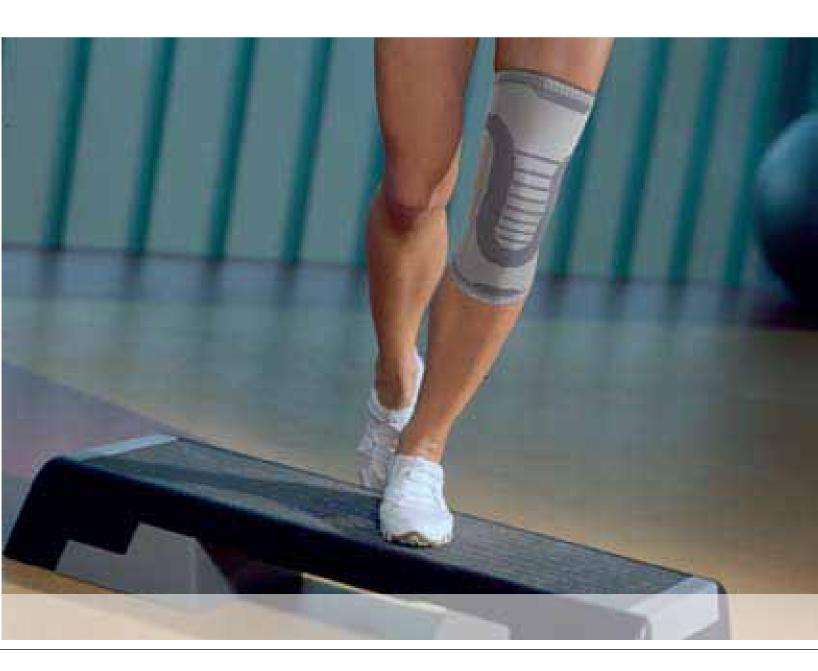


QUALITY FOR LIFE



Soft Orthoses Handbook

Braces & Supports



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OUR COMPANY

Fit, Function, Comfort, Quality. The four cornerstones on which all Otto Bock products are created. In 1919, the company's founder, Otto Bock, pioneered the use of mass production in prosthetics and orthotics. Our high quality products revolutionized the industry and set a standard that is still being imitated, but not duplicated, today.

Our products consist of a wide range of soft orthosis, made from different types of high tech materials like PCM,™ SpaceTex®and our unique Turbocast™ moldable material. Many of our products carry the Oeko-Tex™ certificate, which means the entire process from thread to complete product is environmentally friendly.

We designed this handbook to give you an overview of our soft orthoses product offering, tell you about the high tech materials used in these products, and provide you with helpful information on common conditions and choice of product.

Warranty

Otto Bock warrants its products to be free from defects in material and workmanship. Subject to normal wear and tear and when used in accordance with relevant instructions, Otto Bock will replace or credit to the original purchaser the item's cost (at Otto Bock's discretion) for a period of 90 days from the original date of purchase.

BENEFITS OF BRACING

Orthosis: "Ortho" is the Greek word for "straighten". An Orthosis is often called a brace or support.

Whether you lead a sedentary life or a very active one, injuries and joint alignment problems can limit your ability to participate in activities. A properly prescribed and fitted orthosis can considerably improve function.

Benefits of an Orthosis

Support – Controls excess movement. Limits the ability of the affected body part to get into an unstable and vulnerable position. This helps prevent injury and re-injury.

Warmth – Heat helps the muscles to relax, reduces stiffness, soreness and increases circulation, making it easier for oxygen to be absorbed.

Compression - Reduces swelling.

Protection – As muscles tire and reflexes slow from fatigue, stresses that were normally absorbed by muscles are transferred to the joints. The additional support of a brace can help reduce this stress.

Proprioception – Increases awareness of the injured body part.

Psychological effect - Feeling of security.

Exercise is an integral part of the rehabilitation process to maintain, regain and increase muscle strength and joint health. Consult your doctor/therapist for a rehabilitation program that is right for you.

MATERIAL DESCRIPTIONS

Innovative Material for Genu Direxa and Genu Carezza Knee Braces

Material consists of three layers. The outer layer is a bi-elastic woven textile which creates quality and durability within the fabric that is unmatched in the marketplace. The middle layer is a foam material which uniquely combines compression and breathability — required when worn over a long period of time — creating flexibility that gives different users the same level of wearing comfort. Finally, the inner layer is a brushed material that is very soft in texture creating maximum comfort; the vector grip within the material reinforces the fit, preventing the brace from slipping and falling out of position. Latex-free.

Oeko-Tex™

The Oeko-Tex[™] certificate guarantees that the product is free from harmful substances and that the total production chain from thread to complete product is environmentally friendly. Latex-free.

PCM™/COMFORT™

PCM[™] (Phase Change Material) was originally designed for NASA[™] to protect astronauts against temperature extremes. If the temperature of the body increases, the PCM[™] absorbs surplus heat. If the temperature falls again, they emit the previously stored heat, creating a personal comfort climate. Oeko-Tex[™] approved. Latex-free.

Turbocast®

Turbocast® is moldable plastic material that is used to create individually fitted and reinforced hand supports, combining excellent comfort with unsurpassed stability. The Turbocast® material is heat moldable simply by using hot water. Latex-free.

Darlexx®

Breathable and comfortable, Darlexx® keeps the skin dry and ventilated. The inside fleece lining makes it comfortable and soft on the skin, providing superior comfort. Latex-free.

Neoprene[™]/Thermoprene[™]

Neoprene[™] is shock absorbing, durable and can be washed many times without losing its shape or elasticity. Otto Bock uses pure Neoprene, which is free from harmful fillers, so it's gentle on the skin. Otto Bock uses the brand of Neoprene, called Thermoprene, which has a closed cell structure. This means that every cell is completely isolated, so moisture cannot penetrate the cells, eliminating the risk of bacterial growth. Thermoprene is a synthetic rubber. Latex-free.

Softelle®

An elastic, woven textile that provides excellent stability and comfort. The material keeps the skin dry by wicking away moisture. Oeko-Tex™approved. Latex-free.

Lvcra

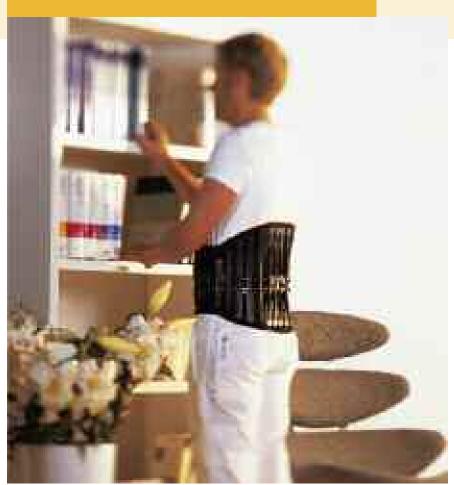
Lycra® is the trademarked name for a brand of Spandex™ material. It is a synthetic fibre that is very stretchable and elastic.

SpaceTex™

SpaceTex[™] is the special 3-D spacer fabric for excellent padding and wicking moisture away from the skin. It is breathable, has high compression recovery and high wearing comfort.

3-D Material

The material has quite high elasticity modulus, that provides the needed stability and compression around the wrist. Also the material outside is quite resistant to pilling and abrasion, material is easily treated and can be washed at normal washing conditions.



A wide range of orthoses are available for the effective treatment of back pain and spinal injuries. The supports ensure an upright posture, activate the abdominal and back muscles and stabilize the spine. Patients can choose between low to high function supports, depending on the degree of pain. The Otto Bock hyperextension orthoses allows for treatment of spinal injuries, e.g. spinal fractures, in accordance with the indications. Moreover, they have proven to be beneficial in providing anterior vertebral unloading in the lumbar and thoracic areas of the spine. The goal of treatment is to relieve the pain and to restore the pain-free functioning of the spine for the long-term.



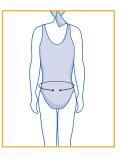
Indication:

- Pelvic dysfunction
- Low back pain
- Prevention

Material: Elastic

1041 DOSI SYMPHYSIOLYSIS

Size	Waist Circumference (cm)
XS	70 – 80
S	80 – 90
М	90 – 100
L	100 – 110
XL	110 – 120
XXL	120 – 130



Effects:

- Supports the pelvic joints
- Acts as a pain relieving brace

- A soft and comfortable support made from an elastic material
- Good fi
- Easy to wear when performing any kind of activity



BRACES & SUPPORTS - BACK



Indications:

• Designed to prevent and relieve back pain

Material: Neoprene™/SBR

7930 BACK SUPPORT BASIC

Size

Universal

Effects:

• Provides a light support and keeps the back muscles warm

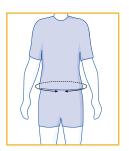
Features:

- Thin and flexible
- Can be used for preventative purposes



1048 DOSI STABLE

Size	Waist Circumference (cm)
S	64 – 72
М	72 – 80
L	80 – 90
XL	90 – 100



Indication:

- Low back pain
- Low back pain radiating down the leg (sciatica)
- Light to moderate degeneration of the lumbar spine (e.g. Osteoarthritis, Facet Syndrome)
- Vertebral disk protrusion

Material: Cotton

Effects:

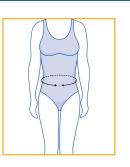
• Stabilizing and relieving back support

- A stable back support made from a strong cotton material with four metal splints
- The support has a flexible two-piece closure at the front



50R11 LUMBO SENSA, WOMEN

Size	Waist Circumference (cm)
XS	70 – 80
S	80 – 90
M	90 – 100
L	100 – 110
XL	110 – 120
XXL	120 – 130



Indication:

Mild to moderate pain conditions due to:

- lumbar spine syndrome
- muscular imbalance
- irritation of the sacroiliac joint

Degenerative changes in the lumbar spine region: e.g.

- Osteoarthritis
- facet syndrome

Effects:

- Promotes sensorimotor functions and activates muscle stabilization in the lumbar spine
- Encourages anatomically correct posture
- Relieves the lumbar spine and reduces pain

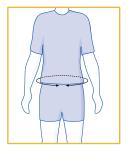
Features:

- The pad stabilizes the lumbosacral transition area
- SKINGUARD® Technology: antibacterial, odour-inhibiting, skinfriendly, climate-regulating, pleasantly soft, latex-free
- Massaging effect of the pad improves circulation, stimulates muscle function and reduces muscle tension



50R10 LUMBO SENSA

Size	Waist Circumference (cm)
XS	70 – 80
S	80 – 90
M	90 – 100
L	100 – 110
XL	110 – 120
XXL	120 – 130



Indication:

Mild to moderate pain conditions due to:

- lumbar spine syndrome
- muscular imbalance
- irritation of the sacroiliac joint

Degenerative changes in the lumbar spine region: e.g.

