

# Neurexa Line

Actively promoting movement





# Neurexa Line

Neurexa Line is a product line intended for the treatment of stroke patients. These products are developed in close collaboration with professionals, physicians and therapists to ensure both optimal function and wearing comfort.



Neurexa Line is designed to be a functional tool in the rehabilitation process – all products facilitate active movement. The main focus in all stroke rehabilitation is to reintegrate affected people into their social and professional environments.

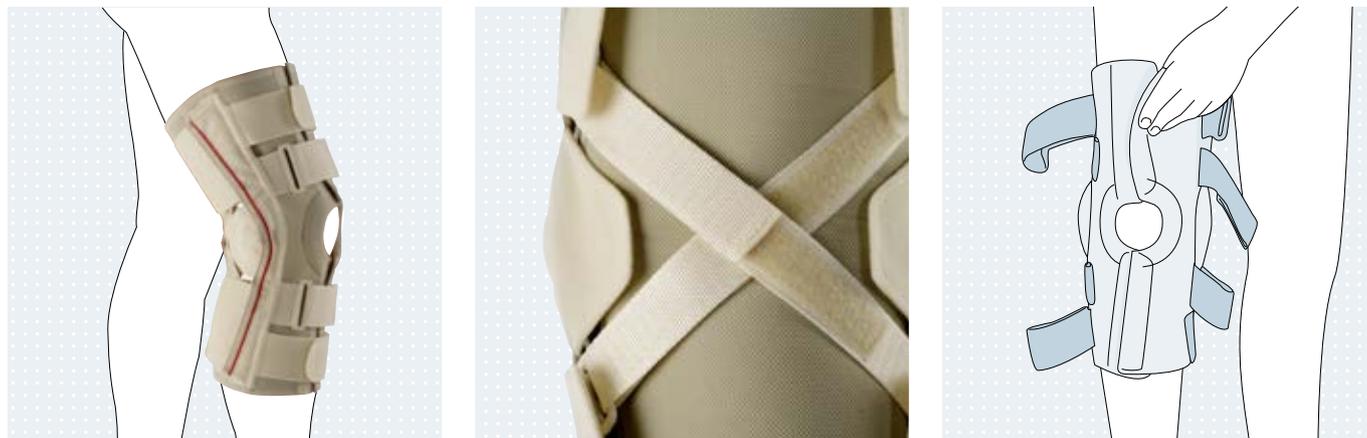
**General information about stroke**

A stroke can be defined as a lack of blood supply to the brain resulting in necrosis of neurons with consecutive loss of brain function. Typically a stroke is only classified as such when sensory or motor deficits persist longer than 24 hours.

Three months after the acute phase, one quarter of all patients remain seated in a wheelchair, two-thirds have a very slow and unstable gait and one third suffer from a total loss of arm function.

# Genu Neurexa

Art.-No. 8165



## Indications

Paresis of leg muscles resulting in knee hyperextension for example after stroke, lumbar disc herniation, peripheral nerve damage, etc.

## Effects

Genu Neurexa stabilises the knee; at the same time the patella is stabilised, hyperextension is prevented and collateral instability is reduced. All components together; lockable bilateral aluminum splints and inelastic crossed straps in the knee fold give, together with the large surface coverage, a mechanical stabilisation. A good effect on the proprioceptors is also obtained, which affect the sensorimotor system.

The user obtains good knee control at movement training; such as gait training, motion training from chair to bed, chair to toilet, etc. Genu Neurexa also provides the user with pain relief as it positions the patella and prevents involuntary movements in the knee; hyperextension and lateral movement.

## Features

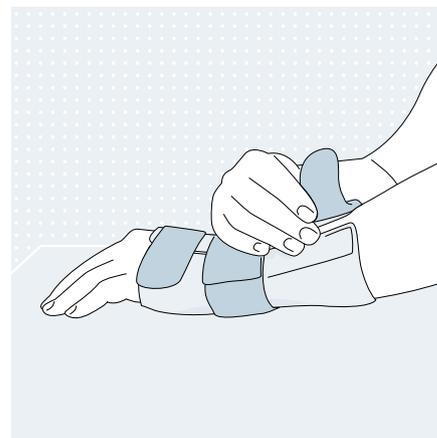
- A classical 3-point principal support created with inelastic straps and lockable splints
- The hinges permit restriction of extension and flexion in 10-15° intervals
- Full circumferential straps
- Made of temperature-regulating OUTLAST® material that counteracts heat development and extends the product's daily duration of use
- High wearer comfort due to material selection and strapping arrangement
- Wrap around model with the ability to fully open allowing easy application for the therapist, relative and user
- Machine washing at 40 °C (104 °F) is recommended

	Size	Circumference A (cm)	Circumference B (cm)
	XS	32 – 35	38 – 42
	S	35 – 38	42 – 46
	M	38 – 41	46 – 50
	L	41 – 44	50 – 54
	XL	44 – 48	54 – 58

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# Manu Neurexa

Art.-No. 4165



## Indications

Paresis of the forearm muscles resulting in weakness of the wrist for example after stroke, cervical disk herniation, cervical plexus injury, peripheral nerve damage. Intended for flaccid paralysis or no more than mild spasticity in the wrist/hand.

## Effects

Manu Neurexa supports the wrist in a functional/resting position. The orthosis reduces pain and due to its moderate length it facilitates movement training in the wrist.

