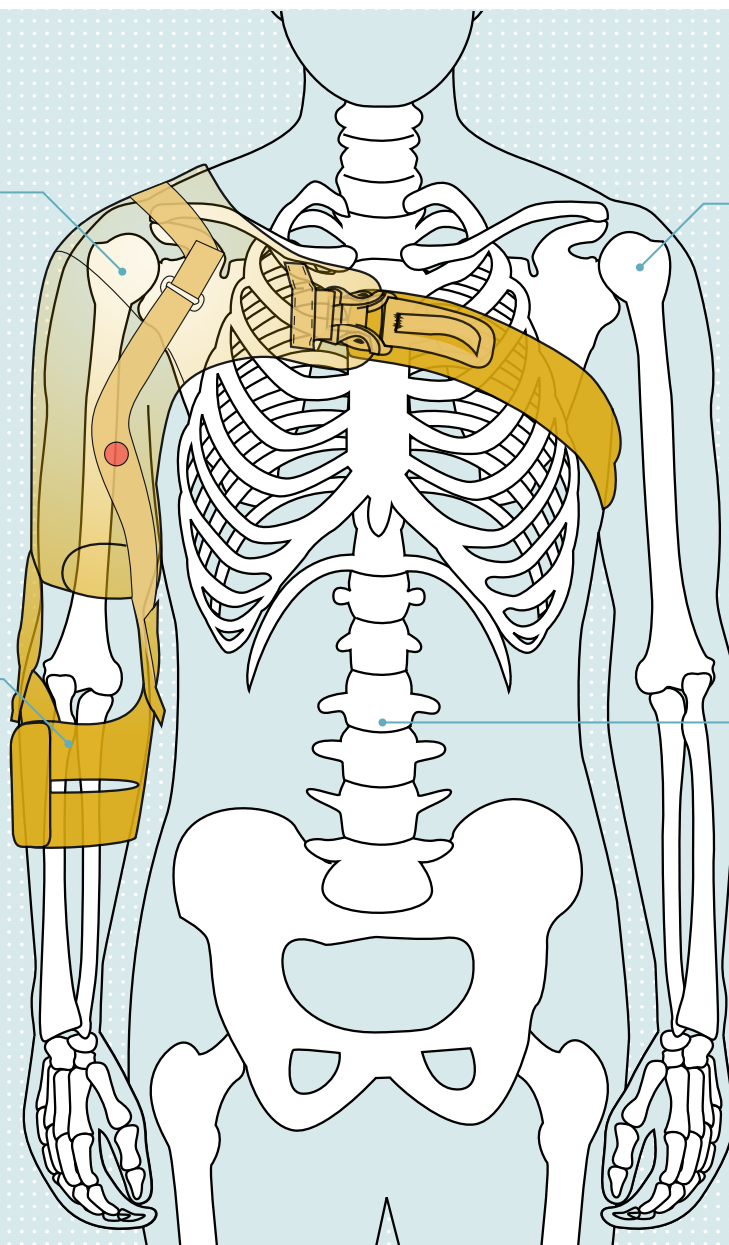
Corrects subluxation and internal rotation while arm remains freely movable

#### Facilitates active rehabilitation

The user can focus on walking rather than worrying about the affected arm

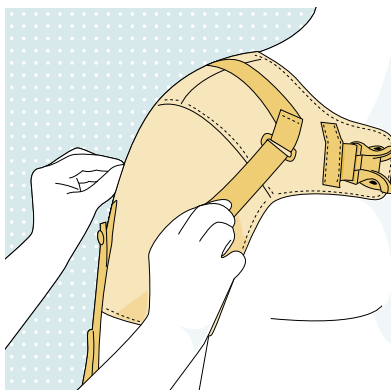
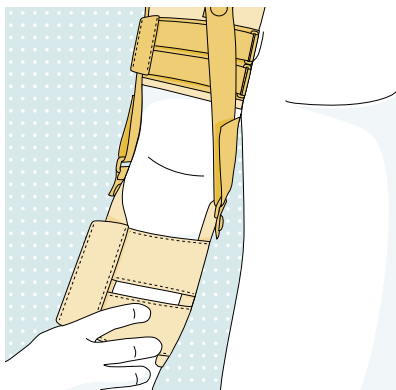
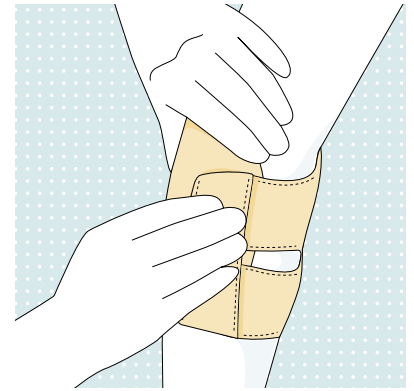
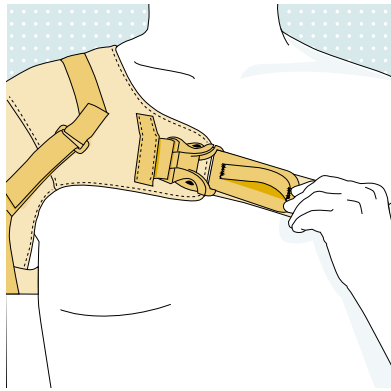
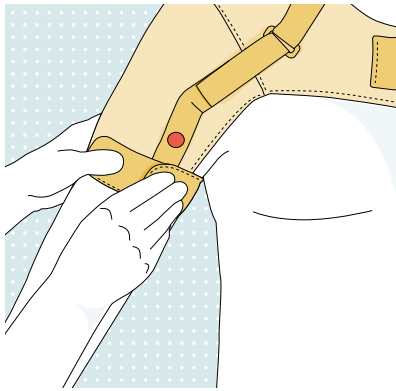
#### Inhibits pathological movement patterns

#### Improves body posture and gait pattern



• Posture with Omo Neurexa Plus

# Application and use



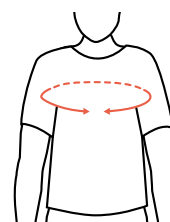
The Omo Neurexa Plus can be used throughout rehabilitation. The orthosis, along with muscle training and physiological movement of the arm, are recommended at an early stage of rehabilitation.

The Omo Neurexa Plus needs to be fitted to the patient by a therapist or orthotist. The initial donning of the orthosis should be performed by the therapist or orthotist. Depending on the severity of the disability, the patient may be able to apply the orthosis themselves. Prior to doing so, the patient, as well as their carers and relatives, must be provided with detailed instructions regarding the proper use of the orthosis.

## Sizes

Proper sizing and application are key in achieving optimal functionality. The product is available in six sizes (XXS–XL) for the right and left sides.

Article number	Size	Circumference (cm)
5065N	XXS	73–78
	XS	79–86
	S	87–94
	M	95–102
	L	103–110
	XL	111–118



► Measure the circumference above the chest, as indicated in the illustration.



**Please don't hesitate to contact us if you have any further questions or you would like more information.**