- Osteoarthritis
- facet syndrome

Effects:

- Promotes sensorimotor functions and activates muscle stabilization in the lumbar spine region
- Supports anatomically correct posture
- Relieves the lumbar spine and reduces pain

- The pad stabilizes the lumbosacral transition area
- SKINGUARD® Technology: antibacterial, odour-inhibiting, skinfriendly, climate-regulating, pleasantly soft, latex-free
- Massaging effect of the pad improves circulation, stimulates muscle function and reduces muscle tension



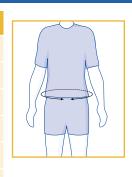


BRACES & SUPPORTS - BACK



1064 DOSI EQ X STABLE

Size	Waist Circumference (cm)
XS	56 – 64
S	64 – 72
М	72 – 80
L	80 – 90
XL	90 – 100
XXL	100 – 110



Indication:

- Low back pain
- Low back pain radiating down the leg (sciatica)
- Light to moderate degeneration of the lower lumbar spine and lower thoracic spine (e.g. Osteoarthritis, facet syndrome)
- Vertebral disk protrusion
- Beginning spondylolysis/spondylolisthesis

Material: Tactel

Effects:

• Extra stabilizing and relieving for the back

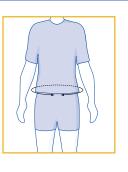
eatures:

- Three points of support through firm straps
- Stable model made from the skin friendly material Tactel
- Metal splints and coil springs provide stabilization
- Non elastic strap closure on the back side to increase stabilization
- Easy to fit



1069 DOSI EQ X

Size	Waist Circumference (cm)
XS	56 – 64
S	64 – 72
М	72 – 80
L	80 – 90
XL	90 – 100
XXL	100 – 110



Indication:

- Low back pain
- Low back pain radiating down the leg (sciatica)
- Light to moderate degeneration of the lower lumbar spine (e.g. Osteoarthritis, facet syndrome)
- Vertebral disk protrusion
- Beginning spondylolysis/spondylolisthesis

Material: Tactel

Effects:

• Stabilizing and relieving back support

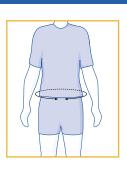
Features:

- A straight model with an adaptable cross strap for individual fitting
- Made from skin friendly material Tactel
- Stabilization through plastic splints and coil springs



1079 DOSI EQ SI

Size	Waist Circumference (cm)
XS	56 – 64
S	64 – 72
М	72 – 80
L	80 – 90
XL	90 – 100
XXL	100 – 110



Indication:

- Low back pain
- Low back pain radiating down the leg (sciatica)
- Light to moderate degeneration of the lower lumbar spine (e.g. osteochondrosis, facet syndrome)
- Vertebral disk protrusion
- Beginning spondylolysis/spondylolisthesis
- Osteoarthritis

Material: Tactel

Effects:

Stabilizing and relieving back support

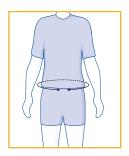
Features

- •A curved model with an adaptable cross strap for individual fitting
- Made from the skin friendly material Tactel
- Stabilization by plastic splints and coil springs



1070 DOSI EQ X HIGH

Size	Waist Circumference (cm)
S	64 – 72
M	72 – 80
L	80 – 90
XL	90 – 100
XXL	100 – 110



Indication:

- Back pain, back pain radiating down the leg (sciatica)
- Light to moderate degeneration of the lower lumbar spine and lower thoracic spine (e.g. osteochondrosis, facet syndrome)
- Vertebral disk protrusion
- Beginning spondylolysis/spondylolisthesis
- Osteoarthritis

Material: Tactel

Effects:

• Stabilizing and relieving back support

- High back support
- A straight model with an adaptable cross strap for individual fitting
- Made from the skin friendly material Tactel
- Stabilization by plastic splints and coil springs





BRACES & SUPPORTS - BACK



1068 DOSI EQ POSTURE SUPPORT

Size	Clothing Sizes (continental) Women	Clothing Sizes (continental) Men
XS	30 – 32	
S	34 – 36	46 – 48
M	38 – 40	48 – 50
L	42 – 44	52 – 54
XL	46 – 48	56 – 58

Indication:

- Postural weakness
- Preventive purpose
- Capacity overload of thoracic and lumbar spine
- Postural reminder

Material: Tactel

Effects:

- Increases the awareness of the body posture
- Acts excellent when learning how to recognise a better body posture
- Is to be used regularly during the day and can be accompanied with an exercise program

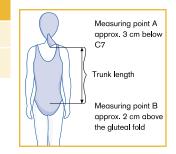
Features:

- A one-piece posture support with a back section and attached straps
- Made from the skin friendly material Tactel
- The back section is stabilized by coil springs
- Can be used along with any other Otto Bock soft back supports



DORSO OSTEO CARE

Size	Trunk Length (cm)
S	39 – 41.5
M	42 – 44.5



- Osteoporotic changes in the thoracic and lumbar spine
- Follow-up treatment of the osteoporotic vertebral body fractures
- The Dosi Osteo Care can be used during the stages of osteoporosis in which muscle action can be used and increased

Material: SpaceTex® fabric

Effects:

- The upper body is raised into an upright position by retracting the shoulder girdle and abdomen
- This is achieved with adjustable straps and an adaptable back
- Thoracic and abdominal breathing is not restricted
- Back muscles are activated

Features:

- Easy application using the backpack principle
- SpaceTex® fabric in the areas of the back, axilla and abdominal support for greater comfort
- Lightweight
- All material components can be removed from the orthosis and
- The orthosis is hardly noticeable and can be worn inconspicuously under clothes



1055 DOSI COMFORT BACK SUPPORT

Size	Waist Circumference (cm)	
S	64 – 72	
М	72 – 80	
L	80 – 90	
XL	90 – 100	
XXL	100 – 110	



Indication:

- Low back pain
- Low back pain radiating down the leg (sciatica)
- Vertebral disk protrusion or prolapse (conservative treatment and postoperative stabilization)
- Moderate degeneration of the lower lumbar spine, spondylolisthesis (vertebral gliding)
- Spinal stenosis
- Osteoarthritis

Material: PCM[™] (Phase Change Material)

Effects:

• Supports and relieves the pressure on the spine

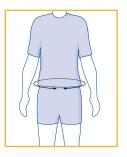
Features:

- An anatomically shaped back support
- Four preshaped metallic splints
- Flexible cross strap system
- Excellent comfort is achieved by the benefits of the material along with the design of the support



1056 DOSI STABLE COMFORT BACK SUPPORT

Size	Waist Circumference (cm)
S	64 – 72
М	72 – 80
L	80 – 90
XL	90 – 100
XXL	100 – 110



Indication:

- Low back pain
- Low back pain radiating down the leg (sciatica)
- Vertebral disk protrusion or prolapse (conservative treatment and postoperative stabilization)
- Moderate degeneration of the lumbar spine
- Spondylolisthesis (vertebral gliding)
- Spinal stenosis
- Osteoarthritis

Material: PCM™ (Phase Change Material)

Effects:

• Extra stabilizing and relieving back support with four preshaped metal splints

Features:

- Increased overall height compared to 1055
- An anatomically shaped back support
- Flexible cross strap system
- Excellent comfort is achieved by the benefits of the material along with the design of the support

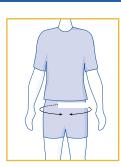


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50R30 LUMBO TRISTEP

Size	Pelvis Circumference (cm)
S	64 – 80
M	80 – 100
L	100 – 125



Indication:

- Post-operative stabilization of the lumbar spine
- Post-operative correction
- Facet syndrome
- Lumbar spinal canal stenosis
- Lumbar intervertebral foramina stenosis
- Degenerative instability
- Spondylolysis, spondylolisthesis
- Herniated intervertebral disk
- Follow-up treatment of vertebral body fractures of the lower lumbar spine (L4/L5)

Effects:

- Systematic rehabilitation process of the lumbar spine in three steps
- Mobility and activity of the patient are increased step by step, while the stabilizing and securing function is gradually decreased during the course of therapy
- The aim of the Lumbo TriStep is to restore muscular balance in the lumbar spine section

Therapy stage 1

During the phase of acute pain, it is important to secure and stabilize the affected structures of the lumbar spine.

Therapy stage 2

By removing the bridging component the patient's freedom of movement is increased, which helps to stimulate natural muscle function.

Therapy stage 3

The support element is completely removed. The Lumbo TriStep compresses and supports the muscles in the lumbar area. In this phase of therapy, the pad can be used optionally. The massaging effect of the pad improves blood circulation and stimulates muscle function.

Features:

- Lumbar spine bridging orthosis that can change stabilization level by removing components
- Bridging element in stage 1
- Autoadaptive support element adapts to the shape of the body
- Lightweight and slim design
- Optimal compression achieved by insertable, textile side parts
- Easy application due to closures with pockets to grasp
- A pad in stage 3 increases the blood circulation and stimulates muscle function

BRACES & SUPPORTS – NECK/SHOULDER/ELBOW



Problems in the neck/shoulder/ elbow areas are quite common and Otto Bock has just the right solutions. A stable neck collar can help reduce pain and give you the support you need.

From arm abduction orthosis with static and dynamic design to epicondylitis support, a wide range of functional supports and orthoses are available and ensure suitable and indicationspecific treatment. The products are notable for their high quality, advanced materials and production technology.



Indications:

- Torticollis
- Whiplash
- Overuse • Degenerative changes
- Stiffness

Material: Polyester, Viscose, Acryl, Lycra®

100/102 NECKY STRAIGHT 6/10 CM

Size	Neck Height (cm)
One size	S 6 cm height
circumference	M 10 cm height

• Relieves pain by limiting movement of the head and neck



BRACES & SUPPORTS - NECK/SHOULDER/ELBOW

BRACES & SUPPORTS - NECK/SHOULDER/ELBOW



Indication:

- Torticollis
- Whiplash
- Overuse
- Degenerative changes

Material: PCM[™] (Phase Change Material)

155	NECKY	COMFORT	NECK	COLLAR

Size	Neck Height (cm)
One size	S 6 cm height
circumference	M 8 cm height
	L 10 cm height

Effects:

• Relieves pain by limiting movement of the head and neck

Features:

• Anatomic cut provides superior comfort

7126 SHOULDER SUPPORT

Size	Biceps Circumference (cm)
XS	24 – 28
S	28 – 32
М	32 – 35
L	35 – 38
XL	38 – 42



Indication:

- Acute and chronic shoulder pain
- Degeneration of the rotator cuff
- Tendomyopathies of the shoulder
- Strains of the shoulder muscles

Material: Thermoprene™

Effects:

• Warming and pain relieving

Features:

- Warming and comfortable shoulder support
- Increases awareness of the shoulder
- Can be worn right or left



5055 ACRO COMFORT SHOULDER SUPPORT

Size	Biceps Circumference (cm)
XS	24 – 28
S	28 – 32
M	32 – 35
L	35 – 38
XL	38 – 42



Indication:

- Acute and chronic shoulder pain
- Degeneration of the rotator cuff
- Tendomyopathies of the shoulder
- Strains of the shoulder muscles
- Minor shoulder instabilities
- Post-operative shoulder support (especially after arthroscopic surgery)

Effects:

• Stabilizing, limiting unwanted motion

Features:

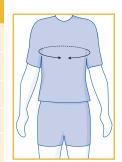
- Anatomically designed shoulder support
- A strap system makes it possible to adjust stability and flexibility
- A silicone lining helps the brace stay in correct position
- Can be worn on right or left



Material: PCM[™] (Phase Change Material)

5065 OMO NEUREXA

Side		Size	Chest Circumference (cm)
left	right	XS	79 – 86
left	right	S	87 – 94
left	right	М	95 – 102
left	right	L	103 – 110
left	right	XL	111 – 118



Indication:

Shoulder pain and dysfunction including subluxation due to neurologic conditions such as:

- Stroke, hemiplegia
- Brachial plexus injuries
- Peripherial nerve damage in cervical spine and shoulder area

Material: PCM™ (Phase Change Material)

Effects:

- Support the shoulder by positioning of the humeral head
- Improvement of body posture achieved through improved sensorimotor control and support
- Facilitates gait training due to the improvement of body posture and symmetry
- Pain relief
- Positioned in slight external rotation to avoid spastic patterns

- \bullet PCM, $\!\!\!^{\scriptscriptstyle{\mathsf{TM}}}\!\!$ allows the patient to wear the orthoses all day long
- Soft and comfortable to wear
- Muscle stimulation pads can be integrated into orthosis
- Individual adjustment
- Silicone strips on the inside to optimize function and prevent sliding



