THUASNE

WINGS
FOR YOUR HEALTH

ORTHOPAEDICS
2018

THE GROUP **THUASNE** IS 170 YEARS OLD

THUASNE has celebrated its 170th anniversary last year, restating loyalty, safety and guarantee as values that you can trust.

In this context, we are happy to introduce the range of medical orthopædic devices designed by the Group and, in particular, our latest innovations addressing spinal and knee pathologies.

More than ever, **THUASNE** is offering patients therapeutic solutions to address all their musculoskeletal problems.

As matter of fact, the body can be subject to shocks on a daily basis and articulations are sometimes put under great stress (strains, sprains or fractures...).

The aging of the locomotor system also exposes articulations to degenerative pathologies, such as ostheoarthritis, leading to a reduction of physical mobility.

THUASNE, a dynamic company, is advancing its strategy and developement at a time when the universe of healthcare is in full mutation. More than ever, the Group is ready to accompany health care professionals navigate these changes.

Medical devices too are undergoing a drastic transformation accelerated by the digital age. Today, the patient has become an "actient", eager to participate in her/his own treatment and turning into an actor of her/his own health.

As early as 2016, you, health professionals, have been able to use the THUASNE**care** application to quickly access accurate information and thus propose the most adapted solution to your patient.

Thus, through medical, innovative and technological solutions fostering compliance, **THUASNE** stands as the pioneer of #medweartech.

THUASNE, in 2018, is again giving wings to your health.

Elizabeth Ducottet
Managing Director

Photo credits:
Studio Caterin
Oram Danneuther
Thierry Malty
Jimmy Delpire
Thuasne Fotoflex
Martin Colombet

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These products are regulated medical devices which bear the CE marking.
Only the following products are not medical devices : **Cervi+ pillow** (p. 8, 28) and **Patellar bandage** (p. 58).
Read all instructions before use and seek advice from a qualified healthcare professional.
Update: December 2017 - Manufacturer: THUASNE SAS, 92 LEVALLOIS-PERRET - FRANCE

Argicalm

CLAY PACK

Hot
Pain relief

Cold
Pain relief

Argicalm

REUSABLE THERMIC CLAY PACK

NEW

Relieve your pain
with natural clay!

ANATOMICAL ADAPTABILITY

Easily conformable
Ergonomic pack
5 different sizes

EASY OF USE

Instruction printed on the clay pack
Protective sleeve + self-adhering elastic strap: washable and reusable

PLEASANT TO TOUCH

Technical material PVC: soft and does not hurt
Sleeve with a velvet effect

Hot
Pain relief

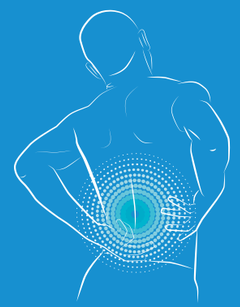
back pain, joints stiffness,
muscles stiffness, contractures,
cramps, neck pain, abdominal pain.

Cold
Pain relief

sprains, tendinitis, tooth ache,
bruises, strains, migraines,
eye pain, arthritis.

Size		Recommended uses	Dimension (cm)
Size **1**	KIDS	Wrist - Elbow - Face	19 x 11
Size **2**		Ankle - Elbow - Knee	26 x 13
Size **3**		Knee - Back - Abdomen	30 x 20
Size **4**		Neck - Shoulder - Back	43 x 17
Size **5**		Back - Abdomen - Knee	43 x 17

BACK



Subject to constant physical stresses, our backs have to work 1,500 times per day on average during our various movements. This complex joint system consists of a set of very different anatomical structures, including vertebrae, discs, muscles, tendons, ligaments and nerves and damage to one or more of these components can cause low back pain.

GOOD TO KNOW

Remember to fit the stays to adjust the belt to the patient's morphlogy

WHICH BELT FOR WHICH PATHOLOGY?

	Common low back pain				Postural and/or back pain problems	Pelvic and sacro-iliac pain
	Common low back pain (acute phase)		Common low back pain (recurrence prevention)			
	Moderate activity, moderate pain	Intense activity, intense pain	Moderate activity, moderate pain	Intense activity, intense pain		
LUMBAR SPINE						
LombaStab		●	●			
LombaSkin	●		●			
LombaTech®	●	●	●			
Lombacross Activity		●		●		
LombaxOriginal			●			
LombaxActivity				●		
Lombacross	●					
Dynacross	●					
Dynacross activity		●				
Ortelcross	●					
Lombapro comfort	●					
DORSO-LUMBAR SPINE						
Lombax High					●	
LombaxDorso					●	
DorsoRigid 35					●	
OsteoMed acute					●	
PREGNANT WOMEN						
LombaMum®®	●	●	●	●		●
Ortel P						●

WHICH BELT FOR WHICH PATHOLOGY?

	Non-displaced rib fractures	Following a colostomy	Weaknesses of the abdominal wall	Inguinal hernia	Hip dysplasia	Hip dislocations
THORACO-ABDOMINAL BELTS						
Cemen	●					
Dynabelt	●		●			
Stomex		●				
TRUSS						
Ortel				●		
HIP ORTHOSES						
HIP-med					●	●
HiplocEvo						●

HOW TO PROVIDE THE RIGHT LUMBAR BELT

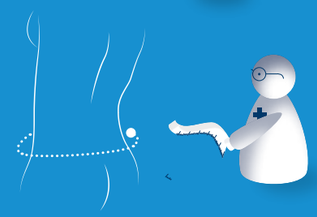
Providing a low back pain sufferer with the right belt involves three essential stages:

1 CONSULTATION

It is necessary to discuss the nature of the pain and the patient's lifestyle to best understand the patient's needs.

2 MEASUREMENTS

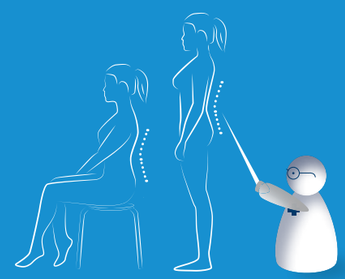
The patient's umbilical perimeter needs to be measured (the waist measurement at the height of the naval), to provide the correct size.



3 FITTING

It is essential to fit the belt in both a seated position and standing up, and to adjust the dorsal stays for the patient to ensure wearing comfort and therefore encourage treatment compliance.

The fitting must be performed by a healthcare professional.



ASSOCIATED ADVICE

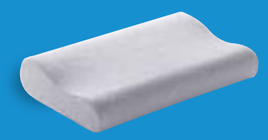
Preventing the chronocity of lower back pain is a major challenge

1 RECOMMEND APPLYING HEAT

by proposing **ARGICALM**, the reusable thermo pack:
> Allows to relax the muscles and relieve pain.

2 IMPROVE YOUR PATIENT'S NIGHT COMFORT,

by proposing the **Cervi+ pillow**:
> For a better distribution of the spine's loads in lying position.



3 LIMIT THE VIBRATIONS' IMPACT ON YOUR ACTIVE AND ATHLETIC PATIENTS,

by proposing **Pedipro** insoles and heels:
> For an even dissipation of mechanical constraints on the lumbar spine.

All THUASNE lumbar support belts have 4 dorsal stays made of conformable spring steel: they enable our belts to properly fulfill their role of elastic support.

BACK

WHICH LUMBAR BELT FOR WHICH PATIENT?

CLASSIC MORPHOLOGY

- **Prolonged sitting position** — **Lomba**Skin — Lightweight and discreet under clothes
- **Prolonged standing position** — **Lomba**Stab — Instant adjustment and pain relief
- **Various activities** — **Lomba**Tech® — Adapts to body movements and pain zone thanks to independant and mobile stays and additional strap
- **Manual workers** — **Lomba**cross Activity — Strengthened support Strong compression

ATYPICAL MORPHOLOGY (wide hips, overweight, size > 1.90 m) — **Lomba**Tech® — Adapts to morphology thanks to patented independant mobile stays

PREGNANT WOMEN — **Lomba**Mum® — Evolving comfort throughout pregnancy *(pelvic, lumbar and sacroiliac pain)*

PERSON WITH A LACK OF STRENGTH — **Lomba**Stab — Easy and effortless lacing

Height 21 or 26 cm ? Identify the patient's most frequent posture and ask them to try the brace in that position *(E.g. a frequently sitting patient will tend to prefer a height of 21 cm).*

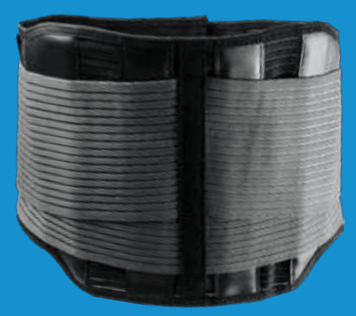
Lumbar belts
reduce pain and allow for rapid return to activity

> EFFICACY OF THE **THUASNE Lomba**cross Activity belt in subacute low back pain. An open, multicentric, and randomized clinical study.

Calmels P et al. Effectiveness of a Lumbar Belt in Subacute Low Back Pain: An Open, Multicentric, and Randomized Clinical Study. Spine. 2009 ; 34(3) : 215-220.

PROVEN !

- A faster and greater **reduction in pain intensity.**
- Faster, more extensive **functional recovery**.
- **Saving of € 200** on treatment costs[2].



Randomised STUDY[1]

(197 patients - 3 months)

- **GROUP 1** (**G1**) :
  102 patients with low back pain treated with **Lomba**cross Activity + medication.
- **GROUP 2** (**G2**) :
  95 patients with low back pain taking their usual treatment without a belt.

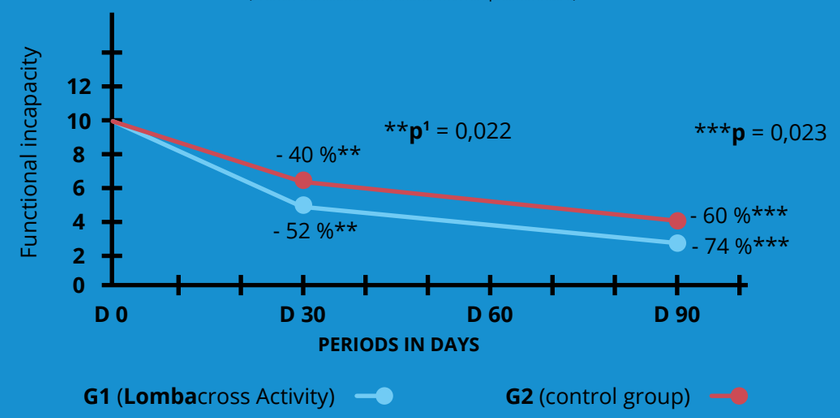
> EFFECTS OF LUMBAR BELTS ON TRUNK MUSCLES: STUDY OF MUSCLE STRENGTH AFTER 21 DAYS OF USE ON SAFE SUBJECTS[3].

LUMBAR BELTS DO NOT HAVE A NEGATIVE EFFECT ON PATIENTS' STRENGTH[3]

1. Calmels P et al. Effectiveness of a Lumbar Belt in Subacute Low Back Pain: An Open, Multicentric, and Randomized Clinical Study. Spine. 2009 ; 34(3) : 215-220.
2. Compared with the estimated cost of treatment in the control group.
3. "Fatemeh Azadinia, PhD candidate, Esmaeil Ebrahimi Takamjani, PhD, Mojtaba Kamyab, PhD, Mohamad Parnianpourc, PhD, Jacek Cholewicki, PhD, Nader Maroufi, PhDn – Spine J. 2016 Dec 14.

Evolution in EIFEL* score between D0 and D90

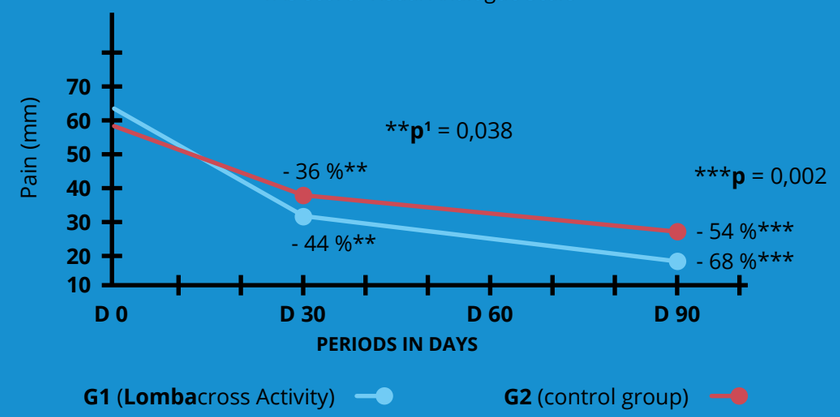
*EIFEL score: Functional Disability Scale for Lower Back Pain Assessment
(French translation of Roland-Morris questionnaire)



Group with belt > Group with usual treatment:
Statistically significant functional improvement from the 1st month for the Group with belt, persisting at D90

Evolution in VAS score** between D0 and D90

*VAS score: Visual Analogue Scale



Group with belt > Group with usual treatment:
Statistically significant reduction in pain from the 1st month for the Group with belt, persisting at D90

1. The minimum significance value for p is 0.05. The lower the p value, the better the significance of the study result.

Special belts for pregnant women help in most **situations of everyday life** to **reduce** the pain

> EFFICIENCY OF **THUASNE LombaMum'®** AND **Ortel P** on pelvic girdle pain on pregnant women[1].