The wrist is protected against impacts as the person transfers to a wheelchair, between a wheelchair, bed or toilet, or at gait training. Awareness of the affected arm and hand can improve by use of the wrist orthosis.

## Features

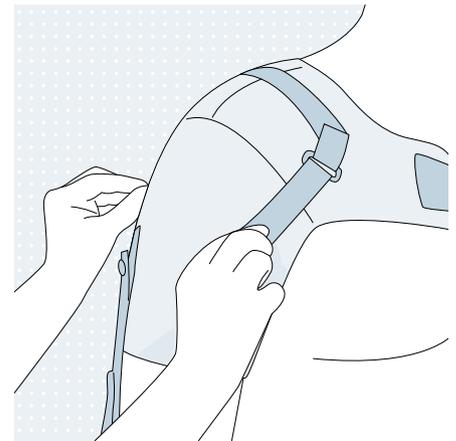
- The volar plastic splint is pre-shaped in an anatomically correct position and is also individually adaptable
- Two coil splints on the dorsal side provide stabilisation and also stimulate the wrists extension muscles
- Made of temperature-regulating OUTLAST® material that counteracts heat development and extends the product's daily duration of use
- Easy application due to the ability to fully open
- Large Velcro fastenings facilitates application and removal of the orthoses
- Machine washing at 40 °C (104 °F) is recommended

	Side	Size	Wrist circumference (cm)
	l/r	XS – S	14 – 16
	l/r	M – L	16 – 18,5
	l/r	XL – XXL	18,5 – 22

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# Omo Neurexa

Art.-No. 5065



## Indication

Shoulder pain and dysfunction (including subluxation) for example after stroke, cervical disc herniation, peripheral nerve damage, etc.

## Effects

Omo Neurexa supports the shoulder by centering the humeral head of the upper arm, which is kept precisely inside the shoulder joint socket. The user's body posture and balance improve through enhanced sensorimotor control and support of the shoulder joint and arm. The user is able to concentrate more on walking instead of worrying about the affected area, hence the gait pattern is improved.

The arm is also slightly outward rotated and extended in the orthoses which counteracts the development of the typical spastic pattern consisting of flexion with internal rotation. Stimulation of specific weakened muscles is possible by the use of an additional silicon pad. Pain is often reduced and already developed subluxations can decline.

The orthosis influences the proprioceptors which positively affect the sensorimotor system.

## Features

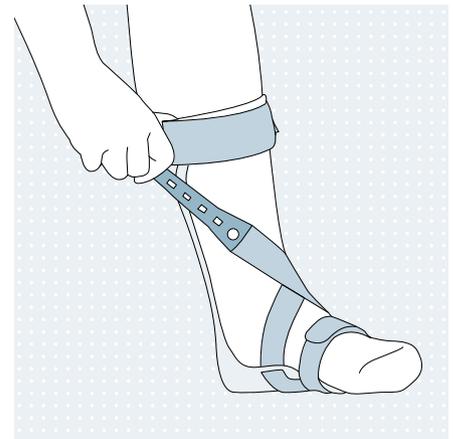
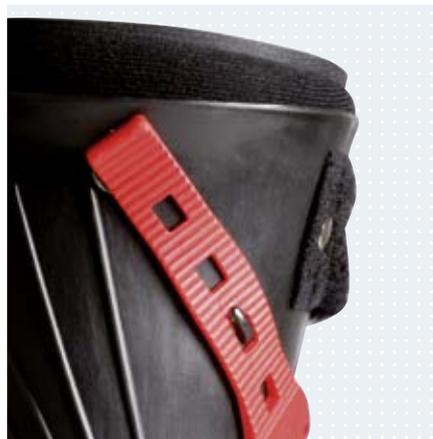
- The large surface coverage influences the proprioceptors which has a positive effect on the sensorimotor system
- No requirement to remove during movement training on the shoulder and arm
- Made of temperature-regulating OUTLAST® material that counteracts heat development and extends the product's daily duration of use
- High user compliance due to the soft and comfortable material
- Soft edges means no chafe problems
- Different colour press buttons to simplify application
- Optional muscle stimulation pad in silicon
- Machine washing at 40 °C (104 °F) is recommended

	Side	Size	Chest circumference (cm)
	l/r	XS	79 – 86
	l/r	S	87 – 94
	l/r	M	95 – 102
	l/r	L	103 – 110
	l/r	XL	111 – 118

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# Malleo Neurexa<sup>pro</sup>

Art.-No. 28U50



## Indication

The orthosis can be used for dorsiflexor weakness and with acute supination in the foot due to emerging spasticity, for example following a stroke or traumatic brain injury, for multiple sclerosis, neuromuscular atrophy or isolated peroneal paralysis.

## Effects and features

The Malleo Neurexa<sup>pro</sup> is a thermoplastic lower leg orthosis for the treatment of patients with an acute supination position of the foot and/or with beginning or emerging spasticity. The special guidance of the closure straps with the combination of the elastic pronation strap ensures effective correction, even with acute hypertonicity of the lower leg musculature. The orthosis design permits wearing it as a daytime or night time orthosis. The elastic strap can yield to the pressure when spasticity occurs and, after relaxation, resume holding the foot in the neutral position. Another special feature is that the orthosis can be worn without shoes (using an attached anti slippery pad). However, the orthosis should not be worn barefoot.

	Side	Size
	l/r	35-37
	l/r	37-39
	l/r	39-41
	l/r	41-44

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