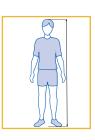
BRACES & SUPPORTS - NECK/SHOULDER/ELBOW

BRACES & SUPPORTS - NECK/SHOULDER/ELBOW



50A11 OMO IMMOBIL ROTATION

Side		Size	Body Height (cm)
left	right	S	150 – 165
left	right	М	165 – 175
left	right	L	from 175



Indication:

Indications that require immobilization of the shoulder joint in 10°, 20° or 30° external rotation or a combination of abduction and external rotation, e.g.:

- Condition after anterior shoulder dislocation
- Bankart lesion (conservative treatment and postoperative immobilization)

Effects:

- Functional shoulder positioning in 0°,15°, 30°, 60° or 90° of abduction
- Additional immobilization in 10°, 20° or 30° of external rotation

Features:

- Individually adaptable
- Sturdy tubular frame construction
- Hook-and-loop abduction wedge for quick abduction angle adjustment
- Separate elements to set external rotation to 10°, 20° or 30°
- All abduction and external rotation angles can be combined as desired
- Breathable and washable pad
- Easy to use
- Easy to adjust no need for tools
- Attractive, low profile design



Indication:

- Lateral epicondylitis (tennis elbow)
- Medial epicondylitis (golfer's elbow)

Material: Neoprene,[™] Elastane, Polyethylene



4801 EPIFLEX ELBOW SUPPORT

Elbow Circumference (cm)
24 – 25
26 – 27
28 – 30
31 – 33



Effects:

- Relieves the pressure on the tendon origin
- Pain relieving

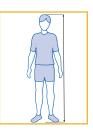
Features:

- Semi rigid plastic elbow clasp
- Easy to apply and adjust
- Lined with Neoprene[™] which is warming and prevents migration
- Can be applied to either arm



50A10 OMO IMMOBIL

Size	Body Height (cm)
S	150 – 165
M	165 – 175
L	from 175



Indication:

Postoperative and post-traumatic conditions of the shoulder and arm requiring abducted positioning, e.g.:

- Rotator cuff surgery
- Reduction of posterior shoulder dislocation
- Subcapital fractures of the humerus
- Shoulder impingement syndrome
- Shoulder replacement surgery
- Operative shoulder stabilization

- Functional shoulder positioning in 0°,15°, 30°, 60° or 90° of abduction
- Relief of the shoulder joint and support of rehabilitation process

Features:

- Individually adaptable
- Sturdy tubular frame construction
- One version for left and right sides
- Hook-and-loop abduction wedge for quick abduction angle adjustment
- Breathable and washable pad
- Easy to use
- Easy to adjust no need for tools
- Attractive, low profile design
- Service component 29A222 can be added for shoulder immobilization in external rotation



Indication:

- Lateral epicondylitis (tennis elbow)
- Medial epicondylitis (golfer's elbow)

Material: Polyamide, Velour

50A3 EPI FORSA PLUS Size

Universal

- Targeted and controlled compression on the forearm muscles
- Reduces load on the tendon insertion

Features:

- Optimal distribution of pressure due to stable, soft padded plastic
- Pad provides precise targeted compression
- Can be applied to either arm
- Flexible band provides dynamic, continuous regulation of pressure
- Hook-and-loop closure allows for continuous adjustment
- Universal size



OAto Bock

BRACES & SUPPORTS - NECK/SHOULDER/ELBOW

BRACES & SUPPORTS - NECK/SHOULDER/ELBOW



Indication:

- For muscle strain
- Injury prevention

Material: Neoprene™/SBR

7921 ELBOW SUPPORT

Size	Elbow Circumference (cm)
S	23 – 25
М	25 – 28
L	28 – 31
XL	31 – 33



Effects:

Warming

Features:

• Warmth and support of the elbow joint

7122 EPI ULNA

Size	Elbow Circumference (cm)
XS	21 – 23
S	23 – 25
M	25 – 28
L	28 – 31
XL	31 – 33
XXL	33 – 36



Indication:

- Lateral epicondylitis (tennis elbow)
- Medial epicondylitis (golfer's elbow)
- Irritations (post-operative, post-traumatic or chronic)
- Tendomyopathies and other soft tissue diseases

Material: Neoprene™

Effects:

- Warming
- Relieves the pressure on the tendon
- Pain relieving

Features:

- Soft, warming elbow brace
- Adjustable width
- Two pads that can be placed on desired spots for pressure distribution are included



50A7 EPI SENSA

Size	Forearm Circumference (cm)
XXS	17 – 19
XS	19 – 21
S	21 – 23
М	23 – 25
L	25 – 27
XL	27 – 29
XXL	29 31



Indication:

- Lateral/medial epicondylitis (tennis elbow, golfer's elbow)
- Irritations (post-operative, post-traumatic or chronic)
- Joint effusions and periarticular swellings (e.g. osteoarthritis or arthritis)
- Tendomyopathies and other soft tissue diseases (e.g. chronic bursitis) and injuries

Effects:

- Sensorimotor control and thus activation of muscle stabilization
- Targeted compression of edema, hematoma and effusions
- Pain relief
- Improves function of the elbow joint

Features:

- SKINGUARD® Technology: antibacterial, odour-inhibiting, skin-friendly, climate-regulating, pleasantly soft, latex-free
- Three dimensional, flat-knit fabric
- Open mesh structure at crease elbow
- Compression-reduced edges
- Integrated anatomical silicone pads



7124 HYPER-EX WARM

Size	Elbow Circumference (cm)
XS	21 – 23
S	23 – 25
M	25 – 28
L	28 – 31
XL	31 – 33



- Prevention of hyperextension of the elbow joint, e.g. after sprains, ligament injuries, and post-surgery
- Elbow pain
- Acute and chronic irritations of the elbow joint
- Post-traumatic and post-operative irritations
- Osteoarthritis of the elbow joint
- Acute and chronic bursitis in the elbow region
- Rheumatic joint effusions

Material: Neoprene™

Effects:

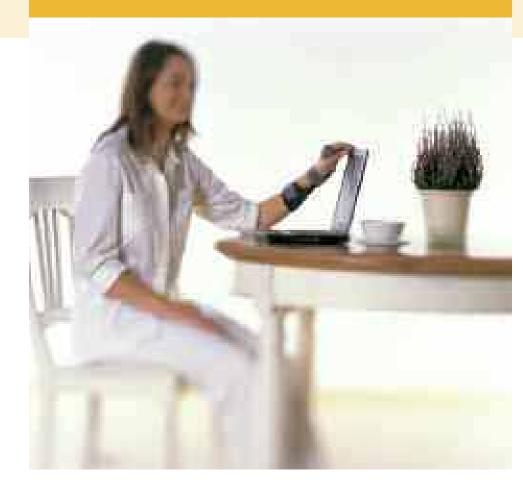
• Prevents hyperextension

- Bilateral metal hinges on each side of the elbow for lateral stabilization
- Cross over straps prevent hyperextension



BRACES & SUPPORTS - HAND & WRIST

8910 WRIST SUPPORT BASIC



Hands are considered to be our most frequently and intensively used tools. No wonder that their performance limit is stretched a bit from time to time. Repeated overloading of our hands can result in soft tissue irritations both acute and chronic — in the wrist, finger and thumb joints. Otto Bock finger and hand orthoses are designed to treat these symptoms.

They are notable for their:

- User-friendliness
- High functionality
- Comfortable anatomical fit
- Lightweight



Indication:

- Overuse
- Inflammatory problems



Effects:

Size

Universal

- Provides a comfortable support to the wrist
- Warming
- Acts as a reminder

Features:

- Short and supple
- Leaves the palm uncovered
- One size, can be used for left or right



4067 CHILDREN'S WRIST SUPPORT

S	Side		Wrist Circumference (cm)
left	right	XXXS	8.5 - 9.5
left	right	XXS	9.5 – 10.5
left	right	XS	10.5 – 11.5
left	right	S	11.5 – 13
left	right	M	13 – 14
left	right	L	13.5 – 15
left	right	XL	15 – 17



Indication:

- Acute and chronic wrist irritations
- Functional treatment of post-traumatic (e.g. sprains) and postoperative irritations of the wrist
- Functional treatment of tendinopathies
- Juvenile arthritis

Material: Darlexx®

Effects:

• Supports and stabilizes through a palmar splint

Features:

- Made from a soft and breathable material
- Adjustable thumb grip



4103 MANU 3D WRIST SUPPORT SHORT

į					
	Side		Size	Wrist Circumference (cm	
	left	right	XS	14 – 15	
	left	right	S	15 – 16	
	left	right	М	16 – 17	
	left	right	L	17 – 18.5	
	left	right	XL	18.5 – 20	
	left	right	XXL	20 – 22	



Indication:

- Acute and chronic overuse irritations
- Functional treatment tendinopathies
- Osteoarthritis

Material: 3D - Polymide, Elastane, Softelle

- Provides a comfortable support to the wrist
- Acts as a reminder

- Short, anatomically shaped wrist support
- Made from a material that does not absorb moisture and keeps skin dry
- Leaves the palm uncovered
- Adjustable thumb strap
- Wrap design



BRACES & SUPPORTS - HAND & WRIST



4026 DIAGONAL COMFORT THUMB SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	XS	13 – 14
left	right	S	14 – 16
left	right	М	16 – 18
left	right	L	18 – 20
left	right	XL	20 – 22



Indication:

- Acute and chronic overuse irritations
- Functional treatment of tendinopathies
- Osteoarthritis

Material: Darlexx®

Effects:

• Supports the thumb joints

- Classic thumb support in a soft and breathable material
- A flexible coil spring provides functional support





50A4 RHIZO FORSA THUMB SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	S	13 – 16.5
left	right	М	16.5 – 20.5



- Injury to the collateral ligaments of the first metacarpophalangeal joint (e.g. skier's thumb)
- Dislocations
- Irritations and wear of the thumb saddle joint and the first metacarpophalangeal joint (e.g. rheumatoid arthritis)

Material: Polyamide, Velour

• Stabilizes the first metacarpophalangeal joint and the thumb saddle joint

- High stability with interior plastic core that can be shape-adapted if desired
- Slim and light construction
- Soft, skin-friendly and comfortable textile material
- User-friendly hook-and-loop closure
- The reversing loop can be easily repositioned (optional)



4084 THUMBOFORM SHORT THUMB SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	XS	13 – 14
left	right	S	14 – 16
left	right	М	16 – 18
left	right	L	18 – 20
left	right	XL	20 – 22



Indication:

- Chronic, post-traumatic or post-operative irritations of the thumb saddle joint and the metacarpophalangeal joint
- After ulnar collateral ligament lesions (skier's thumb)
- Rheumatoid arthritis

Material: Neoprene™/Turbocast®

Effects:

• Stabilizes the thumb joints

Features:

- A thumb brace with an inside pocket where the plastic insert is
- A thermoplastic insert is placed in a pocket and is individually molded
- Comfortable and stable brace



4085 THUMBOFORM LONG THUMB SUPPORT

Side		Size	Wrist Circumference (cm)	
left	right	XS	13 – 14	
left	right	S	14 – 16	
left	right	М	16 – 18	
left	right	L	18 – 20	
left	right	XL	20 – 22	



Indication:

- Chronic, post-traumatic or post-operative irritations in the area of the thumb saddle joint and the metacarpophalangeal joint
- After ulnar collateral ligament lesions (skier's thumb)
- Rheumatoid arthritis

Material: Neoprene™/Turbocast®

Effects:

• Stabilizes the thumb joints

- A thumb brace with an inside pocket where the plastic insert is
- A thermoplastic insert is placed in a pocket and is individually molded
- Comfortable and stable brace
- 2 cm longer than 4084



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BRACES & SUPPORTS - HAND & WRIST