PROVEN !

After, on average, 9 weeks of wearing:

- **Decrease in the intensity of overall pain by 20 mm**
- **Decrease in the intensity of sacroiliac pains by 20 mm**
- **Decrease in the number of women reporting pains during walking or prolonged sitting or standing positions**
- **Decrease in the number of women reporting diffused or deep pain**

Randomized STUDY

(46 pregnant women - 9 weeks on average)

- **GROUP A**:
  38 pregnant women suffering from pelvic pains whom have worn the belt.
  This group was splited in two random groups:

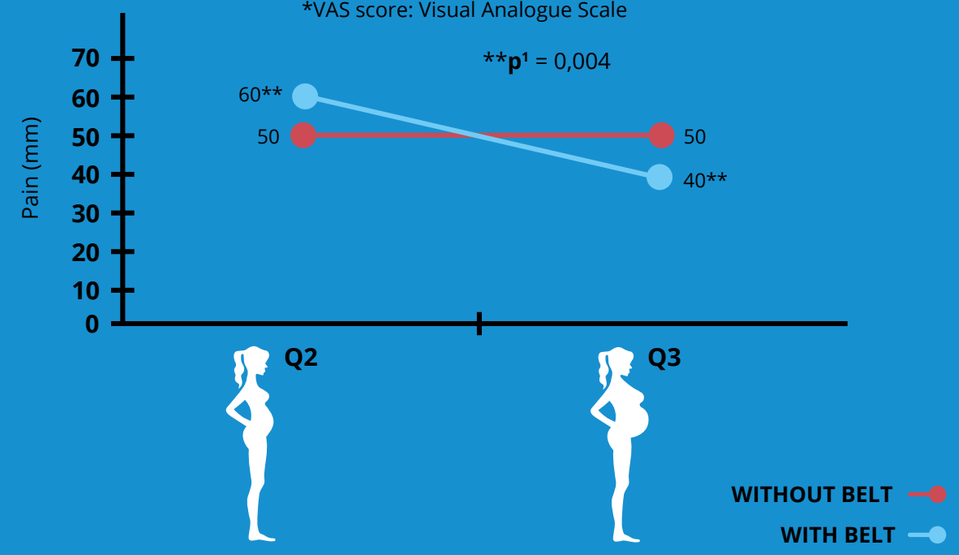
  A1 : Pregnant women having worn the **Ortel** P

  A2 : Pregnant women having worn the **Lomba**Mum'®

- **GROUP B** :
  Pregnant women suffering from pelvic pains whom have not worn any belt

Evolution of the VAS* score between the 2nd (Q2) and 3rd (Q3) quarter of pregnancy

*VAS score: Visual Analogue Scale



Statistically significative decrease of overall pain over time in the group wearing a "belt"

Evolution of the % of women reporting pain in certain situations of everyday life between the 2nd and 3rd quarter of pregnancy

Symptoms	With belt	Without belt
Pain during gate	**- 37 %**	**1 %**
Pain during prolonged standing	**- 42 %**	**- 25 %**
Pain during prolonged sitting	**- 37 %**	**- 25 %**

Statistically significative decrease in % of women reporting pain in everyday situations

1. Bertuit J. et al. J Clin Nurs. 25 mai 2017. DOI.10.1111/jocn.13888. Pregnancy and pelvic girdle pain: analysis of pelvic belt on pain.

The lumbar spine "Essentials"

label observeurdesign 2015

LombaTech®

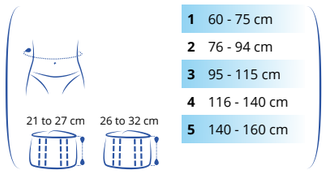
0852 02 (21 cm) - 0851 03 (26 cm)

The lumbar belt that adapts to all body shapes

RECOMMENDED FOR
- Common low back pain in the acute phase affecting the high or low lumbar region, with moderate to intense pain

POINTS TO REMEMBER
- **Precise targeting of pain** thanks to the additional removable strap
- **Can be worn next to the skin all day long** thanks to the Combitex and Coolmax® fabrics
- **Optimised fit for all body shapes** thanks to the patented adjustable back
- Available in waist size **160 cm**

TYPICAL PATIENT
- Patient with a heavy build suffering from low back pain
- Women with large hips
- Low back pain with mixed physical activity



1	60 - 75 cm
2	76 - 94 cm
3	95 - 115 cm
4	116 - 140 cm
5	140 - 160 cm

Find out more

Removable double strapping

Combitex fabric

The lumbar spine "Essentials"

Quick lacing system

étoile observeurdesign 2017

LombaStab

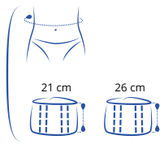
0854 01 (21 cm) - 0853 01 (26 cm)

The lumbar belt that adjusts with precision throughout the day

RECOMMENDED FOR
- Common low back pain in acute phase with moderate to intense lumbar pain
- Recurrent low back pain

POINTS TO REMEMBER
- **Even compression** and **simplified adjustment** thanks to its **easy attachment system** (Quick Lacing System)
- **Enhanced stability** thanks to the elastic properties of the fabric
- **Constant ease and freedom of movement** thanks to its anatomical design with **curved hips and inset abdominal plastron**

TYPICAL PATIENT
- Low back pain sufferer with mixed to significant physical activity, e.g.: mobile or physical professions



1	75 - 95 cm
2	90 - 110 cm
3	105 - 125 cm
4	120 - 140 cm

Find out more

Easy to adjust

LombaSkin

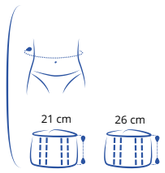
0871 02 (21 cm) - 0870 02 (26 cm)

A discreet, lightweight lumbar belt

RECOMMENDED FOR
- Common low back pain in the acute phase with moderate pain

POINTS TO REMEMBER
- **A second skin effect**, thanks to a seamless design
- **Can be worn next to the skin all day long**, thanks to the Combitex fabric

TYPICAL PATIENT
- Low back pain sufferer with moderate physical activity, eg: sedentary office worker



0	60 - 70 cm
1	71 - 86 cm
2	87 - 102 cm
3	103 - 121 cm
4	122 - 140 cm

Black

Beige

Combitex fabric

The lumbar spine "Essentials"

Lombacross Activity

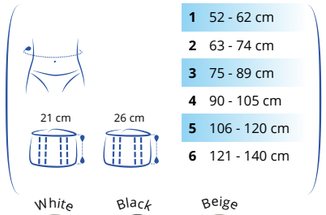
0836 01 (21 cm) - 0835 03 (26 cm)

A lumbar belt offering reinforced support

RECOMMENDED FOR
- Common low back pain in the acute phase with intense lumbar pain

POINTS TO REMEMBER
- **Support adapted to pain**, thanks to the additional reinforced strap
- **Wearer comfort**, thanks to the anatomical cuts to free the hips and ribs
- **Can be worn next to the skin all day long**, thanks to the Combitex fabric

TYPICAL PATIENT
Low back pain and high level of physical activity, for example an order picker



1	52 - 62 cm
2	63 - 74 cm
3	75 - 89 cm
4	90 - 105 cm
5	106 - 120 cm
6	121 - 140 cm

White Black Beige

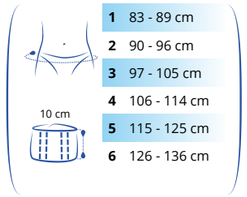
Double strapping

Combitex fabric

Ortel P

2740 01

- **Pelvic belt** for pelvic support in cases of sacro-iliac or symphyseal instability pains
- **Extra-strong support** thanks to its elasticated fabric
- **Adjustable support** thanks to its additional tightening strap
- **Wearer comfort** thanks to the extra-soft terry lining



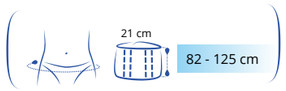
1	83 - 89 cm
2	90 - 96 cm
3	97 - 105 cm
4	106 - 114 cm
5	115 - 125 cm
6	126 - 136 cm

LombaMum'®

0805 01

JANUS 2014 DE LA SANTÉ

- **Maternity lumbar belt**, for low back, pelvic and sacro-iliac pain in pregnant women
- **Adjustable support** thanks to the additional straps
- **Size adjustable to stage of pregnancy**, thanks to the 2 abdominal support bands
- **Wearer comfort**, thanks to the bamboo fibre lining



Double strapping

* See clinical study p. 12-13

OTHER LUMBAR BELTS

*The lumbar spine "**Essentials**"*

LombaxOriginal

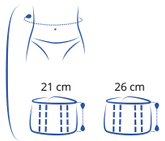
0824 03

The reference belt for occasional use

RECOMMENDED FOR
- Treating recurrent conditions during daily activities which out pressure on the lower back

POINTS TO REMEMBER
- **High elastic compression and strength** thanks to the Lombax fabric
- **Easy to put on** thanks to the two part closure
- **Increased comfort and breathability** thanks to the **3D weave** dorsal plastron

TYPICAL PATIENT
- Osteoarthritis patient with risk of low back pain, e.g.: active aged person



1	60 - 85 cm
2	86 - 112 cm
3	113 - 140 cm

*The lumbar spine "**Alternatives**"*

LombaxActivity

0850 02

The belt for professionals exposed to stressful postures

RECOMMENDED FOR
- Treating recurrent conditions during professional activities which put pressure on the lumbar region

POINTS TO REMEMBER
- **Ideal support for use during physical effort** thanks to its additional strengthened strap
- **High elastic compression and strength** from the Lombax fabric
- **Practical to use** in a professional environment thanks to its removable shoulder straps

TYPICAL PATIENT
- Labourer, farmer, removals agent

1	76 - 90 cm
2	91 - 110 cm
3	111 - 125 cm

Double strapping

*The lumbar spine "**Alternatives**"*

Lombacross

0830 04 - 0830 05

- **Functional muscular simulation** at the rear thanks to its crossed elasticated bands
- **Can be worn next to the skin all day long** thanks to the Combitex fabric

0830 04

- **Accentuated sides and rear heights**

Black Beige

0830 05

- **Anatomical cut** to free up the hips and the ribs
- **Increased dorsal comfort** with its velvet-foam combination

White

1	52 - 62 cm
2	63 - 74 cm
3	75 - 89 cm
4	90 - 105 cm
5	106 - 120 cm
6	121 - 140 cm

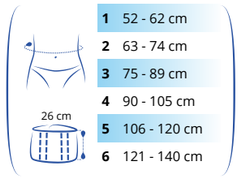
Combitex fabric

*The lumbar spine "**Alternatives**"*

Dynacross

7680 05

- **Lombar-abdominal support belt**
- **Flexible support** thanks to its flexible posterior reinforcement
- **Functional muscular simulation** at the rear thanks to its crossed elasticated bands
- **Can be worn next to the skin all day long** thanks to the Combitex fabric



1	52 - 62 cm
2	63 - 74 cm
3	75 - 89 cm
4	90 - 105 cm
5	106 - 120 cm
6	121 - 140 cm

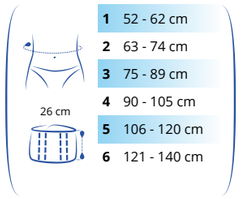
White Beige

Combitex fabric

Dynacross activity

7685 01

- **Reinforced lombar-abdominal support belt**
- **Flexible support** thanks to its flexible posterior reinforcement
- **Functional muscular simulation** at the rear thanks to its crossed elasticated bands
- **Ideal support for use during physical effort** thanks to its additional strengthened strap
- **Can be worn next to the skin all day long** thanks to the Combitex fabric



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2	63 - 74 cm
3	75 - 89 cm
4	90 - 105 cm
5	106 - 120 cm
6	121 - 140 cm

White Beige

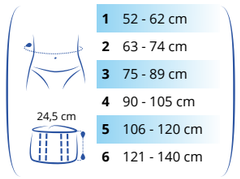
Double strapping

Combitex fabric

Ortelcross

4050 01

- **Functional lumbar belt**
- **Flexible support** thanks to its flexible posterior reinforcement
- **Functional muscular simulation** at the rear thanks to its crossed elasticated bands
- **Extra comfort** thanks to its aerated elastic fabric

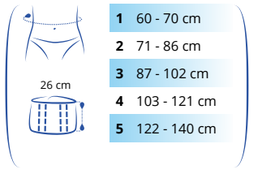


1	52 - 62 cm
2	63 - 74 cm
3	75 - 89 cm
4	90 - 105 cm
5	106 - 120 cm
6	121 - 140 cm

Lombapro comfort

0801 01

- **Progressive support** thanks to its silicon double-reinforced dorsal plate
- **Stress-relieving effect** thanks to its incorporated massage pegs
- **Aerated weave** providing two levels of differentiated support
- **Dual hand-loop** system