4086 THUMBOFORM EXTRA LONG THUMB SUPPORT

S	Side		Wrist Circumference (cm)	
left	right	XS	13 – 14	
left	right	S	14 – 16	
left	right	М	16 – 18	
left	right	L	18 – 20	
left	right	XL	20 – 22	



Indication:

- de Quervain's disease
- Osteoarthritis
- Ligament injuries to the Carpal Metacarpal or Metacarpophalangeal joint
- Thumb hyperextension problems
- Pain in the wrist and thumb regions

Material: Neoprene™/Turbocast®

Effects:

- Provides excellent stability to the Carpal Metacarpal and Metacarpophalangeal joints of the thumb
- Limits wrist motion

Features:

- Extra long thumb brace made from Neoprene,[™] providing an excellent fit
- A thermoplastic insert is placed in a pocket and is individually molded
- Free motion to the distal thumb joint (IP)
- A wide elastic hook and loop strap around the wrist provides extra wrist stability



4021 ULNAR DEVIATION WRIST SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	XS	13 – 14
left	right	S	14 – 16
left	right	М	16 – 18
left	right	L	18 – 19
left	right	XL	19 – 20



Indication:

• Ulnar deviation (early stages), cumulative trauma

Material: Darlexx®

Effects:

 For day and night use to correct early stages of deviation and prevent further deformity

Features:

- Adjustable finger straps gently align the Metacarpophalangeal joints
- Removable stay to provide palmar support



4146 MANU 3D POLLEX WRIST & THUMB SUPPORT

S	Side		Wrist Circumference (cm)
left	right	XS	14 – 15
left	right	S	15 – 16
left	right	М	16 – 17
left	right	L	17 – 18.5
left	right	XL	18.5 – 20
left	right	XXL	20 – 22



Indication:

- Acute and chronic wrist irritations
- Functional treatment of post-traumatic injuries (e.g. sprains, subluxations, luxations) and post-operative irritations of the wrist
- Carpal tunnel syndrome
- Functional treatment of tendinopathies
- de Quervain's disease
- After ulnar collateral ligament lesions
- Rheumatoid arthritis

Material: 3D - Polymide, Elasthane, Softelle

Effects:

- Provides excellent support to the wrist through a palmar, plastic splint and through the design of the brace
- A laterally placed coil spring supports the thumb

Features:

- \bullet An anatomical design makes this a very comfortable support
- Places the thumb in a functional position
- Easy to apply thanks to the clean design and the wide straps
- Adjustable thumb closure
- Made from a material that does not absorb moisture and thereby keeps your skin dry
- Wrap design



4025 MANU RHEUMA WRIST AND THUMB SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	XS	14.5
left	right	S	15.5
left	right	М	17
left	right	L	18.5
left	right	XL	20
left	right	XXL	21.5



Indication:

- Rheumathoid arthritis
- Osteoarthritis
- Functional treatment of post-traumatic injuries (e.g. sprains, subluxations, luxations) and post-operative irritations of the wrist and thumb
- Functional treatment of tendinopathies

Material: Darlexx®

Effects:

Supports the wrist and thumb effectively

- Made from a soft and breathable material
- Flexible plastic palmar splint for the wrist and coil spring for the
- Easy application through D-rings & circumferential design
- Straight model to fit the arthritic hand
- The placement of the hook and loop straps is chosen to avoid any pressure on ulnar head



BRACES & SUPPORTS - HAND & WRIST



50P13 MANU SENSA

S	Side		Wrist Circumference (cm)
left	right	XS	14 – 15
left	right	S	15 – 16
left	right	М	16 – 17
left	right	L	17 – 18
left	right	XL	18 – 19
left	right	XXL	19 – 20



Indication:

- Irritations such as tenosynovitis, tendomyopathy, light joint contusion, post-traumatic (distortions) and post-operative, reactive irritations and joint pain
- Rheumatoid arthritis
- Carpal tunnel syndrome
- Degenerative wrist problems (arthritis)
- Feeling of instability (e.g. snapping ulna)

Material: Polyamide and Lycra®

Effects:

- Support for targeted compression and stabilization of the wrist
- Supports sensorimotor functions and activates muscle stabilization

Features:

- SKINGUARD® Technology: antibacterial, odour-inhibiting, skinfriendly, climate-regulating, pleasantly soft, latex-free
- Skin-friendly and hard-wearing two-thread flat knit fabric (Polyamide and Lycra®) with an integrated radial pad
- Optional volar plastic splint and elastic wrist strap help to provide additional wrist stabilization



4024 MANU RHEUMA FLEX WRIST SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	XS	14.5
left	right	S	15.5
left	right	М	17
left	right	L	18.5
left	right	XL	20
left	right	XXL	21.5



Indication:

- Rheumatoid arthritis
- Osteoarthritis
- Acute and chronic wrist irritations
- Functional treatment of post-traumatic injuries (e.g. sprains, subluxations, luxations) and post-operative irritations of the wrist
- Functional treatment of tendinopathies

Material: Darlexx®

Effects:

• Supports the wrist through a flexible palmar splint

Features:

- Made from a soft and breathable material
- Easy application through D-rings & circumferential design
- Straight model to fit the arthritic hand
- The placement of the hook and loop straps is chosen to avoid any pressure on ulnar head
- Adjustable thumb strap



4143 MANU 3D BASIC WRIST SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	XS	14 – 15
left	right	S	15 – 16
left	right	М	16 – 17
left	right	L	17 – 18.5
left	right	XL	18.5 – 20
left	right	XXL	20 – 22



Indication:

- Acute and chronic wrist irritations
- Functional treatment of post-traumatic injuries (e.g. sprains, subluxations, luxations) and post-operative irritations of the wrist
- Carpal tunnel syndrome
- Functional treatment of tendinopathies
- Osteoarthritis

Material: 3D - Polymide, Elasthane, Softelle

Effects:

 Provides excellent support to the wrist through a palmar, plastic splint and through the design of the brace

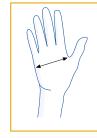
Features:

- Anatomical design makes this a very comfortable support
- Adjustable thumb strap
- Easy to apply thanks to the clean design and the wide straps
- Made from a material that does not absorb moisture and thereby keeps your skin dry
- Wrap design



50P12 MANU FORSA VOLAR

Side		Size	Hand Width (cm)
left	right	S	up to 8.5
left	right	М	from 8.5



Indication:

- Acute and chronic irritations in the wrist, e.g. carpal tunnel syndrome
- Post-traumatic/post-operative conditions which require a high degree of immobilization of the wrist
- Partial paralysis

Material: Velour

Effects

• A high degree of immobilization of the wrist in a functional position

- A functional y-splint provides a stable volar support & ulnar/radial
 support.
- For comfortable anatomical positioning the palm rests on a pad which is attached by hook and loop closure
- Soft, skin-friendly and comfortable velour for high comfort
- Circular hook and loop straps for easy adjustability and application
- Light weight
- Attractive design





BRACES & SUPPORTS - HAND & WRIST



4055 MANU COMFORT WRIST SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	XS-S	13 – 16
left	right	M - L	16 – 19
left	right	XL – XXL	19 – 23



Indication:

- Acute and chronic wrist irritations
- Functional treatment of post-traumatic injuries (e.g. sprains, subluxations, luxations) and post-operative irritations of the wrist
- Carpal tunnel syndrome
- Functional treatment of tendinopathies
- Osteoarthritis

Material: PCM™ (Phase Change Material)

• Stabilizing the wrist through a palmar splint

Features:

- A very comfortable wrist brace due to the design and the material
- Two coil springs on the dorsal side for extra stability
- Easy to apply through hook and loop closure with D-rings
- The central hook and loop strap is wide for optimal support



4058 MANU STABLE COMFORT WRIST SUPPORT

Si	ide	Size	Wrist Circumference (cm)
left	right	XS-S	13 – 16
left	right	M - L	16 – 19
left	right	XL – XXL	19 – 23



Indication:

- Acute and chronic wrist irritations
- Functional treatment of post-traumatic injuries (e.g. sprains, subluxations, luxations) and post-operative irritations of the wrist
- Carpal tunnel syndrome
- Functional treatment of tendinopathies
- Osteoarthritis
- Instability of the wrist
- Drop hand (paresis of the radial nerve)

Material: PCM™ (Phase Change Material)

• Stabilizing the wrist through a palmar side splint

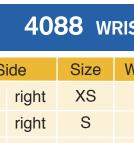
- A very comfortable wrist brace due to the design and the material
- Two coil springs on the dorsal side for extra stability
- Easy to apply through hook and loop closure with D-rings
- The central hook and loop strap is wide for optimal support
- 2 cm longer than 4055
- Wider, more rigid stay



Indication:

- Tendonitis
- Post-operative management
- Post trauma
- Complex wrist injuries
- Carpal tunnel syndrome
- General wrist instabilities

Material: Neoprene[™]/Turbocast[®]



4088 WRISTOFORM WRIST SUPPORT

Side		Size	Wrist Circumference (cm)
left	right	XS	13 – 14
left	right	S	14 – 16
left	right	М	16 – 18
left	right	L	18 – 20
left	right	XL	20 – 22



Effects:

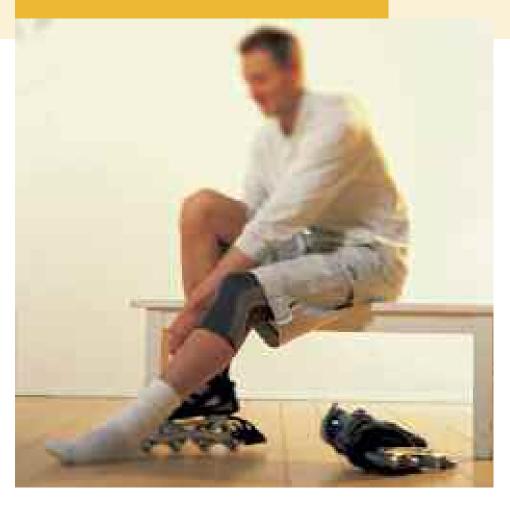
- Provides excellent stability to the wrist
- Prevents wrist flexion and extension

Features:

- Extra stable wrist brace made, providing an excellent fit
- Stabilizes the wrist by a palmar splint and dorsal placed thermoplastic
- A dorsal thermoplastic insert is individually molded
- Full thumb motion maintained
- Non elastic wide hook and loop strap to ensure the stability
- Adjustable closure at the thumb

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BRACES & SUPPORTS - KNEE



As our largest joint, the knee is subjected to great stress on a daily basis. Impact forces, frequently repeated wrong movements, axis deviations, overloading (e.g. overweight) and many other factors have negative effects on the knee. Impact forces such as falls in sports often compromise the ligamentous apparatus. These injuries require appropriate temporary treatment. Long-term overloading will lead to chronic pain such as gonarthrosis and requires suitable long-term therapeutic support. Otto Bock supports and orthoses offer complete solutions for postoperative and conservative therapy.



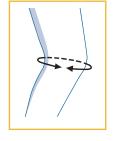
Indication:

- Knee pain
- Swelling

Material: Polyamide, Elasthane



Size	Mid Patella Circumference (cm)
XS	30
S	32.5
М	35.5
L	36.5
XL	41.5
XXL	45
XXXL	48



Effects:

- Pain relief
- Swelling control
- Light support and increases awareness of the knee
- Increases proprioceptive awareness

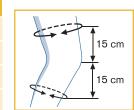
Foatures:

- Elastic knee sleeve in a flexible material with graduated knitting
- Thin
- Fits well underneath clothes



8361 GENU THERMA

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
M	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain without ligament laxities or perception of instability
- Soft tissue irritations (e.g. tendomyopathies, tendonitis, swelling, light infusions)
- Overuse (e.g. sports)
- Long-term soft tissue irritations after injuries and/or surgery
- Beginning osteoarthritis

Material: SpaceTex®

Effects:

- Provides warmth and compression, which helps to reduce pain and improves blood circulation
- Supports sensorimotor control

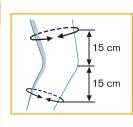
Features:

- Elastic and supple, made from a warming material
- Anatomic design with soft trimmings to provide excellent comfort and fit
- Can be used for left or right



8364 GENU THERMA PATELLA

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
М	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain without ligament laxities or perception of instability
- Soft tissue irritations (e.g. tendomyopathies, tendonitis, swelling, light infusions)
- Overuse (e.g. sports)
- Long-term soft tissue irritations after injuries and/or surgery
- Beginning osteoarthritis
- Patello-femoral pain syndrome (e.g. chondromalacia, beginning osteoarthritis of the patello-femoral joint)

Material: SpaceTex®

Effects:

- Provides warmth and compression, which helps to reduce pain and improve blood circulation
- Supports sensorimotor control
- Reduces pressure on the patella

Features:

- Elastic and supple, made from a warming material
- Anatomic design with soft trimmings to provide excellent comfort and fit
- Opening for patella
- Can be used for left or right



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BRACES & SUPPORTS - KNEE



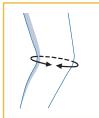
Indication:

• For preventing minor knee injuries

Material: Neoprene™/SBR

7953 KNEE SUPPORT

Size	Mid Patella Circumference (cm)
S	30 – 33
M	33 – 36
L	36 – 39
XL	39 – 42



Effects:

- Provides warmth and acts as a pain relieving support
- Increases proprioceptive awareness
- Light compression

Features:

• A knee support offering warmth and pain relief

Indication:

- Osgood-Schlatter
- Jumper's Knee
- Anterior knee pain

Material: Neoprene™



Effects:

Size Mid Patella Circumference (cm)

35 - 38

38 - 4141 - 44

44 - 48

S

M

XL

- Relieves the pressure on the patellar tendon insertion
- Provides pain relief

8385 GENU THERMA TENDON

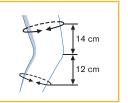
Features:

- Knee strap with a soft pad inside
- Excellent for sports and exercise
- Can be used for left or right



50K15 GENU SENSA

Size	12 cm below mid patella	14 cm above mid patella
XXS	25 – 28	35 – 38
XS	28 – 31	38 – 41
S	31 – 34	41 – 44
М	34 - 37	44 – 47
L	37 – 40	47 – 50
XL	40 – 43	50 – 53
XXL	43 – 46	53 – 56



Indication:

- Feeling of instability
- Irritations (post-operative, post-traumatic and chronic)
- Joint effusion and swelling (e.g. in case of osteoarthritis or arthritis)
- Knee pain caused by strain (tendomyopathies, insertion ligamentosis)

Effects:

- Relief and tracking of the patella
- Support of sensorimotor control and thus activation of muscle stabilization
- Targeted compression for edema, hematoma and effusions
- Pain relief
- Improves function of the knee joint

Features:

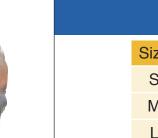
- SKINGUARD® Technology: antibacterial, odour-inhibiting, skin-friendly, climate-regulating, pleasantly soft, latex-free
- Three-dimensional, flat-knitted fabric
- Flexibility in the popliteal fossa
- Compression-reduced edges
- Integrated silicone pad
- Laterally positioned seam
- Medial and lateral coil springs



Indication:

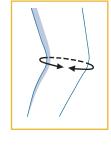
- Osgood Schlatter
- Jumper's Knee
- Anterior knee pain

Material: Neoprene™



8386 GENU THERMA CHONDRO

Size	Mid Patella Circumference (cm)
S	35 – 38
M	38 – 41
L	41 – 44
XL	44 – 48
XXL	48 – 51



Effects:

• Relieves the pressure on the patellar tendon insertion

Features:

- Patella tendon strap
- The adjustable closure above the knee prevents the brace from migrating or rotating
- Excellent for sports and exercise
- Can be used for left or right



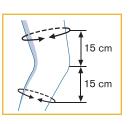
OAto Bock

BRACES & SUPPORTS - KNEE



8360N GENU CAREZZA PATELLA STABILIZER

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
M	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Patello-femoral pain syndrome (e.g. chondromalacia, chondropathy of the patella, beginning osteoarthritis of the patello-femoral joint)
- Patello-femoral malalignment
- Stabilization after patella-luxation/-subluxation
- Stabilization after lateral release surgery

Material:

• Innovative material that combines compression and breathability

Effects:

- Keeps patella in correct position
- Prevents patella-luxation
- Supports sensorimotor control

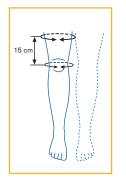
Features:

- Flexible patella stabilizer
- C-shaped pad, which is adjusted by two separate straps
- Short and supple, low model
- Comfortable to wear
- Low profile to fit underneath clothes
- Can be used for left or right



50K20 GENU TRACK

Size	Circumference 15 cm above patella centre
XS	33 – 38
S	38 – 46
M	46 – 53
L	53 – 61
XL	61 – 69
XXL	69 – 79



Indication:

- Patelloluxation and subluxation
- Patellofemoral pain syndrome
- After lateral release surgery
- After patella tendon injury
- Chondromalacia of the patella
- Arthritis

Material: SpaceTex®

Effects:

• Dynamic restraint of the guide pad reduces patella lateralization

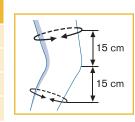
Features:

- Dynamic restraint of pressure on the guide pad
- Required pressure is individually adjustable
- Integrated 10° extension stops proprioceptively prevent hyperextension
- Breathable SpaceTex® material
- Popliteal fossa



8358N GENU CAREZZA PATELLA STABILIZER

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
M	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain with no or minimal ligament laxities and no or light perception of instability
- Soft tissue irritations (e.g. tendomyopathies, insertion tendinitis, swellings, light infusions)
- Overuse (e.g. sports)
- Post-traumatic and post-surgical irritations
- Beginning osteoarthritis
- Patello-femoral pain syndrome (e.g. chondromalacia, chondropathy of the patella, beginning osteoarthritis of the patellofemoral joint)

Material:

• Innovative material that combines compression and breathability

Effects

- Support and stabilization by medial & lateral coil springs
- Supports sensorimotor control

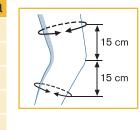
Features:

- Anatomic design with soft trimmings to provide excellent comfort and fit
- Two elastic straps



8362N GENU CAREZZA, WRAPAROUND

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
M	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain with no or minimal ligament laxities and no or light perception of instability
- Soft tissue irritations (e.g. tendomyopathies, insertion tendonitis, swellings, light effusions)
- Overuse (e.g. sports)
- Post-traumatic and post-surgical irritations
- Beginning osteoarthritis
- Patello-femoral pain syndrome (e.g. chondromalacia, chondropathy of the patella, beginning osteoarthritis of the patellofemoral joint)

Material:

• Innovative material that combines compression and breathability

ffects:

- Support and stabilization by medial & lateral coil springs
- Supports sensorimotor control

Features:

- Wraparound design for easy application
- Anatomic design with soft trimmings to provide excellent comfort and fit
- Two elastic straps
- Can be used for left or right



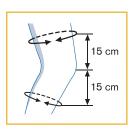
OAAo Bock

BRACES & SUPPORTS - KNEE



8356N GENU DIREXA

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
M	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain with light to moderate ligament laxities and/or perception of instability
- Osteoarthritis with light to moderate degenerative ligament laxities and/or perception of instability (cruciate ligament accentuated)
- Post-traumatic and post-operative ligament laxities or perception of instability
- Rheumatoid arthritis
- Patella-femoral pain syndrome (e.g. chondromalacia, chondropathy
 of the patella, beginning osteoarthritis of the patello-femoral joint)

Material:

• Innovative material that combines compression and breathability

Effects:

- Sensorimotor performance improvements through controlled compression
- Pain relief and functional improvement of the knee joint
- Supports patellar tracking

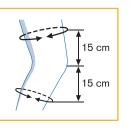
Features:

- Two elastic circular straps
- Grip tongues for easy brace positioning
- Anatomic design with soft trimmings
- Covered polycentric joints in a slim and light design
- Joints can easily be removed from the lateral and medial pockets
- Two elastic straps
- Can be used for left or right
- Provides greatest comfort even in hollow of the knee



8353N GENU DIREXA, WRAPAROUND

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
M	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain with light to moderate ligament laxities and/or perception of instability
- Osteoarthritis with light to moderate degenerative ligament laxities and/or perception of instability
- Post-traumatic and post-operative ligament laxities or perception of instability
- Rheumatoid arthritis
- Patella-femoral pain syndrome (e.g. chondromalacia, chondropathy
 of the patella, beginning osteoarthritis of the patello-femoral joint)

Material:

• Innovative material that combines compression and breathability

Effects:

- Sensorimotor performance improvements through controlled compression
- Pain relief and functional improvement of the knee joint

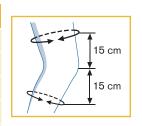
Features:

- Wraparound design for easy application
- Anatomic design with soft trimmings to provide excellent comfort and fit
- Covered polycentric joints in a slim and light design
- Joints can easily be removed from the lateral and medial pockets
- Two elastic straps
- Can be used for left or right
- Provides great comfort even in popliteal fossa



8357N GENU DIREXA STABLE

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
M	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain with light to moderate ligament laxities and/or perception of instability with indication for permanent or temporary limitation of flexion and/or extension
- Osteoarthritis with light to moderate degenerative ligament laxities and/or perception of instability (ACL, PCL)
- Post-traumatic and post-operative ligament laxities or perception of instability
- Rheumatoid arthritis
- Patella-femoral pain syndrome (e.g. chondromalacia, chondropathy of the patella, beginning osteoarthritis of the patello-femoral joint)

Material:

• Innovative material that combines compression and breathability

Effect

- Sensorimotor performance improvements through controlled compression
- Pain relief and functional improvement of the knee joint
- Protection from hyperextension
- Supports patellar tracking

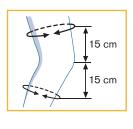
Features:

- Polycentric joints with changeable extension and flexion stops (extension 0°; 10°; 20°; 30°; 45°) (flexion 0°;10°; 20°; 30°; 45°; 60°; 75°; 90°)
- Two non-elastic, circumferential strap systems
- Covered joint bars (suited for contact sport)
- Provides great comfort even in popliteal fossa
- Grip loops for easy brace positioning
- Can be used for left or right



8367N GENU DIREXA STABLE, WRAPAROUND

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
М	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain with light to moderate ligament laxities and/or perception of instability with indication for permanent or temporary limitation of flexion and/or extension
- Osteoarthritis with light to moderate degenerative ligament laxities and/or perception of instability (cruciate ligament accentuated)
- Post-traumatic and post-operative ligament laxities or perception of instability
- Rheumatoid Arthritis
- Patello-femoral pain syndrome (e.g. chondromalacia, chondropathy of the patella, beginning osteoarthritis of the patello-femoral joint)

Material:

• Innovative material that combines compression and breathability

Effects:

- Sensorimotor performance improvements through controlled compression
- Pain relief and functional improvement of the knee joint
- Protection from hyperextension

Features

- Polycentric joints with gradual changeable and flexion stops (extension 0°: 10°: 20°: 30°: 45°) (flexion 0°: 10°: 20°: 30°: 45°: 60°: 75°: 90°)
- Two non-elastic, circumferential strap systems
- Covered joint bars (suited for contact sport)
- Provides great comfort even in popliteal fossa
- For patients with limited grip strength and hand function
- Can be used for left or right