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4	103 - 121 cm
5	122 - 140 cm

Women		Men
White	Grey	Grey

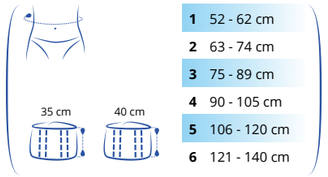
BELTS

THE DORSAL SPINE "SPECIALS"

Lombax High

0843 03

- **Dorsal-lumbar support** thanks to its 35 cm to 40 cm dorsal height
- **Adjustable tightening** thanks to its additional rear-front related straps
- **High elastic compression** thanks to the Lombax fabric
- **Easy to put on** thanks to the two part rear closure



1	52 - 62 cm
2	63 - 74 cm
3	75 - 89 cm
4	90 - 105 cm
5	106 - 120 cm
6	121 - 140 cm

Double strapping

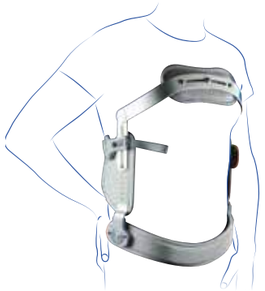
LombaxDorso

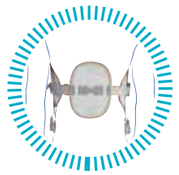
0845 02

- **Posture-correcting dorsal-lumbar corset**
- **Effective adjustment to the subject's morphology** thanks to the back support section that adapts to the spinal curve with adjustable height
- Adjustable **tightening** thanks to its additional rear-front related straps
- **High elastic compression** thanks to the Lombax fabric
- **Easy to fit** thanks to the "backpack"-style straps
- **Easy to wear** thanks to the sub-axillary cushioning

1	52 - 62 cm
2	63 - 74 cm
3	75 - 89 cm
4	90 - 105 cm
5	106 - 120 cm
6	121 - 140 cm

Double strapping





DorsoRigid 35

0890 02

- **Immobilising spinal hyper-extension corset**
- Resting and static posture correction of the spine due to a stabilising and immobilising action, based on three pressure points
- Fast, ergonomic fitting
- Water-resistant

ORDER IN GERMANY

OsteoMed acute

T548803

- **Osteoporosis brace to relieve and correct th lumbar/thoracic spine**
- Fits the patient's shape perfectly
- Adjustable back straightener that can be adapted to the patient's lordosis
- Ergonomic hand loop
- Additional adjustable straps that can be cut to size

S	60 - 75 cm	34 - 42 cm
MS	75 - 90 cm	34 - 41 cm
M	75 - 90 cm	36 - 46 cm
LS	90 - 105 cm	36 - 46 cm
L	90 - 105 cm	40 - 52 cm
XL	105 - 115 cm	42 - 54 cm

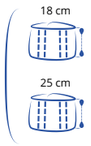
* measured from the proximal side of the corpus sterni to the upper edge of the pubic bone (tuberculum pubicum)

Single size

Cemen

2800 01

- **Thoracic bandage belt for fractured ribs**
- High support **elastic fabric**
- Velcro closure



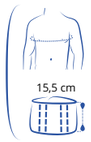
S	18 cm x 1,25 m
M	25 cm x 1,25 m
L	18 cm x 2,50 m
XL	18 cm x 2,50 m

Cemen

2900 01

- **Thoracic belt**
- Resistant elastic fabric for thoracic support

Models: men - women

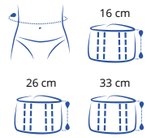


1	60 - 75 cm
2	76 - 90 cm
3	91 - 105 cm
4	106 - 120 cm

Dynabelt

7010 07 (16 cm) - 7010 08 (26 cm) - 7010 09 (33 cm)

- **Thoracic or abdominal support belt**
- **Can be worn next to the skin all day long** thanks to the Combitex fabric
- Removable support reinforcements
- Can be sterilised in an autoclave



1	66 - 80 cm
2	81 - 90 cm
3	91 - 100 cm
4	101 - 120 cm
5	121 - 140 cm
6*	141 - 160 cm

Combitex fabric

* only for the 33 cm belt

Stomex

2700 02

- **Abdominal support belt for stoma patients**
- **Front zone in ladder-proof fabric**, allows drains and colostomy bags to be passed through

1	60 - 70 cm
2	71 - 85 cm
3	86 - 100 cm
4	101 - 120 cm

Truss

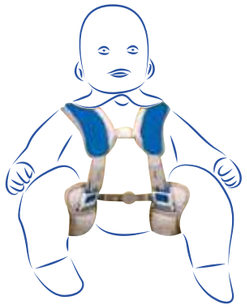
Ortel

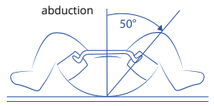
2730 01 : **unilateral** (right and left adjustable)
2720 01 : **bilatéral**

- **Truss** for reducible inguinal hernia
- **Right/left adjustment** thanks to its unique buckle system
- **Comfort and effectiveness** thanks to its removable and repositionable silicon pads
- **Available in unilateral and bilateral versions**

1	75 - 85 cm
2	86 - 97 cm
3	98 - 110 cm
4	111 - 125 cm

Hip orthoses





ORDER IN GERMANY

HIP-med

T515501

- **Treatment of hip dysplasia and dislocation** in newborn babies and infants
- Lower limb resting position at between 90° and 100°
- Possibility of continuous adjustment
- Does not disrupt the blood circulation
- Removable washable lining around the neck for better contact
- Leg shells with removable, washable covers
- **Tool-free adjustment** of leg spread

	Thigh shell spread	Thigh circumference
XXS premature babies	11,5 - 14 cm	12 - 16 cm
XS newborn babies	13 - 16 cm	12 - 16 cm
S a few weeks	13 - 18 cm	15 - 18 cm
M a few months	14,5 - 20,5 cm	17 - 22 cm
L several months	20 - 27 cm	20 - 25 cm

ORDER IN GERMANY

HiplocEvo

T540502

- Reliable prevention of dislocations without impeding day-to-day movements
- **Guiding of hip** due to an integrated splint at the pelvis and knee
- **Possibility of limiting** flexion and extension **movements**

2 versions: left or right

Single size	80 - 140 cm

NECK

The neck is made up of 7 vertebrae forming the cervical spine. It plays the mechanical role of supporting the head.
Crossed by the spinal cord - the body's sensory-motor command centre - it is a highly sensitive zone. The main neck problems are related to injury (sprain, torticollis) or degenerative conditions (arthritis).

GOOD TO KNOW

Don't forget to have the collar tried on to check if it is the correct size

WHICH CERVICAL COLLAR FOR WHICH PATHOLOGY?

CERVICAL COLLARS	Torticollis	Cervical arthritis	Cervico-brachial neuralgia	Mild sprain	Moderate sprain	Severe sprain	Non-displaced fracture
Ortel C1 classic	●						
Ortel C1 anatomic	●						
Ortel C2 plus	●	●	●	●			
Ortel C3 classic			●		●		
Ortel C3			●		●		
Ortel C4 rigid						●	●
Ortel C4 vario		●				●	●
NEW **Eclipse**		●				●	●

ACTION PRINCIPLE
OF THE CERVICAL COLLAR

Cervical collars **immobilise the cervical spine**, limiting flexion, extension and rotation movements. The degree of immobilisation varies depending on the rigidity of the collar.

They also play a **proprioceptive role**, reinforcing sensations from the cervical spine, as well as an **analgesic role** due to their thermal action combined with immobilisation.

ASSOCIATED ADVICE

1 PREVENT THE CHRONIFICATION **OF CERVICAL PAINS** of your patients through the prescription of the **Cervi+** pillow:
> For better distribution of the spinal load in the horizontal position.

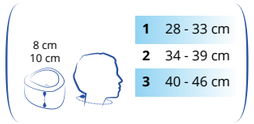
2 **REDUCE THE IMPACT OF VIBRATION ON YOUR ACTIVE AND SPORTING PATIENTS,** by suggesting **Pedi**pro **insoles and heel inserts**:
> For an even dissipation of mechanical constraints on the lumbar spine.

WHICH CERVICAL COLLAR FOR WHICH INDICATION?

REQUIRED ACTION **Which?**	REQUIRED SUPPORT **What level?**		INDICATION **Which?**	ITEM **Which?**
PAIN-RELIEVING AND RELAXING EFFECT	LIGHT	**Flexible structure** Foam	**Torticollis**	**Ortel** C1 anatomic
	MODERATE	**Semi-rigid structure** Foam + plastic	**Minimal lesions** New arthritic conditions Mild sprains	**Ortel** C2 plus
FLEXION LIMITATION	FIRM	**Rigid structure + chin-support**	**Moderate lesions** Stable moderate sprains Cervico-brachial neuralgia	**Ortel** C3
COMPLETE MOBILITY RESTRICTION	REINFORCED	**Rigid structure + 4 supports** *	**Severe lesions** Non-displaced trauma Severe cervical arthritis	**Ortel** C4 vario

* Chin, sternal, occipital and dorsal supports

Flexible collars



1	28 - 33 cm
2	34 - 39 cm
3	40 - 46 cm

Ortel C1 classic

2393 02

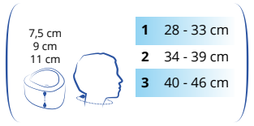
- **Analgesic support** for the cervical spine thanks to **high quality foam** and **precise Velcro fitting**
- **Removable and washable** comfortable cover
- Recommended for use during short periods

Ortel C1 anatomic

2394 02

- **Analgesic support** for the cervical spine thanks to **its compact support foam** (moderate density)
- **Anatomical shape** with rounded edges
- Removable and washable comfortable cover
- Precise Velcro fitting

Exists in a junior version



1	28 - 33 cm
2	34 - 39 cm
3	40 - 46 cm

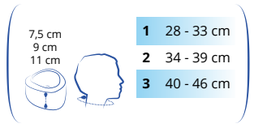
Beige Navy blue

Semi-rigid collars

Ortel C2 plus

2392 04

- **Analgesic support** for the cervical spine thanks to a **semi-rigid internal structure** covered in compact supporting foam (high density)
- **Anatomical shape** with rounded edges
- Removable and washable comfortable cover
- Precise adjustment using velcro tabs



1	28 - 33 cm
2	34 - 39 cm
3	40 - 46 cm

Beige Navy blue

Rigid collars

Ortel C3 2391 02
Ortel C3 classic

2390 01

- **Reinforced support** of the cervical spine through its **rigid perforated polyethylene structure**
- **Padding of the edges** in contact with the skin and perforations for better aeration and comfort
- **Adjustable height** from 9 to 13 cm, **precise and quick morphological Velcro adjustment**
- X-ray transparent

Ortel C3 classic
Adjustable height, rigid collar without chin support

Ortel C4 rigid

2396 03

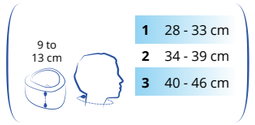
- **Rigid collar with 4 supports**
- **Firm support** for the cervical spine thanks to its 2 rigid anatomically moulded shells in hypo-allergenic polyethylene foam
- The front shell provides sternal and chin support, the rear shell provides occipital and dorsal support
- Tracheal opening
- X-ray transparent

ORDER IN GERMANY

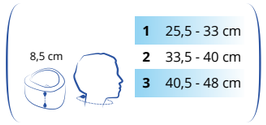
Ortel C4 vario

T492802

- **Rigid collar with 4 height-adjustable supports**
- **Reinforced support** for the cervical spine thanks to 2 rigid shells. The occipital, chin, sternal and dorsal supports enable total immobilisation
- **Height adjustable** from 9 to 16 cm for an **anatomical fit** and **modular immobilisation** (with adjustment of flexion)
- Comfort guaranteed by the removable and washable foam inserts
- Tracheal opening
- X-ray transparent



1	28 - 33 cm
2	34 - 39 cm
3	40 - 46 cm



1	25,5 - 33 cm
2	33,5 - 40 cm
3	40,5 - 48 cm

31 - 48 cm

NEW

Eclipse

ORDER IN GERMANY

U35001

Universal Cervical Collar

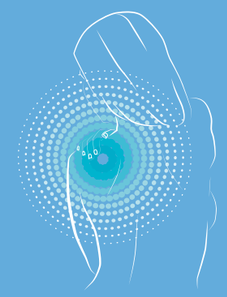
Adjustability
- Effortless chin height adjustment for easy fitting and maximum compliance
- Fifteen height settings for precise positioning
- Quick-Snap Fitting Disks ensure proper patient application

Features
- Anatomically molded, structurally reinforced frame for superior strength and fit
- Moisture wicking, cloth lined, open cell foam liner for comfort and breathability
- Large tracheal opening for airway access

Universal sizing
- One size fits most for reduced inventory
- Wide back panel for neck circumference greater than 48 cm

Single size

SHOULDER



The shoulder is a complex structure made up of 2 joints (the glenohumeral joint and the acromioclavicular joint) and 4 muscles (converging to form the rotator cuff). Shoulder problems, caused by injury or wear and tear, can affect the joints, tendons or nerves.