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out be used for left of right

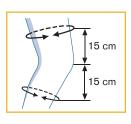


BRACES & SUPPORTS - KNEE



8359N GENU DIREXA STABLE, LONG

Size	15 cm below mid patella	15 cm above mid patella
XS	32 – 35	40 – 44
S	35 – 38	44 – 48
M	38 – 41	48 – 52
L	41 – 44	52 – 56
XL	44 – 48	56 – 61



Indication:

- Knee pain with severe and/or complex ligament laxities and/or perception of instability with option to limit flexion and extension
- Protection of the knee joint in the rehabilitation phase after ligament surgery • Pre-operative or chronic instability of the anterior and/or posterior
- cruciate ligament (ACL, PCL)
- Severe and/or complex post-traumatic instability of the knee
- Severe and/or complex degenerative instability of the knee (e.g. in severe osteoarthritis, rheumatoid arthritis)
- Functional conservative treatment of collateral ligament injuries
- Hyperextension of the knee
- Stabilization/limitation of range of motion in meniscopathies and after meniscal surgery
- Severe instability in patello-femoral pain syndrome (e.g. chondro malacia, chondropathy of the patella, beginning osteoarthritis of the patello-femoral joint)

Material:

• Innovative material that combines compression and breathability



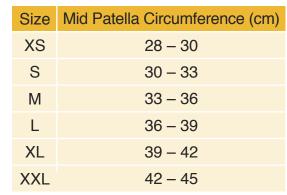
Effects:

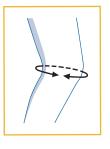
- Sensorimotor performance improvements through controlled
- Pain relief and functional improvement of the knee joint
- Protection from hyperextension
- Collateral stabilization
- Four-strap stabilization
- Supports patellar tracking

Features:

- Polycentric joints with changeablel extension and flexion stops (extension 0°; 10°; 20°; 30°; 45°) (flexion 0°; 10°; 20°; 30°; 45°;
- Four non-elastic, circumferencial strap systems
- Covered joint bars (suited for contact sport)
- Provides great comfort even in popliteal fossa
- Grip loops for easy brace positioning

8156 COMBI STABLE KNEE SUPPORT





Indication:

- Patello-femoral pain syndrome
- Osteoarthritis with beginning or moderate degenerative ligament
- Post-traumatic and post-surgical laxities/instabilities
- Rheumatoid Arthritis

Material: Thermorlene

Effects:

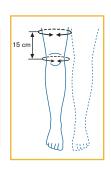
- Stabilizes the knee
- Reduces the load on the knee

Features:

- Knee brace with covered, double jointed hinges on each side
- Velcro closure on thigh and calf
- Detachable patella pad for additional support
- Optional posterior knee straps to prevent hyperextension



50K13 GENU AREXA Side Size Circ. (cm) Knee joint Circ. (cm) 15cm above mid patella S left right 32 - 3739 - 46left right M 37 - 4146 - 5341 - 46left right 53 - 61XL 46 - 5061 - 69right left right XXL 50 - 5669 - 79



Indication:

Knee pain with severe and/or complex ligament laxities and/or perception of instability. Option to limit flexion and extension:

- Protection of the knee joint after surgery of the anterior cruciate ligament (ACL) and/or the collateral ligaments (MCL, LCL)
- Preoperative or chronic instability of the anterior cruciate ligament (ACL)
- Functional conservative treatment of collateral ligament injuries
- Severe and/or complex post-traumatic instability of the knee (ACL,
- Severe and/or complex degenerative instability of the knee (e.g. in severe osteoarthritis, rheumatoid arthritis)
- Stabilization/limitation of range of motion after meniscal surgery

Effects:

- Provides optimal stabilization
- Limits the anterior drawer effect
- Provides collateral ligament stabilization
- Defined range of motion
- Protects against hyperextension

Features:

- Click 2 Go flexion and extension stops for tool free ROM adjustments
- Click 2 Go condyle baskets and width adapters
- Autoadaptive wings for high wearing comfort
- Anatomical strap pad to relieve the tibia edge and prevent rotation of the orthosis
- Comfortable paddings for frame and straps
- Circumferential straps around the knee to prevent migration
- Individually positionable distal knee strap
- Low profile and light weight design
- TechnoGel® pads for optimal fit and pressure point application
- Service friendly strap attachments

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BRACES & SUPPORTS - KNEE



28K20/28K21 GENU ARTHRO

Thigh module (28K20)

9			
Side		Size	Length Step height–popliteal space (A)
left	right	XS	70 – 80
left	right	S	80 – 90
left	right	M	90 – 100
left	right	L	100 – 110
left	right	XL	110 – 120

Transtibial module incl. foot part (28K21)

Size

XS

S

M

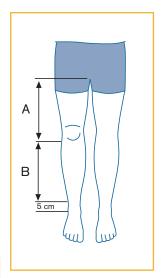
Side

left right

left right

left right left right

left right XL



purchased together

28K20 and 28K21 must be

- Indication: Medial osteoarthritis of the knee
- Lateral osteoarthritis of the knee

Effects:

• Relief of the affected knee joint by means of the classic 3-point pressure system that produces a varus or valgus moment.

- Easy anatomical adaptability of the tubular frame
- Lever for optimal load distribution

Length

Popliteal space – 5cm above

laterale malleolus (B)

270 - 305

305 - 340

330 - 365

360 - 395

395 - 430

- Unilateral joint
- Pressure pads in 3 different thicknesses
- Frame pads made of breathable SpaceTex®
- Strap pads with easy quick release
- Lightweight
- Foot stirrup prevents brace translation



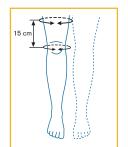
Indication:

• For strains and muscle injuries

Material: Neoprene™/SBR

7940 THIGH SUPPORT

Size	Thigh Circumference (cm)
S	48 – 50
М	50 – 52
L	52 – 54
XL	54 –56



Effects:

- •Warming, which increases blood flow
- Provides light compression

Features:

• A thigh support offering warmth and pain relief



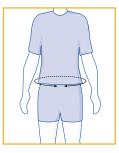
Indication:

• For strains and inflammation in the groin, hips and lumbar region

Material: Neoprene™/SBR

7981 THERMAL SHORTS

Size	Waist Circumference (cm)
S	70
М	80
L	90
XL	100



Effects:

- Warming, which increases blood flow
- Prevents and relieves stiff muscles
- Provides a light compression

Features:

• Provides warmth and support and reduces stiffness

BRACES & SUPPORTS – ANKLE/FOOT

BRACES & SUPPORTS - ANKLE/FOOT



Our ankle supports and orthoses were developed in close collaboration with physicians and therapists. As a result, they are extremely functional. All products are notable for functionality in accordance with the indication for use, high wearer comfort and practice-oriented design. They are fabricated from state-of-the-art materials and meet patients individual requirements for fitting and physical therapy.



Indication:

- Ankle sprain
- Slight instability of the ankle joint

Material: Viscose, Polyamide, Elasthane



504 ELASTIC ANKLE SUPPORT

Size	Circumference (cm)
S	51 – 53
M	53 – 55
L	55 – 57
XL	57 – 59
XXL	59 – 61



Effects:

- Supports the ankle
- Swelling can be reduced by compression

Features:

- Offers good support, yet very soft and comfortable
- Extremely flexible and can therefore be adapted to individual compression needs
- Can be used for all kinds of activities
- Fits easily into the shoe
- Looped around the ankle



• Achilles tendon tenderness and stiffness in the ankle joint

7973 ANKLE SUPPORT

Size	Circumference (cm)
S	20 – 22
М	22 – 24
L	24 – 26
XL	26 – 28



Effects:

• Warming, which increases blood flow

Features:

- Soft, flexible ankle support
- Fits easily into shoe



50S5 MALLEO SENSA

Size	Above Ankle Circumference (cm
XS	17 – 19
S	19 – 21
М	21 – 23
L	23 – 25
XL	25 – 27
XXL	27 – 29



Indication:

- Feelings of instability
- Irritations (post-operative, post-traumatic or chronic)
- Joint effusions and swellings with arthrosis and arthritis
- Tendomyopathies
- Ligament insufficiency

Material: Viscose, Polyamide, Elasthane

- Support of sensorimotor control and thus activation of muscle stabilization
- Targeted compression for edema, hematoma, and effusions
- Pain relief
- Improves function of the ankle joint

- SKINGUARD® Technology: antibacterial, odour-inhibiting, skin-friendly, climate-regulating, pleasantly soft, latex-free
- Three-dimensional, flat-knitted fabric
- Flexibility at the ankle joint
- Compression reduced edges
- Integrated anatomical Silicone pads



Indication:

Material: Neoprene™/SBR

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BRACES & SUPPORTS - ANKLE/FOOT

BRACES & SUPPORTS - ANKLE/FOOT



7175 MALLEOFORM ANKLE SUPPORT

Size	Above Ankle Circumference (cm)
XS	18 – 20
S	20 – 22
M	22 – 24
L	24 – 26
XL	26 – 28



Indications:

- Ankle sprains/strains
- Medial/lateral instabilities
- Ligament injuries

Material: Thermoprene™/Turbocast®

Effects:

• Comfortable, customized ankle stabilization

Features:

- Thermoprene material and a heat-moldable plastic insert that conforms to the patient's foot (in a process that's both quick and comfortable for the patient)
- Extra figure 8 strap to provide increased stability



50S3 MALLEO SPRINT

Size	Ankle Circumference (cm)		
XS	25.5 – 28.0		
S	28.0 - 30.5		
M	30.5 – 33.0		
L	33.0 – 35.5		
XL	35.5 – 38.5		



Indication:

- Chronic instability of the ankle joint
- Ligament instabilities
- Postoperative or posttraumatic treatment after ligament ruptures
- (Severe) ankle sprains (with ligament rupture)

- The special exoskeletal reinforcement provides a high degree of stabilization with and without a shoe
- Limits eversion and inversion of the foot
- Does not limit plantar and dorsal flexion

- The combination of a plastic skeleton and strap guide assures a high degree of stability and prevents undesired movements
- High level of wearer comfort thanks to an outstanding anatomical fit
- Easy entry to the orthosis
- Optimum hook closure system
- Can be applied left or right



50S8 MALLEO TRISTEP

Side		Size	Ankle Circumference (cm)
left	right	XS	25.5 – 29
left	right	S	29.5 – 31.5
left	right	M	32 – 34
left	right	L	34.5 – 36.5
left	right	XL	37 – 39



Indication:

- Acute and chronic ligament instability and injuries of the ankle
- Diseases and injuries of the peroneal tendon
- Inflammatory and degenerative joint diseases of the ankle
- Post-operative application for phase-adapted protection and rehabilitation after ligament reconstruction

Features:

- Auto-adaptive design offers a high level of wearer comfort
- Auto-adpative medial and lateral stabilization elements offers a high level of wearer comfort
- Adjustments and removal of support elements without the use of tools
- The hook-and-loop closures are length adjustable
- Orthosis can be opened completely, so that applying is very
- Individual adjustment to patient needs, due to the optional function and stabilization elements

Phase I – Inflammation Phase: (Days 1–3)

Effects:

- Reducing pain
- Reducing swelling according to the RICE rule

- Malleo TriStep® is used with all its components
- Foot positioning in a slight pronation using the foot cup and pronation strap:
- Assures sufficient stabilization
- Allows inflammation to recede
- Encourages primary healing
- Weight bearing on the foot as well as toe movements should be pain-free; use forearm crutches if necessary
- Foot cup is worn day and night, but not in a shoe

Phase II - Proliferation Phase: (Days 4-28)

Effects:

- Targeted mobilization under controlled loads
- Increasing the level of activity
- Improving muscular stability

- Red stabilizing elements and a support strap guarantee the required level of stability
- Over the course of therapy, the red elements can be replaced with the grey, more flexible ones
- Sports activities are possible, but should first be discussed with the attending physician / physiotherapist – The orthosis must be applied during sports activities
- Continuing to use the positioning splint at night is recommended since the foot automatically drops into the supination position, which increases the risk of recurrent ruptures

Phase III – Remodulation Phase: (Days 29–42)

• Improving functional stability and mobility

• Improving coordination and balance

- Malleo TriStep® is only used as a support during this phase (proprioceptive effect/ neuromuscular training)
- Optional use of the stabilization strap
- Malleo TriStep® may also be worn for prevention (e.g. during sports)





BRACES & SUPPORTS - ANKLE/FOOT

BRACES & SUPPORTS - ANKLE/FOOT



509 HALLUX VALGUS COMFORT

S	ide	Size
left	right	Universal

Indication:

• Hallux Valgus

Material: PCM™ (Phase Change Material), Polyamide, Elasthane

Effects:

- The strap helps align the big toe, making it easier for the muscles to pull properly
- Often provides pain relief

Features:

- Good fit
- Can prevent and slow the development of the deformity
- PCM[™] padding provides excellent comfort



Indication:

• Hallux Valgus

Material: Polyamide, Elasthane

510 HALLUX VALGUS COMBO COMFORT

S	ide	Size
left	right	Universal

Effects:

- The strap helps align the big toe, making it easier for the muscles to pull properly
- Often provides pain relief

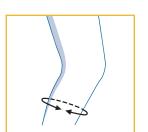
Features:

- A longer strap than 509
- Is wrapped around the ankle
- Can prevent and also decrease the development of the deformity
- PCM[™] padding provides excellent comfort



7960 CALF SUPPORT

Size	Calf Circumference (cm)
S	33 – 35
M	35 – 37
L	37 – 39
XL	39 – 41



• Suitable for shin splints/periostitis and muscle tears

Material: Neoprene™/SBR

Effects:

- Provides a light support
- Increases blood circulation and keeps the calf muscles warm

- Increases the blood flow and relieving pain
- Thin and supple

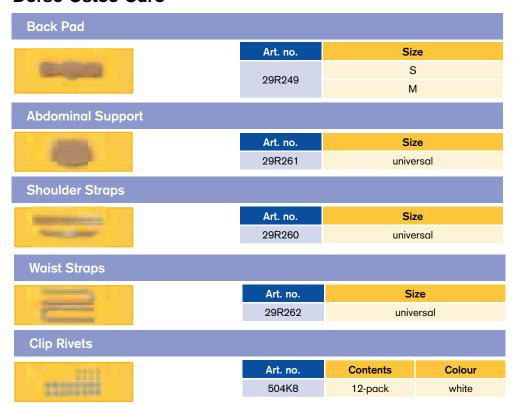
SERVICE PARTS, ACCESSORIES

SERVICE PARTS, ACCESSORIES

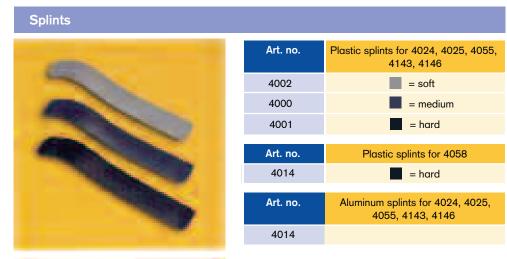
Service Parts: 1048-1079 Additional Pads for Dosi Supports



Service Parts: 50R20 Dorso Osteo Care



Service Parts: 4024 - 4146





The support splints follow the contour of the wrist. They are pre-shaped to provide a functional resting position of the wrist as well as to fit to the shapes of the palm, wrist and forearm. Plastic splints can be custom-adapted with hot water (78 – 80 $^{\circ}$ C / 167 –176 $^{\circ}$ F). The material retains its shape and is environmentally friendly. Available in three rigidity ranges. The aluminum splints do not contain heavy metals such as chrome, nickel or zinc. They can be customized to the patient's individual contours.

Spare Parts for Omo Immobil 50A10 and 50A11 29A222

Three elements for immobilization of the shoulder in 10° , 20° , 30° external rotation position.



Art. no.	Side	Size
29A222=R-S/M	Right	S/M
29A222=R-L	Right	L
29A222=L-S/M	Left	S/M
29A222=L-L	Left	L

29A217

Use the replacement cover while the fabric cover is being cleaned.



S
М
L

29A225

Suitable for daily arm muscle training. Physiotherapist can show the patient various exercises.



Art. no.	Size
29A225	Universal

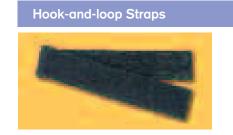
Service Parts: 50K13 Genu Arexa



Art. no.	Side		Size
29K80	left	right	S
	left	right	M
	left	right	L
	left	right	XL
	left	right	XXL

- Consisting of: 2 x Upper part pad
 - 2 x Lower part pad 2 x Strap pad
 - 1 x Frame pad
 - 1 x Pad cover
 - 1 x Tibia pad
 - 2 x Textil cover for TechnoGel knee pad
 - 2 x TechnoGel Knee pad
 - 2 x Ergonomic closure
 - 6 x Hook-and-loop Closure Y-design Micro hook tape, back-to-back
 - 12 x Plastic pin upper part
 - 12 x Plastic pin lower part
 - 2 x Stop set
 - 6 x Strap
 - 4 v Distance rina

Service Parts: 28K20/28K21 **Genu Arthro**



Art. no.	Strap	Width inch	Ler	ngth inch	Colour
170Z=400 - 7	3.8	1.5	40	15.8	black
170Z=900 - 7	3.8	1.5	90	35.4	black

Hook-and-loop Closure Y-Des	ign		
	Art. no.	Strap Width	Colour
- Cha	29Y161=40 - 7	3.8 1.5	black
- CAN (CA)			

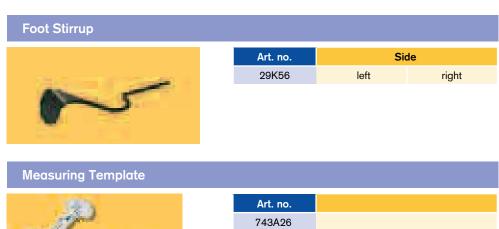
SERVICE PARTS, ACCESSORIES

Art. no. Strap Width cm inch 170D20 3.8 1.5

Strap Pads					
	Art. no.	Strap	Width inch	Len	gth in
DODGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	29S29	3.8	1.5	44	17

AAAAAAAAAAAAAAAAA					
OCCUPATION OF THE PROPERTY.					

	Art. no.	Si	de
29	S26	left	right
		left	right
		left	right
		left	
		left	right right



COMMON CONDITIONS – BACK

CHRONIC BACK PAIN, COMPRESSED DISC, SCIATICA

Persistent long-term pain localized to the lumbar region (small of the back), possibly with pain radiating down the legs.

Possible Causes

Repeated low back pain • Poor posture • Physical inactivity • Physically demanding work, e.g. heavy lifting • Poor working or sitting positions • Accident

Symptoms

Pain may be experienced when coughing or sneezing

Pain in the lumbar region, possibly with radiating pain, which often follows a specific pattern. The pain often intensifies when the nerve is trapped. Strength, sensation and reflexes may be affected

Treatment

Rest in the case of acute pain (approx. 1–3 days)
Contact a doctor or therapist for diagnosis
Mobility training, stabilization training and weight
training program
Active posture correction

Avoid sitting if this causes more pain Properly fitted back orthosis



COMMON CONDITIONS – BACK

LOWER BACK PAIN

Pain in the lumbar region, often rapid onset, possibly radiating down one side into the buttock/or leg.

Possible Causes

Lifting while at the same time twisting the back, for example, when clearing snow

Poor working position

Poor warming up

Stiff/short muscles

Symptoms

Reduced mobility and stiffness in the lumbar region

Cramps in the back muscles on one side of the body

Sharp pain when executing certain movements

Treatment

Rest in a pain free position

Activity without pain over the first few days to increase circulation e.g. short walks

Gradual increase in exercise in the form of mobility, stability and strength training

Do not take part in activities which make the pain worse

See a doctor or physiotherapist if the condition worsens or

fails to get better

Properly fitted back orthosis



COMMON CONDITIONS – BACK

WEAK BACK (BACK INSUFFICIENCY)

Pain is localized to the small of the back and adjacent areas. Symptoms may persist for a few days to weeks, alternating with pain-free periods.

Possible Causes

Poor posture, hypermobility, overexertion

Reduced trunk stability due to weak muscles

Tense Muscles: Back of thigh, gluteal muscles and hip flexors

Symptoms

Tiredness and pain in the small of the back

Stiffness and pain in the mornings or after exertion

Pain is accentuated after sitting for long periods of time, standing, lifting and working while

leaning forward or after participation in sports

Treatment

Active posture correction

Stabilization training of the trunk and back muscles

Strength training

Stretching

Properly fitted back orthosis



COMMON CONDITIONS – NECK/SHOULDER/ELBOW

MUSCLE PAIN IN THE NECK AND SHOULDERS

Common among industrial workers, hairdressers and office workers where one-sided static working movements are being performed.

Possible Causes

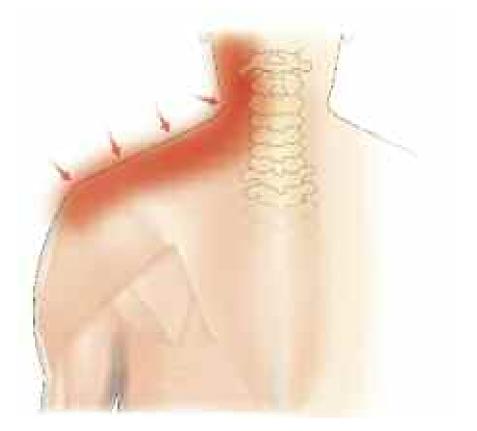
Weak and/or short muscles in neck and shoulders Poor posture/working conditions Reduced ROM in the thoracic spine Stress/anxiety

Symptoms

Pain, soreness and aches in neck and shoulders Stiffness when moving your head Headaches

Treatment

Avoid static work movement Train weak muscles Stretch tight muscles ROM for thoracic spine Posture correction Properly fitted back orthosis



COMMON CONDITIONS - NECK/SHOULDER/ELBOW

OVERUSE/INFLAMMATION IN MUSCLES AND TENDON INSERTIONS AROUND THE SHOULDER JOINT

Common problems among painters, carpenters, waitresses, hairdressers and many athletes.

Possible Causes

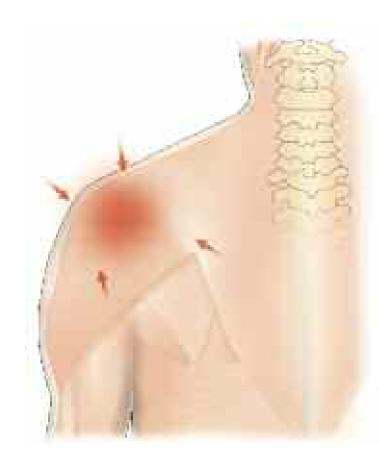
Instability/degenerative changes
Stiffness in the thoracic spine
Poor posture
Static work above the shoulders

Symptoms

Pain and reduced strength in the shoulder Difficulty getting dressed, combing hair and/or sleeping on the shoulder Pain and soreness during and after activity

Treatment

Avoid static work
Adapt working positions
Training of ROM, coordination, strength and stability
Properly fitted back orthosis



COMMON CONDITIONS - ELBOW

EPICONDYLITIS, COMMONLY KNOWN AS TENNIS ELBOW OR GOLFER'S ELBOW

Can be acute due to overstrain and sometimes develops into a chronic condition.