WHICH SOLUTION FOR WHICH PATHOLOGY?

	TRAUMA				ARTICULATION PATHOLOGIES			POST-OPERATIVE
	Humerus head fracture	Scapula fracture	Clavicle fracture	Elbow trauma	Acromio-clavicular dislocation	Glenohumeral dislocation	Rotator cuff injury without surgery	Post-operative immobilisation
IMMOBILISATION VESTS								
ImmoClassic	●	●		●	●	●	●	
Immo	●				●	●	●	
ImmoVest	●	●		●	●	●	●	●
Townsend® Shoulder Sling								●
CLAVICULAR STRAPS								
Ligaflex®			●					

TYPICAL PATIENT **Which profile?**	PRESCRIPTION **Which?**	INDICATION **Which?**	ITEM **Which?**
ADULT Shoulder width > 34 cm	Glenohumeral immobilisation vest Elbow to body immobilisation	**Trauma** to the shoulder and elbow	**Immo**Classic; **Immo**; **Immo**Vest
ADULT Shoulder width > 34 cm	Shoulder and elbow immobilisation with 30° abduction pad	Post-operative **immobilisation**	**Townsend**® Shoulder Sling
ADULT Shoulder width > 34 cm	Shoulder slings	**Fracture** to the clavicle	**Ligaflex**®
CHILD Shoulder width < 34 cm	Shoulder slings	**Fracture** to the clavicle	**Ligaflex**® junior

SHOULDER SLINGS

Glenohumeral immobilisation vests

ORDER IN GERMANY

TOWNSEND THUASNE USA

Townsend® Shoulder Sling

U05401

- Immobilisation of the shoulder with an abduction of 30° thanks to its anatomically formed pad
- Improved comfort thanks to the fabric neck-strap and padded straps
- Exercise ball included

S/M	< 36 cm
L/XL	> 36 cm

ImmoClassic

2445 01

- **Immobilisation of the shoulder and elbow** thanks to the **sleeve** and the additional **adjustable strap**
- **Adjustable protective foam pads** for optimum shoulder and neck comfort
- Easy-fitting for the patient due to the velcro on the abdominal strap

1	50 - 71 cm
2	72 - 94 cm
3	95 - 117 cm
4	118 - 140 cm

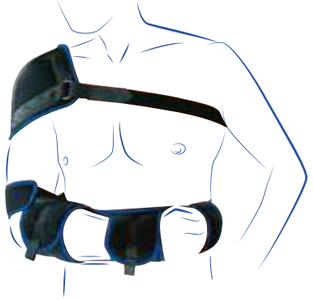
Find out more

ImmoVest

2441 02

- Immobilisation of the shoulder and elbow to the body through its **3 strap action**
- **High coverage vest** for better protection during daily use
- Extra comfort thanks to its **breathable fabric**, **shoulder padding** and **anatomical form**
- Easy to fit with numbered colour-coded fitting system

HEIGHT	BUILD
< 1,70 m	size 1
1,70 - 1,80 m	size 1 / size 2
> 1,80 m	size 2



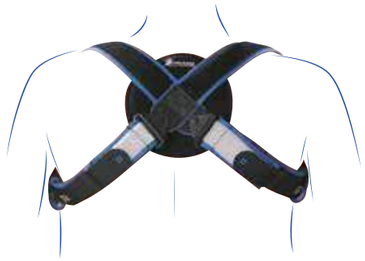
Immo

2440 01

- **Immobilisation of the elbow to the body** through its **reinforced belt** and **support bands**
- Better comfort thanks to the belt that supports the arm, **no pressure on the shoulder and neck**
- Easy for the patient to put on with its Velcro attachment

1	50 - 71 cm
2	72 - 94 cm
3	95 - 117 cm
4	118 - 140 cm

Clavicular straps



Ligaflex® clavicular straps

24500229900399

- **Secure immobilisation** thanks to a cutting system for **adjustment to the patient's size**
- **Dorsal foam anchoring pad** for optimum comfort
- Velcro fitting system and buckle fastening

Exists in a junior version

Single size

WRIST, THUMB & ELBOW

The wrist is made up of several joints giving it a high level of flexion / extension and abduction / adduction mobility.
The most common cause of wrist injury is a fall or twist, which can cause a mild or severe sprain, fracture or dislocation. The wrist can also suffer from osteoarthritis, a degenerative disease that primarily affects the thumb (basal thumb arthritis).

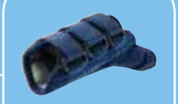
GOOD TO KNOW

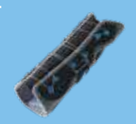
Remember to adjust the brace's stays to fit the patient's morphology

	LIGAMENT AND TENDON RELATED TRAUMA / INJURY				OSTEO-NEURAL INJURIES				POST-OPERATIVE AND RETURN TO WORK	
	Light to moderate sprain	Severe sprain	De Quervain's disease	Wrist tendinitis	Carpal tunnel without surgery	Rhizarthrosis	Osteoarthritis of the wrist	Fracture	Post-operative immobilisation	Resumption of activity
WRISTS-THUMB										
Ligaflex® pro +		●	●	●		●		●	●	
Ligaflex® Manu		●	●			●		●	●	
WRISTS										
Ligaflex® Action	●			●			●			●
Ligaflex® pro	●			●	●		●		●	
Ligaflex® Classic	●			●	●				●	
Ligaflex® Classic open	●			●	●				●	
Ligaflex® Immo	●			●					●	
Dynastab® Dual				●	●					●
THUMB SPLINTS										
Ligaflex® **Rhizo**	●					●				
Rhizo-Pro	●									
PollexMed	●					●				
FINGER										
Distal phalanx splint			Mallet finger ●							

	LIGAMENT AND TENDON RELATED TRAUMA / INJURY		POST-OPERATIVE
	Epicondylitis	Median epicondylitis	
ELBOW BRACES			
Silistab® Epi	●	●	
Epi-Med Pro master	●	●	
Epi-Med	●	●	
Condylex	●	●	
ROM elbow brace			●

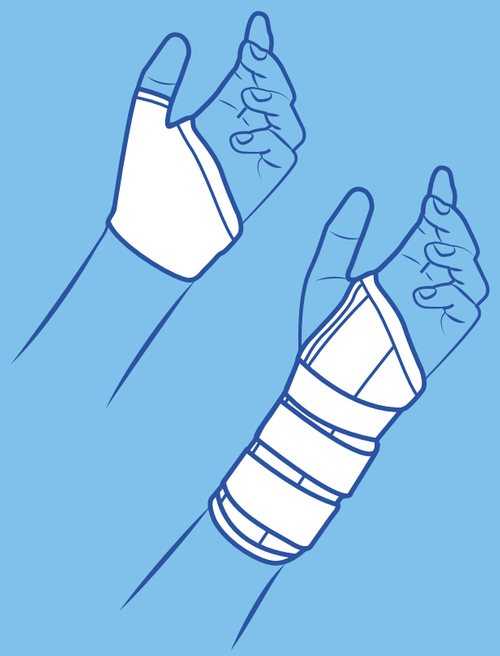
WHICH BRACE FOR WHICH INDICATION?

TYPICAL PATIENT **Which profile?**	PRESCRIPTION **Which?**	INDICATION **Which?**	ITEM **Which?**
CHILD (< 1,40 m)	**WRIST-THUMB**	**Epiphyseal** and **tendon injuries** of the wrist or thumb **Fracture** of the scaphoid	**Manu**rhizo junior
	WRIST	**Epiphyseal injury** of the wrist **Tendon diseases** and **tendon injuries** of the wrist	 **Manu**Immo® junior

TYPICAL PATIENT **Which profile?**	PRESCRIPTION **Which?**	INDICATION **Which?**	ITEM **Which?**
ADULT (> 1,40 m)	**THUMB**	**Rhizarthrosis**	Ligaflex® **Rhizo**
		Sprained thumb	**Rhizo**-Pro
	WRIST-THUMB	**Trauma** of the wrist and/or thumb **Tendinitis**	**Ligaflex**® pro+
	WRIST	**Immobilisation** Traumatology Severe tendinitis Carpal tunnel syndrome (post surgery) — **Without** œdema	 **Ligaflex**® pro
		Immobilisation Traumatology Severe tendinitis Carpal tunnel syndrome (post surgery) — **With** œdema	**Ligaflex**® Classic open
		After immobilisation **Resumption of activity** Osteoarthritis Tendinitis	**Ligaflex**® Action
	SPECIFIC IMMOBILISATION REQUIREMENTS 45° flexion Cubital inclination		**Ligaflex**® Immo

ACTION PRINCIPLE

OF THE IMMOBILISATION SPLINTS
for the wrist, the thumb and/or wrist-thumb



The immobilisation splint puts one or several articulations in the **resting position**.
It aims to:

- **Limit the pain.**
- **Stabilize the articulation(s)** in the desired therapeutic position whil **allowing mobilisation** of adjacent areas.
- **Enable consolidation** and **healing**

WRIST AND THUMB SPLINTS

Ligaflex® pro +

2434 02

- **Easy tightening system** (Quick Lacing System technology) for **simplified and homogeneous adjustement**
- **Rigorous support of** wrist and thumb thanks to **two anatomic** and conformable **stays**
- Soft **protection jersey**, **3D antibacterial knit**, light and wicking for better moisture evacuation, adapted to extended wearing

2 models : right and left

1	13 - 15 cm
2	15,5 - 17,5 cm
3	18 - 20 cm
4	20,5 - 23 cm

Find out more

Ligaflex® **Manu**

2430 02

- **Firm support for the thumb and wrist** thanks to the 2 conformable, **anatomical stays** (palm and thumb column)
- **Antibacterial-treated 3D knit**, lightweight and breathable for effective moisture-wicking. Suitable for long-term wear
- 2-in1 straps for **an even support**

2 models: right and left
Exists in a junior version

1	13 - 15 cm
2	15,5 - 17,5 cm
3	18 - 20 cm
4	20,5 - 23 cm

Black Beige

Wrist braces

Ligaflex® Classic

2435 02

- **Firm wrist support** thanks to the **anatomically shaped** and conformable **palm reinforcement**
- **Antibacterial-treated 3D weave**, lightweight and breathable for effective moisture-wicking, suitable for long-term wear.
- 2-in1 straps for **an even support**

2 models: right and left

Exists in a junior version

Ligaflex® Classic open 2437 02

- **Fully opening for easy fitting and removal**, more appropriate in the event of œdema. Particularly indicated in post-traumatic situations
- **Firm wrist support** thanks to the conformable **palm stay**
- **Antibacterial-treated 3D knit**, lightweight and breathable for effective moisture-wicking. Suitable for long-term wear

Ambidextrous model

Dynastab® Dual

7040 02

- Wrist support thanks to anatomically shaped palm and back of the hand stays
- Antibacterial-treated 3D weave, lightweight and breathable for effective moisture-wicking

Ambidextrous model

1	13 - 15 cm
2	15,5 - 17,5 cm
3	18 - 20 cm
4	20,5 - 23 cm

Black Beige

1	13 - 17 cm
2	17 - 23 cm

Black Beige

1	13 - 16 cm
2	16,5 - 19,5 cm
3	20 - 23 cm

Ligaflex® pro

2433 02

- **Easy tightening system** (Quick Lacing System technology) for **simplified and homogeneous adjustement**
- **Rigorous support of** wrist thanks to **anatomic** and conformable **palmar stay**
- Soft **protection jersey**, **3D antibacterial knit**, light and wicking for better moisture evacuation, adapted to extended wearing

Ambidextrous model

1	13 - 17 cm
2	17 - 23 cm

Find out more

WRIST BRACES

Ligaflex® Action 2436 02

- **Anatomic** and elastic **knit** enhancing compression and **increasing the proprioceptive effect**
- **Evolutive support** thanks to the conformable and removable palmar stay, possibility to limit wrist movements depending on the need
- **Modular compression** and possibility to adjust the pressure applied with the additional removable elastic strap

2 models: right and left

1	14 - 15 cm
2	15 - 16 cm
3	16 - 17 cm
4	17 - 18 cm
5	18 - 19 cm
6	19 - 20 cm

Find out more

Ligaflex® Immo 7080 02

- **Firm wrist support in extension** thanks to **2 anatomically-shaped stays at the palm and back of the hand**. Radio-transparent, conformable stays
- **Long length** for optimum immobilisation
- **Progressive brace with additional reinforcement kit**. Can also immobilise:
  - during flexing
  - during flexing and cubital inclination
- **Antibacterial-treated 3D knit**, lightweight and breathable for effective moisture-wicking. Suitable for long-term wear

2 models: right and left

1	13 - 15 cm
2	15,5 - 17,5 cm
3	18 - 20 cm
4	20,5 - 23 cm

Stay kit Ligaflex® Immo

7080 90

Conformable stays

2 models: right and left

Thumb splints

Rhizo-Pro

T480273

- **Immobilisation of the thumb column**
- Perforated wire frame with soft breathable lining and padding around the articulations

Ambidextrous model

1	12 - 18,5 cm
2	16,5 - 22 cm

PollexMed

T480212 (50 mm wide strap)
T640202 (lining - single size)

- **Immobilisation of the metacarpo-phalangeal and carpo-metacarpal articulations of the thumb**
- **Thermomouldable** and anatomical shape for better morphological adjustment

2 models: right and left

XS	12 - 14 cm	1,7 cm
S	14 - 16,5 cm	2,0 cm
M	16,5 - 18,5 cm	2,2 cm
L	18,5 - 20,5 cm	2,4 cm
XL	20,5 - 22 cm	2,6 cm

Finger splint

Distal phalanx splint

7084 02

- **Immobilisation of the last two phalanxes**, extension of the distal articulation
- Perforated polypropylene splint allowing the immobilised finger to breathe

Sold in bags of 6 splints

1	4,7 cm
2	5,0 cm
3	5,5 cm
4	6,1 cm
5	6,4 cm
5,5	7,1 cm
6	7,5 cm
7	8,3 cm

Ligaflex® Rhizo

7090 02

- **Immobilisation of the thumb in a painless position by a patented wire frame** in the thumb web space
- **Opening at the thumb column** to prevent any pressure on the painful zone
- Particularly suitable for basal thumb arthritis
- **Preserves grip movements and maintains the wrist's range of motion**
- **Antibacterial-treated 3D knit**, lightweight and breathable for effective moisture-wicking. Suitable for long-term wear

2 models: right and left

Find out more

1	13 - 17 cm
2	17 - 23 cm

ELBOW BRACES AND TENNIS ELBOW ARMBANDS

Elbow braces

Silistab® Epi

2305 02

- **Relief** guaranteed by the **silicone inserts with a massage effect** and the **compressive knit** providing a **reinforced proprioceptive effect**
- Adjustable compression thanks to the additional removable strap
- **Anatomically-shaped knit** with **comfort zones** at the elbow crease and patented pull tabs

1	19 - 22 cm
2	22 - 25 cm
3	25 - 28 cm
4	28 - 31 cm
5	31 - 34 cm
6	34 - 37 cm

Find out more

Tennis-elbow armbands

ORDER IN GERMANY

Epi-Med Pro master T350801

- **Rigid armband with double pressure targets** thanks to the silicon inserts
- Additional inserts (Flexi-Pads) available to increase pressure if required
- Adjusted with the Velcro fastening, compression area indication for easier fitting

XS	22 - 23 cm
S	24 - 25 cm
M	26 - 27 cm
L	28 - 30 cm
XL	31 - 34 cm

ORDER IN GERMANY

Epi-Med

T480013

- **Rigid arm band** with **dual targeted pressure** with comfortable felt inserts
- Easy adjustment by velcro fastening tabs

XS	22 - 23 cm
S	24 - 25 cm
M	26 - 27 cm
L	28 - 30 cm
XL	31 - 34 cm

Condylex

7007 02

- **Pressure adjustment** thanks to the Velcro fastening with tightening strap
- Vibration absorbing inner foam

1	22 - 26 cm
2	27 - 32 cm

Hinged post-op elbow brace

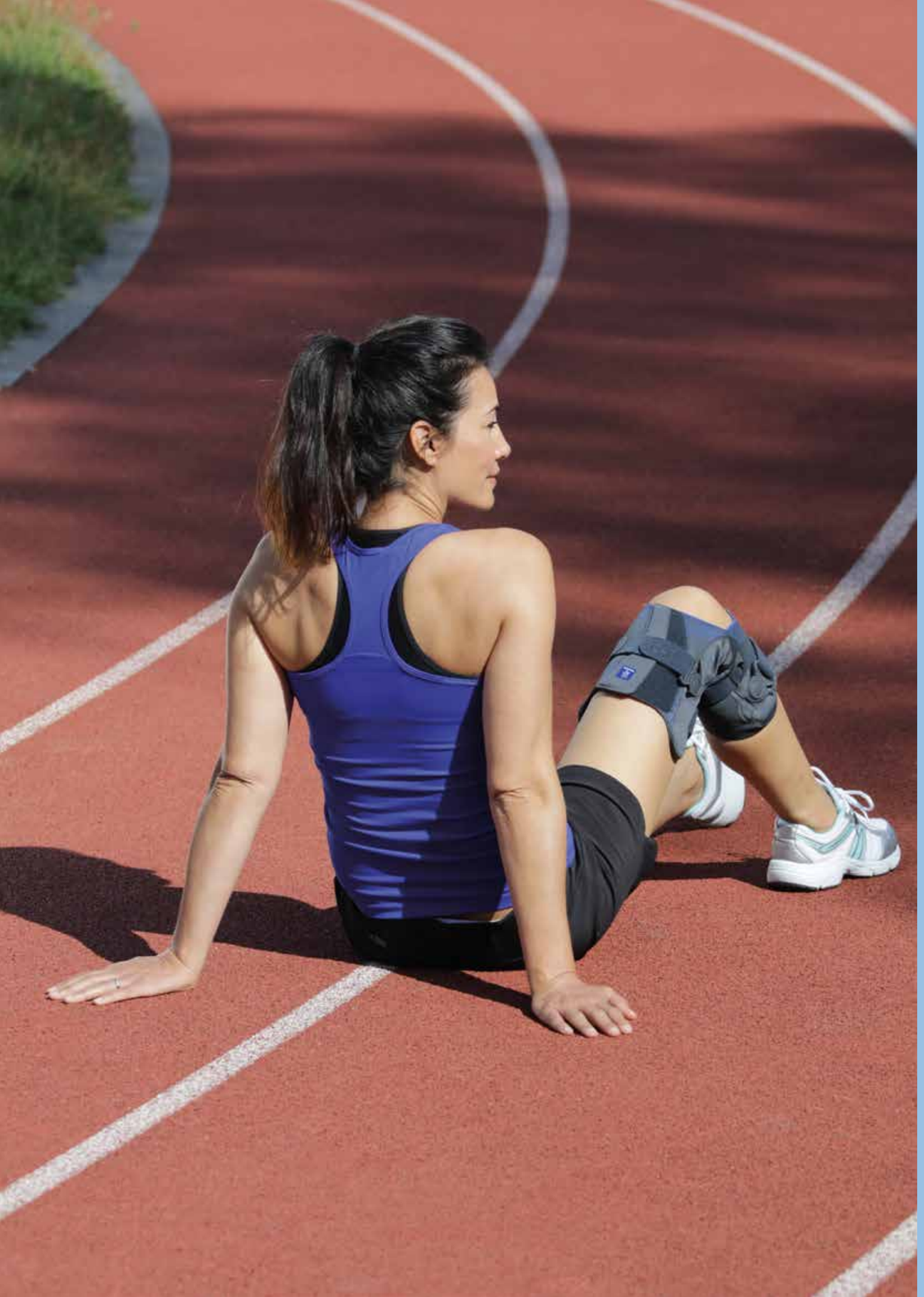
ROM elbow brace

U05301

- Adjustable ROM hinge
- Tool-free length-adjustable system (Snaplock system)
- Rigid uprights that can be adapted to the patient's shape
- Breathable fabrics (BreezePads)

TOWNSEND THUASNE USA

S/M	< 20 cm
L/XL	> 20 cm



KNEE

The knee is a complex system made up of bones, ligaments, tendons and cartilage structures enabling us to assume a static position and walk. Its mobility involves a combination of rolling and sliding movements.
Most knee problems are caused by injury (sprain or cruciate ligament rupture) or degenerative conditions (osteoarthritis).

GOOD TO KNOW

Remember to adjust the knee brace's stays to fit the patient's morphology

WHICH SOLUTION FOR WHICH PATHOLOGY?

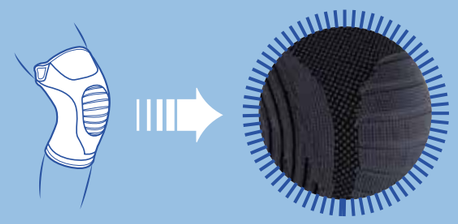
	TRAUMA INJURIES					PREVENTION AND RE-EDUCATION / RETURN TO WORK				CHRONIC CONDITIONS					
	Mild sprain	Moderate sprain	Severe sprain	Knee immobilisation	Patellar dislocation	Post-operative re-education	Resumption of activity	Resumption of sporting activity	Proprioception	Patellar tendon disease	Patellar syndromes	Mild osteoarthritis	Moderate to severe osteoarthritis	Chronic laxity	Severe chronic laxity
OFF-LOADING KNEE BRACES															
RebelReliever®													●		
Dynamic Reliever®													●		
NEW **Action** Reliever												●	●		
FLEXIBLE KNEE BRACES															
GenuSoft									●						
GenuAction									●						
GenuExtrem							●		●						
Ligastrap® **Genu**	●						●	●							
PATELLAR KNEE BRACES															
GenuPro activ					●					●		●			
GenuPro comfort					●					●		●			
Silistab® **Genu**					●					●		●			
Patellar bandage										●					
PATELLO-FEMORAL KNEE BRACE															
NEW **Patella**Reliever					●						●		●		
LIGAMENT KNEE BRACES															
Genu Ligaflex®		●						●						●	
Genu Dynastab®	●	●												●	
Genu Ligaflex® ROM			●			●									
GenuControl			●			●		●							
Rebel® Standard			●			●		●							
Rebel® Pro			●			●		●							
Rebel® Lock															●
KNEE SPLINTS															
Genuimmo® 0°, 20 °			●	●											
Ligaflex® Post-op			●			●									
Ligaflex® Immo, 0°, 20°			●	●											
ROM Suspension solution			●			●									
ROM-R			●			●									

ACTION PRINCIPLE

OF THE KNEE BRACES AND KNEE SPLINTS

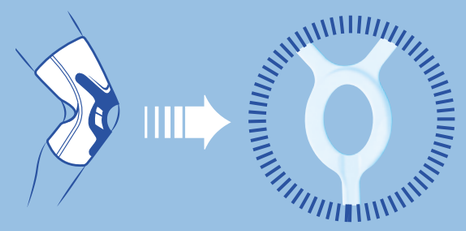
PROPRIOCEPTIVE KNEE BRACE
> **Improved proprioception** (perception of the body in space) via the use of a **compressive knit.**

> Used in the event of **mild joint pain** or **resumption of activities**.



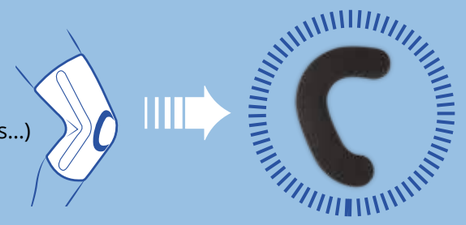
PATELLAR KNEE BRACE
> **Kneecap supported** by the **silicone ring** and **proprioceptive effect** thanks to the **compressive knit**

> Used in the event of **tendinitis** or a **chronic condition** (osteoarthritis, etc.).



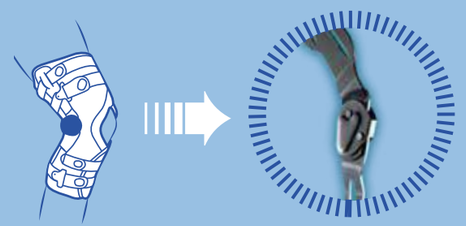
PATELLO-FEMORAL KNEE BRACE
> **Patella realignment** in its **physiological axis** and **proprioceptive effect** thanks to **compressive knitting**

> Used in cases of **patella malalignment** (patello-femoral syndrome, dislocation / subluxation, patello-femoral arthritis...)



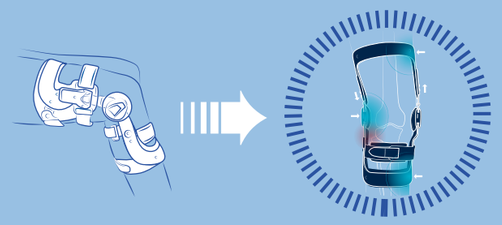
LIGAMENT KNEE BRACE
> **Supports the knee** via the use of **hinged rigid reinforcements**

> Used in the phase immediately **following injury** (depending on the severity), or in the **resumption of sports phase**



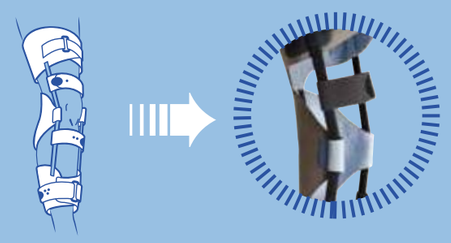
OFFLOADING KNEE BRACE
> **Offload of the damaged compartment** thanks to a **3-point system**.

> Used in case of **unicompartmental femoro-tibial osteoarthritis**.



KNEE **SPLINT**
> Analgesic and protective effect due to **complete immobilisation** of the knee

> Used immediately **after an injury** or **postoperatively**.



WHICH SOLUTION FOR WHICH PATHOLOGY?