Possible Causes

Repetitive unilateral/static work of the hand and forearm

Symptoms

Pain on the outside or inside of the elbow

Lack of strength

The trouble is aggravated by brushing teeth, writing, lifting, sports, or computer work

Treatment

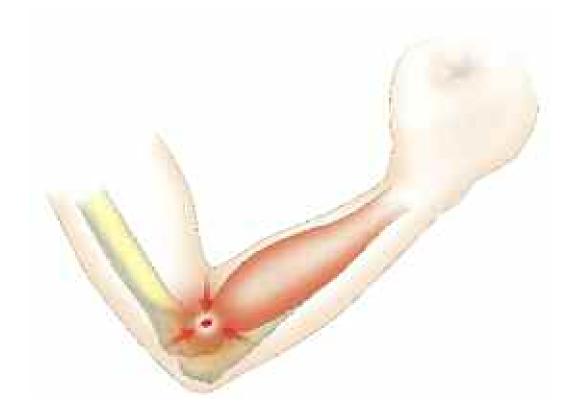
Eccentric training with bent or straight elbow

Stretching

Elbow support/orthosis

Adjust working space and equipment

Avoid activities that aggravate the symptoms



COMMON CONDITIONS – HAND

OSTEOARTHRITIS IN THE BASAL JOINT (CARPOMETACARPAL) OF THE THUMB

Osteoarthritis occurs when the cartilage loosens and its quality deteriorates and eventually disappears partly or completely. The defective cartilage causes an uneven load that makes the joint unstable and painful.

Possible Causes

Age

Hereditary

Earlier injury

Symptoms

Local pain in and around the joint

Motion pain may increase over the years, intense pain may appear

Resting pain

Swelling

Strength

Decreased grip

Treatment

A firm splint or an elastic thumb brace

A night splint for proper positioning

Ergonomic advice

Daily training and active ROM without the brace



COMMON CONDITIONS - HAND

COMMON CONDITIONS – KNEE

CARPAL TUNNEL SYNDROME

A type of (compression) neuropathy (nerve damage) caused by compression and irritation of the median nerve in the wrist. The nerve is compressed within the carpal tunnel, a bony canal in the palm side of the wrist that provides passage for the median nerve to the hand.

Possible Causes

Hormonal factors

Pregnancy

Repetitiove movement

Rheumatic diseases

Earlier wrist fractures

Symptoms

Tingling, prickling sensations and numbness in the thumb, index finger, middle finger and half of the ring finger

Pain and numbness that is intensified at night

Reduced grip strength

Treatment

Night brace to keep the wrist in a neutral position If the hand is swollen it should be kept high while resting Cooling

A wrist brace makes it easier to perform daytime activities Consult a doctor/therapist if a night splint has been used for more than 3 weeks, with remaining or increasing pain or if sensation is reduced both day and night



OSTEOARTHRITIS - DAMAGE TO THE KNEE

Osteoarthritis occurs when the cartilage wears, loosens and its quality deteriorates – eventually disappearing partly or completely. The defective cartilage causes an uneven load, making the joint painful and unstable.

Possible Causes

Age

Genetic and anatomical preconditions

Overweight

Earlier injuries

Symptoms

Pain on pressure and/or when resting

Restricted mobility

Swelling, stiffness

Treatment

Brace to ease pain and enhance security Rehabilitation program with stretching



COMMON CONDITIONS - KNEE

JUMPER'S KNEE

Rupture or inflammation of the patellar (kneecap) tendon due to overloading.

Possible Causes

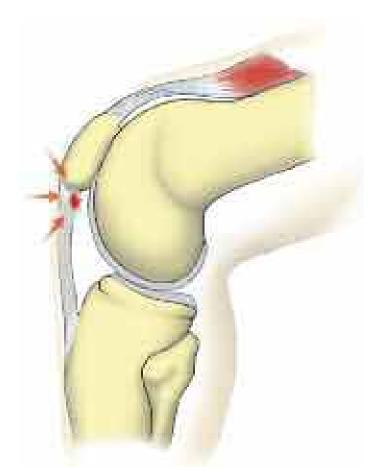
Overloading of the patellar tendon Reduced strength in the front thigh muscle Insufficient rehabilitation after earlier injury

Symptoms

Pain in the patellar tendon in connection with activity Pain and stiffness during and after exertion Stiffness in the mornings Swelling under the patella and pain caused by pressure

Treatment

Orthotics to lessen the pressure on the patellar tendon Avoid activity that causes pain Rehabilitation program Stretching Properly fitted support



COMMON CONDITIONS – KNEE

OSGOOD-SCHLATTER DISEASE

Overload and inflammation of the point where the patellar tendon meets the lower leg (growth zone). Mainly affects children during growth periods and usually is outgrown.

Possible Causes

The exact cause is not known, but the pain is often accentuated if a lot of exercise is done without rest and recovery periods.

Symptoms

Pain, swelling and tenderness at the point where the tendon meets the shin bone A bulge may appear where the tendon attaches

Treatment

Brace for warmth and pressure relief Stretching, training Proper footwear Properly fitted support



COMMON CONDITIONS – KNEE

PATELLOFEMORAL PAIN SYNDROME

A common condition of the knee affecting both active and inactive people. The pain is often triggered in connection with physical activity.

Possible Causes

Anatomical and genetic predisposition

Muscular imbalance in the leg

Weakness and tightness in the front thigh muscles

Hyperpronation

Overloading the joint

Incorrect position of the patella

Symptoms

Pain in the front of the knee, during or after exertion

Pain when walking up or down stairs

Pain when crouching, or when standing up from a sitting position

Pain when sitting for a long period of time

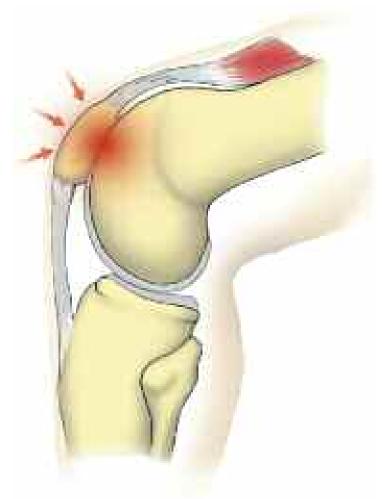
Locking sensation

Treatment

Brace that offers support for the patella

Rehabilitation program

Special footwear



COMMON CONDITIONS – KNEE

DAMAGE TO THE MENISCUS (CARTILAGE)

This injury may be sustained on both the inside and the outside of the knee. Can occur during sport, twisting or when standing up.

Possible Causes

Severe twisting

Hyperextension

Deep knee bending

Symptoms

Pain when twisting, hyperextending or bending

Locking sensation

Pain, impaired mobility of the knee

Swelling

Reduced strength in the front thigh muscle

Treatment

Emergency attention if severe

Possibly surgery

Rehabilitation program

No return to sport until satisfactory mobility, strength, balance

and coordination have been achieved

Use a brace to complement rehabilitation



COMMON CONDITIONS - KNEE

COMMON CONDITIONS - KNEE

DAMAGE TO THE LATERAL LIGAMENT IN THE KNEE

Partial or total rupture of the lateral ligament may occur on either the inside or the outside of the knee.

Possible Causes

Severe twisting

Severe movement, e.g. a blow or collision with the outside or inside of the knee

Symptoms

Pain on the inside or outside of the knee at time of injury

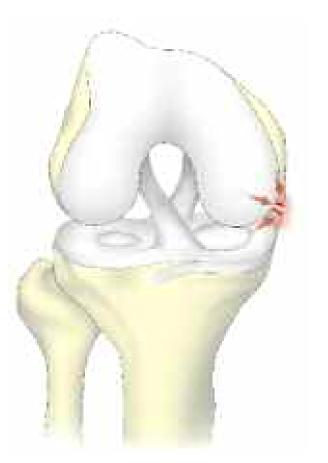
Pain when bending the knee

Tenderness when pressed

Sensation of staggering or unsteadiness

Treatment

Emergency attention if severe Brace to facilitate activity and rehabilitation Rehabilitation program



DAMAGE TO THE CRUCIATE LIGAMENT IN THE KNEE (ACL AND PCL)

One of the most common and most problematic sports knee injuries.

Possible Causes

Severe twisting

Severe movement, e.g. a blow or collision with the outside or inside of the knee Hyperextension

Symptoms

Immediate pain upon injury
Difficulty applying pressure to the injured joint
Swelling in the knee
Instability
Impaired mobility and muscle function

Treatment

Emergency attention if severe Possibly surgery Rehabilitation program Brace to facilitate activity and rehabilitation



COMMON CONDITIONS – ANKLE/FOOT

COMMON CONDITIONS – ANKLE/FOOT

SPRAINED ANKLE LIGAMENT INJURIES

One of the most common ankle injuries. Usually caused when the foot is twisted, causing the ligaments to stretch or rupture.

Possible Causes

Twisting

Insufficient rehabilitation period after previous injury/sprain

Reduced balance and coordination in the ankle joint

Symptoms

Pain and swelling

Reduced ROM

Pain on weight bearing

Bruising

Pressure pain around the ankle

Treatment

Emergency attention if necessary

Ankle support during rehabilitation



HALLUX VALGUS (BUNIONS)

Tilting of the toe away from the midline of the body. A bony prominence forms at the big toe joint.

Possible Causes

Age

Inappropriate footwear

Genetics

A foot that pronates or rolls inward excessively when walking

Symptoms

Bony protrusion on the big toe

Friction and pain when wearing shoes

Treatment

Buy well-fitting shoes with a wide toe box

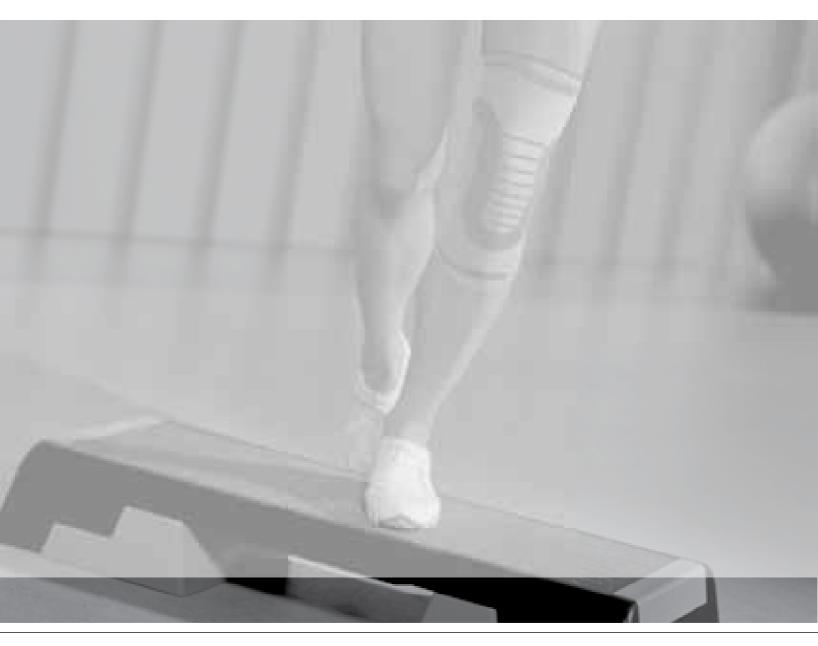
Use bunion shields or pads to cushion the bunion while walking

Use a positioning strap to help correct and prevent further formation

Consult a doctor



NOTES	





QUALITY FOR LIFE