CLINICAL STUDIES

Improved function and strength
by using an off-loading orthosis on the osteoarthritic knee

Improvements in Function and Strength with Decompressive Bracing of the Osteoarthritic Knee. E. Lamberg et al. Journal of Prosthetics and Orthotics. 28(4):173–179, Oct 2016.

Objectives

Evaluate, when using **Rebel**Reliever® brace, the change of the biomechanics of the knee, its clinical effect and its effect on the function

Design of the study

BASELINE Level of reference → **Fitting** 1 week from baseline → **INTERMEDIATE** Evaluation After 2 weeks of wear → **FINAL** Evaluation after 8 weeks of wear

BASELINE	Fitting	INTERMEDIATE	FINAL
Mesure for brace	Fit with brace		
Testing NO brace		Testing WITH brace	Testing WITH brace
Surveys completed	Surveys completed	Surveys completed	Surveys completed

Tests

6 mn

6 minute walk test — *Instrumented gate analysis* — *Isokinetic strength test*

Surveys completed

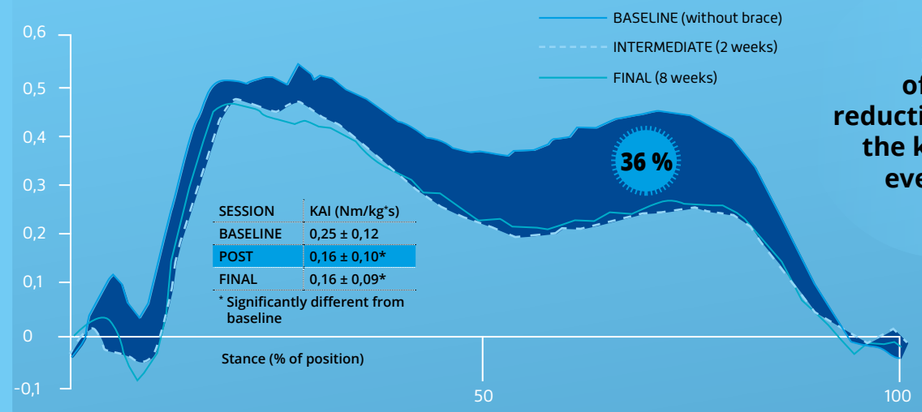
- *Knee injury and OA Outcome Score (KOOS)*
- *Activity Balance Confidence Scale (ABC)*

Results

Population

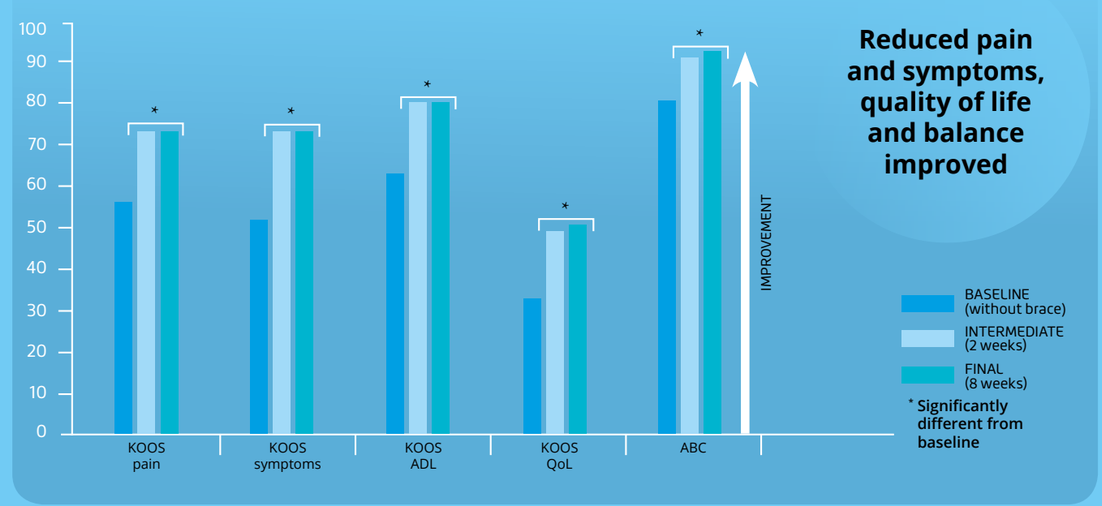
		n = 15
Mean age (years)		55 (39 - 70)
Gender		12 men 3 women
Mean BMI (kg/m²)		25 (24 - 49)
Kellgren-Laurence grade (%)	**Grade II**	20 %
	Grade III	67 %
	Grade IV	13 %

Moment of adduction of the knee (Nm/kg)



36 % of force reduction through the knee with every step

Survey results



Reduced pain and symptoms, quality of life and balance improved

Conclusion

- Reduced forces on the knee joint
- Reduced pain
- Reduced symptoms
- Improved balance confidence
- Improved quality of life
- Improved ADL participation
- Improved walking capacity
- Improved muscle function

CLINICAL STUDIES

Efficiency and **safety** of the **Rebel**Reliever® in patients with knee osteoarthritis

ROTOR Study

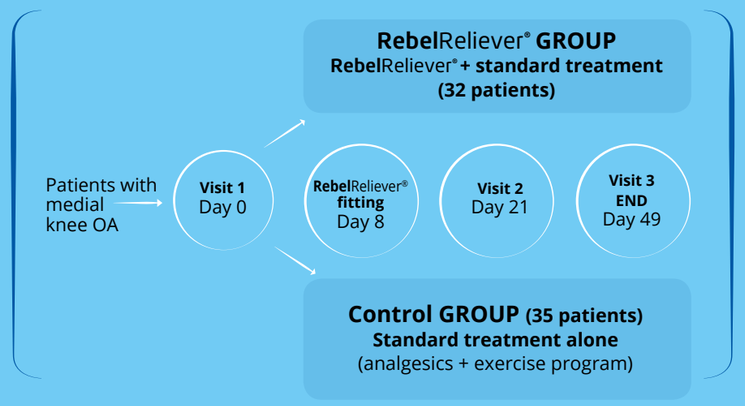
Randomised controlled trial evaluating the **Rebel**Reliever® brace effect + standard treatment vs standard treatment alone on 67 patients suffering from symptomatic medial knee osteoarthritis.
OARSI Congress Poster 2017. Study report final version of Nov. 30th 2016.

RebelReliever® **knee brace improves function**

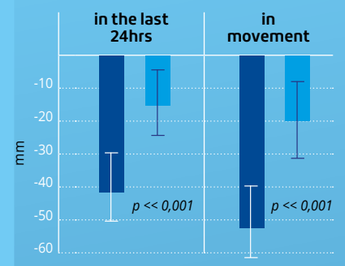
Objective

To evaluate the efficacy of the **Rebel**Reliever® knee brace in combination with standard treatment after a 6-week treatment period, in patients with symptomatic medial knee osteoarthritis

Study Design



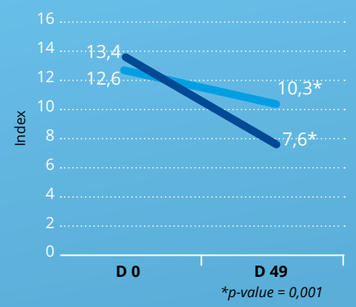
Reduction of mean pain



RebelReliever® **brace also reduces pain when in movement**

RebelReliever®
Control

Lequesne algofunctional index

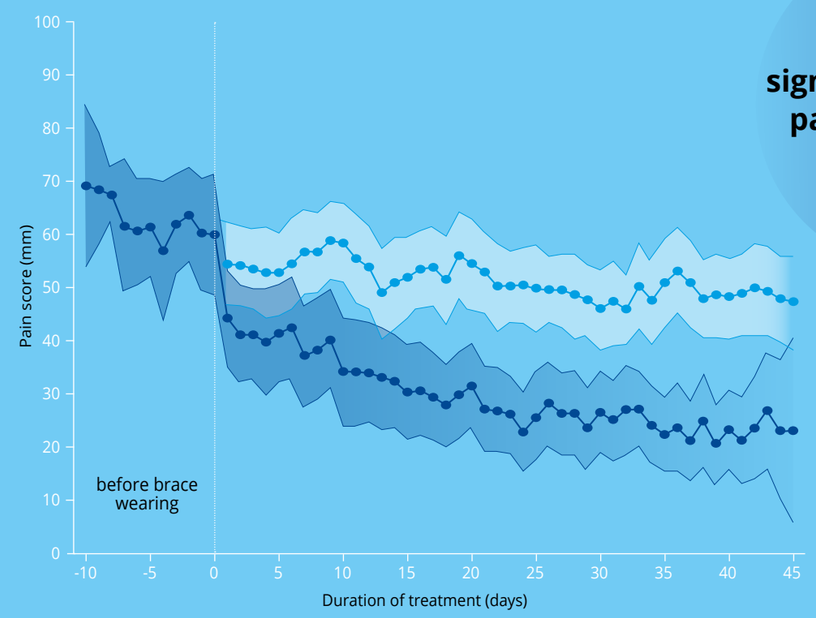


Results

Population

		RebelReliever® (n = 32)	**Controlled** (n = 35)
Mean age (years)		64,8 ± 11,7	66,6 ± 7,2
Female (%)		75	57,1
Mean BMI (kg/m²)		29,2 ± 4,4	28,1 ± 5,1
Mean OA duration (years)		8,4 ± 6,8	8,9 ± 7,4
Kellgren-Laurence Grade (%)	**Grade II**	31,2	20,0
	Grade III	46,9	62,9
	Grade IV	21,9	17,1

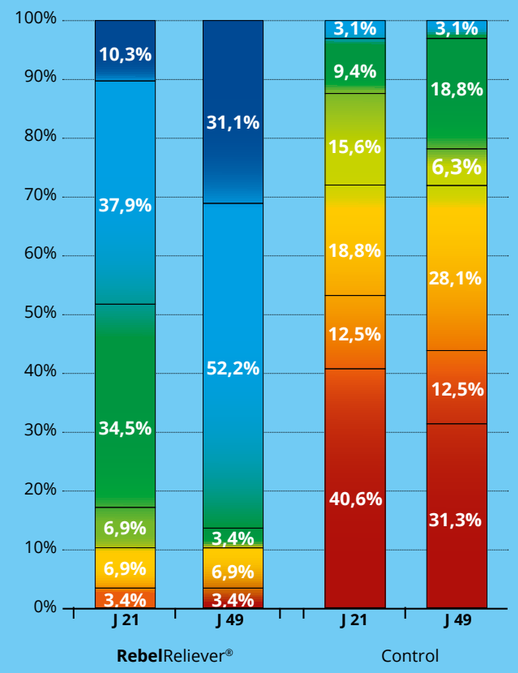
Pain score evolution



The Rebel Reliever® **knee brace significantly reduces pain immediately and for a sustainable time**

Control
RebelReliever®
p-value < 0,01

Patient clinical global impression of change



More than 80 % of patients feel a **definite and considerable improvement** of their condition with **Rebel**Reliever® brace by the end of the trial

- A great deal better and a considerable improvement that has made all the difference
- Better and a definite improvement that has made a real and worthwhile difference
- Moderately better, and a slight but noticeable change
- Somewhat better, but the change has not made any real difference
- A little better, but no noticeable change
- Almost the same, hardly any change at all
- No change (or condition has gotten worse)

Conclusion

Superiority of **Rebel**Reliever® knee brace + standard treatment vs standard treatment alone was demonstrated. Combining **Rebel**Reliever® knee brace with standard treatment procures a significative advantage to patients and constitutes a powerful non pharmacological therapeutic strategy to handle knee osteoathritis.

Off-loading knee braces

ORDER IN GERMANY

TOWNSEND THUASNE USA

RebelReliever®

U03309

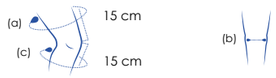
- **Loadshifter** system to **offload the injured compartment** for knee arthritis cases
- Adjustable without tools
- **Held in place** by the **TM5+ articulation** reproducing the natural movement of the knee and the **suspension strap** (US patent / Thuasne innovation)

2 models: right and left

Standard sizes

	(a)	(b)	(c)
XS	31 - 39 cm	7,5 - 9 cm	28 - 32 cm
S	39 - 47 cm	9 - 10 cm	31 - 35 cm
M	47 - 53 cm	10 - 11,5 cm	34 - 38 cm
L	53 - 60 cm	11,5 - 12,5 cm	37 - 40 cm
XL	60 - 64 cm	12,5 - 14 cm	38 - 43 cm
XXL	64 - 71 cm	14 - 15,5 cm	43 - 48 cm

Adapted sizes



	(a)	(b)	(c)
XS/S	31 - 39 cm	8,5 - 9,5 cm	31 - 35 cm
S/M	39 - 47 cm	9,5 - 11 cm	34 - 38 cm
M/S	47 - 53 cm	9,5 - 11 cm	31 - 35 cm
M/L	47 - 53 cm	11 - 12 cm	37 - 40 cm
L/M	53 - 60 cm	11 - 12 cm	34 - 38 cm
L/XL	53 - 60 cm	12 - 13,5 cm	38 - 43 cm
XL/L	60 - 64 cm	12 - 13,5 cm	37 - 40 cm
XL/XXL	60 - 64 cm	13,5 - 14,5 cm	43 - 48 cm
XXL/XL	64 - 71 cm	13,5 - 14,5 cm	38 - 43 cm

Find out more

TOWNSEND THUASNE USA

Dynamic Reliever®

U30801

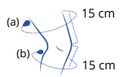
PATIENT COMPLIANCE
- **Comfortable, discreet and lightweight** (450 g) for a long-term wear
- Easy to put on and take off thanks to the **quick release buckles**

ADJUSTABLE CORRECTIVE FORCE
- **Telescoping Townsend Motion hinge** (patent pending) for a dynamic offloading when walking
- Adjustment by **contouring the upright**, tightening the straps or increasing condylar pad thickness

SUPPORT
- Tight support thanks to the calf strap and the **anatomical hinge system** (Townsend Motion)
- Adjustable and comformable semi-rigid thigh and calf shells
- **Adjustable tibia bolster** (patent pending) preventing brace rotation

MODULAR COMPONENTS
- **Modular components** (thigh shell, hinge and calf shell) that clip together **with no tools** (**patent pending**) to fit all body shapes

2 models: right and left



	(a)	(b)
1	35 - 45 cm	28 - 35 cm
2	45 - 61 cm	35 - 43 cm
3	61 - 71 cm	43 - 48 cm

Find out more

Off-loading knee brace

NEW

ActionReliever

2349 01

EFFICACY
- **Dynamic 3-point pressure off-loading mechanism**
- Straps creating a dynamic 3-point pressure system: most effective on heel strike
- Combined rigid adjustable hinge on the affected side and flexible stay on the unaffected side
- Cross strap capture system allows the proper anchoring of the straps during the gait cycle
- **Medical grade compression to restore the proprioceptive message**

COMPLIANCE

COMFORT
- Anatomical knitting with comfort zones at popliteal area and at brace edges
- Anatomically shaped straps, self-oriented and adjustable
- Silicon thread integrated to the knitting to prevent migration

LOW PROFILE
- Invisible under most clothes

FITTING CONSISTENCY
- Easy to slide up the leg thanks to the anatomical knitting
- Easy to close: effortless magnetic buckles with finger loop, snap into place automatically
- Easy to adjust: the self-dosing adjustment possible by tighten the front straps

Available in medial left/lateral right and medial right/lateral left

1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

Find out more

FLEXIBLE PROPRIOCEPTIVE KNEE BRACES

Proprioceptive knee braces

GenuSoft

2320 03

- **Proprioception** provided by the elastic compressive weave (about 17 mmHg)
- **Anatomically-shaped weave** with comfort zone beneath the knee

GenuAction

2325 02

- **Support and proprioception** provided by the elastic compressive weave (about 23 mmHg)
- **Anatomically-shaped weave** with comfort zone around the patellar beneath the knee

Exists in a junior version

GenuExtrem

2321 01

- **Support and proprioception** provided by the elastic compressive knit (approximately 28 mmHg)
- **Additional lateral reinforcement** provided by flexible stays
- **Anatomically-shaped knit** with comfort zones over the kneecap and behind the knee
- **Easy to put on** thanks to patented pull tabs
- **Lateral silicone anti-slip system** for better hold

1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm

20 to 22 cm

1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

23,5 to 25,5 cm

1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

23,5 to 25,5 cm

Ligament knee brace with functional strapping

Ligastrap® **Genu**

2170 02

- **Double strapping system** with set-up marks thanks to numbered and pre-oriented straps
- **Proprioception provided** by the compressive knit (about 26 mmHg)
- **Anatomical knit** with comfort zones over the kneecap and the back of the knee
- **Easy to put on** thanks to the patented pull-on tabs

1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

30 to 33 cm

Find out more

PATELLAR AND FEMORO-PATELLAR KNEE BRACES

Patellar knee braces

Silicone patellar insert

GenuPro activ

2347 02

- **Proprioceptive stimulation** provided by the silicone **patellar insert** and the elastic compressive knit (approximately 26 mmHg). The patellar insert provides firm support for the kneecap and serves as a protective guide for the patellar tendon
- **Anatomical design** for better adjustment to shape: anatomical cut at the calf, comfort zone behind the knee, stretchy knit over the thigh and calf
- **Flexible lateral reinforcements. Lateral silicone anti-slip system** for better hold

Silicone patellar insert

GenuPro comfort

2346 03

- **Silicon patellar insert**
- **Proprioception** provided by the elastic compressive weave
- **Flexible lateral stays**
- **Extra comfort** thanks to its **hyper extensible** weave at the rear
- Lateral silicon anti-slip system for better hold

Silicone patellar insert

Silistab® **Genu**

2340 05 (white)
2345 04 (black)

- **Silicone patellar insert**
- **Proprioception** provided by the elastic compressive knit (approximately 18 mmHg)
- **Flexible lateral reinforcements**
- Comfortable with its **jersey** behind the knee
- Lateral silicone anti-slip system for better hold

2 versions: patellar open (white) and patellar closed (black)

	(a)	(b)
1	35 - 38 cm	25 - 28 cm
2	38 - 41 cm	28 - 31 cm
3	41 - 44 cm	31 - 34 cm
4	44 - 47 cm	34 - 37 cm
5	47 - 51 cm	37 - 41 cm
6	51 - 55 cm	41 - 45 cm
6+	55 - 59 cm	43 - 47 cm

(a) 14 cm, (b) 12 cm; 29 to 33 cm

N.B. : if the two measurements do not correspond to the same size, choose the size corresponding to measurement (b)

Black Grey White

	31 to 36 cm
1	31 - 33 cm
2	34 - 36 cm
3	37 - 39 cm
4	40 - 42 cm
5	43 - 45 cm
6	46 - 48 cm

Black Beige

	31 to 35 cm
1	31 - 33 cm
2	34 - 36 cm
3	37 - 39 cm
4	40 - 42 cm
5	43 - 45 cm
6	46 - 48 cm

Black White

Patellar bandage

Patellar bandage

2304 01

- Applies **local pressure** over the patellar tendon and **supports the kneecap** due to its anatomical shape

Single size
26 - 50 cm

Patello-femoral knee brace

NEW

PatellaReliever

2348 01

- **Patellar insert with dynamic adjustment system:**
  - Anatomical and asymmetrical shape
  - Lightweight EVA foam
  - Adjustment by system of straps and lace to adapt to the patient's morphology
- **Anatomic knitting** with **comfort zones and integrated silicone**

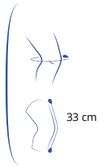
	32 cm
1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

Find out more

Genu Dynastab®

2370 05

- Provides **stability** via **bi-axial articulation stays** and **adjustable rigid straps**
- **Semi-circular straps** to avoid any risk of tourniquet effect
- **Anatomically-shaped design** for better **morphological adjustment**: comfort zone around the back of the knee, stretch weave on the thigh



1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

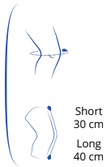
Closed short version (30 cm)

Genu Ligaflex®

2375 03 (closed)

- **Hold-in-place** provided by the TM5 articulation reproducing the knee's natural movement and by the **suspension strap** (US patent/Thuasne innovation)
- Stability provided by the **aluminium lateral frames** with anatomic shape
- **Anatomical knit** with integrated silicone antislip and **comfort zones** on the knee cap and the back of the knee
- **Easy to slip on** thanks to the stretch knit and the patented pull-on tabs
- **Homogeneous bilateral fastening** provided by the semi-circular straps

Genu Ligaflex® open version exists in two heights, short and long



1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

Closed long version (40 cm)

Hinged ligament knee braces

NEW

Open short version (30 cm)

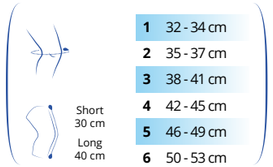
Genu Ligaflex®

2375 04 (open)

- **Anterior opening** for easy application
- User friendly buckles

New open version available in April 2018 (ref. 2375 05)

Genu Ligaflex® open version exists in two heights, short and long



1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

Open long version (40 cm)

LIGAMENT KNEE BRACES

Find out more

Genu Ligaflex® ROM

2386 05 (open) - 2386 04 (closed)

- Holds in place thanks to the **TM5+ articulation** reproducing the knee's natural movement and by the **suspension** strap (US patent/Thuasne innovation)
- **No-tool** bending and stretching movement limitation with wide adjustment range
  - Bending: 0°, 30°, 45°, 60°, 75°, 90°
  - Stretching: 0°, 5°, 10°, 15°, 20°, 30°, 40°
- **4 anchor points** on the frame for proper compliance with bending/stretching rules
- **Overlap opening** on the front of the leg (open version), **homogenous closing** provided by the semi-circular straps
- **Anatomical knit** with integrated anti-slip silicone and **comfort zones** on the kneecap (closed version) and on the back of the knee

Genu Ligaflex® ROM closed version
exists in two heights, short and long

Genu Ligaflex® ROM open version
exists in two heights, short and long

Short 30 cm
Long 40 cm

1	32 - 34 cm
2	35 - 37 cm
3	38 - 41 cm
4	42 - 45 cm
5	46 - 49 cm
6	50 - 53 cm

Rigid ligament knee braces

Find out more

TOWNSEND THUASNE USA

GenuControl 7857 01

- **Held in place** by the **TM5+ articulation** reproducing the natural movement of the knee and the **suspension strap** (US patent / Thuasne innovation)
- **Stability** provided by the **aluminium** wire frame and the **anatomical form** of the tibia shell, which stops the brace from twisting on the leg
- **Comfortable** thanks to its **self-adjusting plastic** extremities and foam padding

2 models: right and left

TOWNSEND THUASNE USA

Rebel® Standard U03002

- **Held in place** by the **TM5+ articulation** reproducing the natural movement of the knee and the **suspension strap** (US patent / Thuasne innovation)
- **Stability** provided by the **aluminium** wire frame and the **anatomical form** of the tibia shell, which stops the brace from twisting on the leg

Rebel® Pro U03102

- Greater rigidity than the Standard version
- Compression/Suspension pack

2 models: right and left

S	9 - 10 cm
M	10 - 11,5 cm
L	11,5 - 13 cm
XL	13 - 14 cm

Bending limitation kit

Single size

XS	8 - 9 cm
S	9 - 10 cm
M	10 - 11,5 cm
L	11,5 - 13 cm
XL	13 - 14 cm
XXL	14 - 15 cm*

* Only Rebel Pro

Rebel® Lock U30202

- **Articulation can be fixed** in **extension** by simple pressure: for patients suffering from serious laxity or quadriceps muscle insufficiency
- Stability provided by the **aluminium** wire frame and the **anatomical form** of the tibia shell, which stops the brace from twisting on the leg

2 models: right and left

XS	8 - 9 cm
S	9 - 10 cm
M	10 - 11,5 cm
L	11,5 - 13 cm
XL	13 - 14 cm

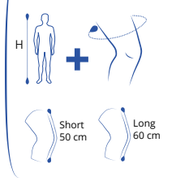
TOWNSEND THUASNE USA

KNEE SPLINTS

Genuimmo® 0° 2415 01 and 20° 2425 01

- **Immobilisation** provided by 3 conformable stays
- **Anatomical fit** thanks to 4 separate height-adjustable straps
- **Comfortable** with its wide openings and folding central panel
- **Easy to use**: fitting guidance. Easy access to the knee for treatments

2 versions (0 and 20°)



	short H < 1,75 m (50 cm)
S	35 - 45 cm
M	45 - 52 cm
L	53 - 62 cm
XL	63 - 75 cm
	long H > 1,75 m (60 cm)
M	45 - 52 cm
L	53 - 62 cm
XL	63 - 75 cm

Knee splints

Ligaflex® Immo
2400 03

- **Immobilisation** provided by 4 adjustable stays
- **Anti-slip system** and **tightening straps** for better brace support of the leg
- **Adjusts to all leg and thigh circumferences** with its 3 mobile panels

Ligaflex® Immo
0° 2410 03 and 20° 2420 03

- **Immobilisation** provided by 3 adjustable stays
- **Anti-slip system** and **tightening straps** for better brace support of the leg

2 versions (0 and 20°)

Exists in a junior version

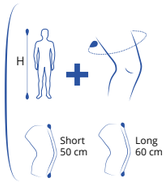
Hinged knee splints

Ligaflex® Post-op
2384 01

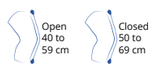
- **Immobilisation** provided by 2 adjustable lateral reinforcements
- **Adjustable height** for correct support
- **Flexion adjustable from 0 to 120° and extension from 0 to 75°**

2 versions (open and closed)

1	50 - 60 cm
2	60 - 70 cm
3	70 - 80 cm
4	> 80 cm

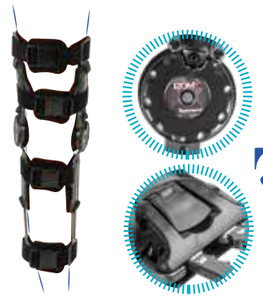


	short H < 1,75 m (50 cm)
S	35 - 45 cm
M	45 - 52 cm
L	53 - 62 cm
XL	63 - 75 cm
	long H > 1,75 m (60 cm)
M	45 - 52 cm
L	53 - 62 cm
XL	63 - 75 cm



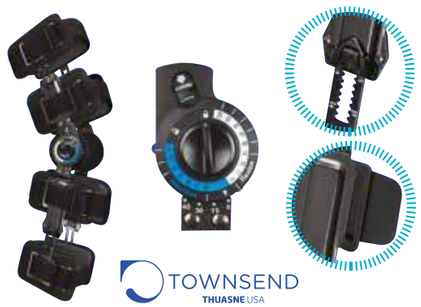
Single size

Hinged knee splints



ROM Suspension solution
U04804

- **Immobilisation** provided by 2 adjustable lateral reinforcements
- **SnapLock tool-less height adjustment system**
- Tool-less adjustment of **articulation flexion and extension**, **by 10° graduations**
- **Extra comfort** thanks to its breathable foam inserts
- **Easy to put** on using the **clip buckles**



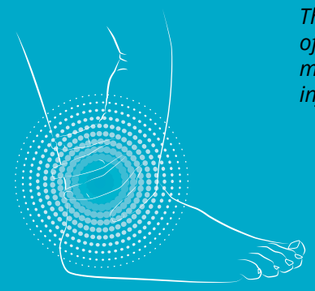
ROM-R
U04601

- Immobilisation provided by **2 conformable lateral frames**
- Adjustable height thanks to the **no-tool SnapLock system**
- No-tool adjustment of articulation for bending and stretching, with 15° steps
- **DropLock** system enabling effortless immobilisation at 0, 15, 30 and 45°
- Air-foam inserts adjustable to the morphology

Single size

Single size

ANKLE



The only physiological movement of the ankle joint is flexion/extension of the foot relative to the leg. However, while walking, there may be lateral movements of the ankle, which can cause ligament damage (sprains) or bone injuries (malleolar fractures).

WHICH SOLUTION FOR WHICH PATHOLOGY?

	LIGAMENT AND TENDON RELATED TRAUMA / INJURY				FRACTURES AND POST-OPERATIVE PHASES				PREVENTIVE TREATMENT AND RETURN TO WORK				
	Mild sprain	Moderate sprain	Severe sprain	Achilles tendon disorders	Fracture of the foot and the front of the foot	Malleolar fractures	Fractures of the lower third of the leg	Pre or post-operative ankle stabilisation	Proprioception	Chronic laxity	Resumption of activity	Resumption of sporting activity	Protection of malleoli
PROPRIOCEPTIVE ANKLE BRACES													
MalleoSoft									●		●		
MalleoAction									◎		●		
Silistab® **Malleo**									●				●
Silistab® **Achillo**				◎									
MalleoPro activ										●	◎	●	◎
LIGAMENT ANKLE BRACE													
Ligastrap® Malleo									●	◎		●	
ANKLE SPLINTS													
MalleoDynastab® Boa®	●	◎										◎	
MalleoDynastab®	●	◎										◎	
Ligastrap® Immo		◎					◎						
Ligacast® Air +	◎	●											
Ligacast® Anatomic	◎	●											
WALKING BOOTS													
XLR8 long			◎			◎	◎	●					
XLR8 short								●					
TD Fix **Walker** long			●			●	●						
TD Fix **Walker** short					●								
TD Air **Walker** long			●			●	●						
TD Air **Walker** short					●								
TD ROM **Walker** long								◎					
TD ROM **Walker** short								◎					

Boa® is a registered trademark of Boa Technology Inc.

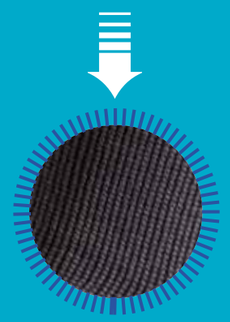
TYPICAL PATIENT **Which profile?**	PRESCRIPTION **Which?**	INDICATION **Which?**	ITEM **Which?**
CHILD (< 1,40 m)	**ANKLE BRACE**	Proprioception	**Malleo**Action junior
	ANKLE SPLINT	Epiphyseal injury Malleolar fractures	**Ligacast**® junior

ACTION PRINCIPLE

OF ANKLE BRACES, ANKLE SPLINTS AND WALKING BOOTS

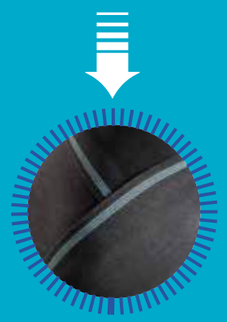
PROPRIOCEPTIVE ANKLE BRACE

- **Improved proprioception** (perception of the body in space) via the use of a **compressive knit**.
- Used in the event of **mild joint pain** or **resumption of activities**.

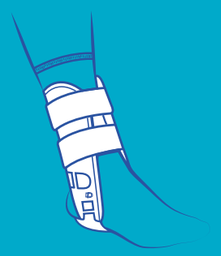


LIGAMENT ANKLE BRACE

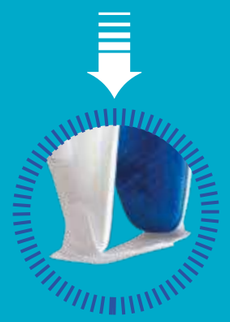
- **Holds the ankle** in an anatomical position using **elastic straps**.
- Used in the phase immediately following **injury** (depending on the severity), or in the **resumption of sports** phase.



ANKLE SPLINT

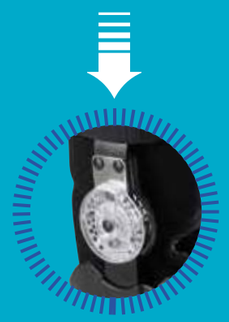


- Analgesic and protection action through **a more firm immobilisation** of the ankle. Its compressive effect can help **reduce oedema**.
- Used immediately after an **injury** or **postoperatively**.



WALKING BOOT

- Analgesic action through **immobilisation of the ankle**, reduction of the oedema thanks to **adjustable compression**, also suitable for managing post-operative treatment.
- Used in **severe sprains** or **postoperatively**.



WHICH ANKLE BRACE FOR WHICH INDICATION?

TYPICAL PATIENT **Which profile?**	PRESCRIPTION **Which?**	INDICATION **Which?**			ITEM **Which?**
ADULT (> 1,40 m)	**ANKLE BRACE**	Achilles tendon disorders	**ACHILLES TENDON** ANKLE BRACE		Silistab® **Achillo**
		Indeterminate mild pain and/or return to activity Proprioception The effects after a sprain	**PROPRIOCEPTIVE** ANKLE BRACE	**Limited** activity ●○○	**Malleo**Soft
				Moderate activity ●●○	**Malleo**Action
				Intense activity ●●●	**Malleo**Pro activ
		Mild sprain	**LIGAMENT** ANKLE BRACE		**Ligastrap**®Malleo
		Resumption of sporting activity Following trauma Chronic laxity	**LIGAMENT** ANKLE BRACE	**Linear sports**	**Ligastrap**®Malleo
				Pivot sports basketball, volley-ball, handball, etc...	**Malleo**Dynastab® Boa®
	ANKLE SPLINT	Mild sprain		**Ligacast**®Anatomic	**Ligacast**®Air +
		Moderate sprain		**Moderate** activity ●●○	**Ligastrap**® Immo
				Intense activity ●●●	**Malleo**Dynastab® Boa®
	WALKING BOOT	Severe sprain Following a malleolar fracture Fractures of the lower third of the leg			**XLR8** - TD **Walker**

PROPRIOCEPTIVE ANKLE BRACES

MalleoSoft

3600 02

- **Proprioception** provided by the elastic compressive weave (about 17 mmHg)
- **Anatomically-shaped weave** with comfort zone around the malleoli

1	19 - 21 cm
2	21 - 23 cm
3	23 - 25 cm
4	25 - 27 cm
5	27 - 30 cm

MalleoAction

2361 02

- **Support and proprioception** provided by the elastic compressive knit (approximately 22.5 mmHg)
- **Anatomically-shaped knit**, comfort zone over the malleoli and patented pull tabs

Exists in a junior version

1	19 - 21 cm
2	21 - 23 cm
3	23 - 25 cm
4	25 - 27 cm
5	27 - 30 cm

Silistab® **Malleo**

2365 01

- **Silicon insert** to protect the malleoli and **support the instep**
- **Proprioception** thanks to its elastic compressive weave (about 21 mmHg)
- **Anatomically shaped weave**

1	19 - 20 cm
2	21 - 22 cm
3	23 - 24 cm
4	25 - 27 cm
5	28 - 30 cm
6	31 - 33 cm

Achilles tendon ankle brace

Silistab® **Achillo**

2355 02

- **Offloading of the Achilles tendon** provided by **soft silicone heel pieces**: 2 pairs of stackable heel pieces permitting 3 offloading heights depending on the course of the condition (13, 8 or 5 mm)
- **Tendon protection** thanks to the anatomical shape of the peri-Achilles silicone insert
- **Anatomically-shaped knit**, comfort zone over the malleoli and patented pull tabs
- **Massage effect** thanks to the dimpling on the silicone insert
- Elastic compressive knit (approximately 23 mmHg)

1	19 - 21 cm
2	21 - 23 cm
3	23 - 25 cm
4	25 - 27 cm
5	27 - 30 cm

Find out more

PROPRIOCEPTIVE AND LIGAMENT ANKLE BRACES

MalleoPro activ

2368 02

- **Support and proprioception** provided by its elastic compression weave (about 27 mmHg) and **integrated supination brake**
- **Anatomically shaped weave**, silicon comfort zone and inserts to protect the malleoli

2 models: right and left

1	28 - 29 cm
2	30 - 31 cm
3	32 - 33 cm
4	34 - 35 cm
5	36 - 38 cm

Black

Grey

Ligastrap® Malleo

2180 03

- **Reinforcement of the lateral ligaments** thanks to the elastic compressive knit (approximately 27.5 mmHg) and **double strapping**
- **Additional reinforcement** and placing in slight eversion position thanks to a **removable strap**
- Wearer comfort: minimum thickness and velcro adjustment
- Anti-slip system on the calf for better hold

1	19 - 21 cm
2	21 - 23 cm
3	23 - 25 cm
4	25 - 27 cm
5	27 - 30 cm

Find out more

MalleoDynastab® Boa®

2351 01

- **Tightening system** with the **Boa® technology**: easy, quick and reliable. Guaranteed throughout the product's life cycle
- **Thin and anatomical design**: can be worn in most shoes
- **Rigid hold in place and increased stabilization** of the ankle thanks to the light and comfortable metal reinforcements
- **Additional lateral reinforcement** provided by the 2 straps
- **Easy hold in place and removal** thanks to a large aperture
- **3D antibacterial knit**, light and wicking for better moisture evacuation

1	19 - 22 cm
2	22 - 26 cm
3	26 - 30 cm

Find out more

Boa® is a registered trademark of Boa Technology Inc.

MalleoDynastab®

2350 03

- **Precise lace-up tightening**

1	19 - 22 cm
2	22 - 26 cm
3	26 - 30 cm

Splint with reinforcing strap

Ligastrap® Immo

2337 02

- **Firm support** for the ankle provided by 2 rigid side shells and the dual-strap fastening system
- **Additional support** provided by **removable strapping strap**
- **Inner lining made of thermoregulating Outlast®** fabric for long-term comfort
- **Fits the patient's anatomy**: side supports with asymmetrical hollows for the malleoli
- **Simplified fastening** using the pulley system and velcro straps for precise adjustment and uniform tightening of the brace

2 models: right and left

0 < 160 cm
1 > 160 cm

Splint with inflatable inserts

Ligacast® Air +

2334 01

- **Firm support** for the ankle provided by 2 rigid side shells
- Protection reinforced by the **inflatable inserts** for a perfect anatomical fit
- The air circulating inside the pads provides a massage effect to help reduce oedema
- **Easy to fit** thanks to the velcro straps and adjustable heel strap
- **Separate inflator bulb** for adjustment of air pressure once the brace is in place

Bilateral model

Single size

Splint with honeycomb inserts

Ligacast® Anatomic

2315 01

- **Firm support** for the ankle provided by 2 rigid side shells
- Flexible edges for an anatomical fit
- **Honeycomb interior** for enhanced wearer comfort
- **Fits the patient's anatomy**: side supports with asymmetrical hollows for the malleoli

2 models: right and left

Exists in a junior version

0 < 160 cm
1 > 160 cm

WALKING BOOTS

XLR8

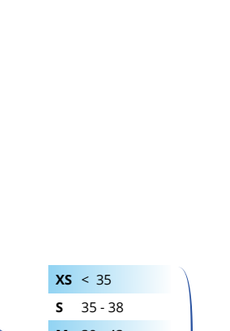
U08903 (long) - U09003 (short)

- **Rigorous immobilisation** thanks to the rigid lateral shell case
- **Precise anatomical fit** thanks to two independent air cells, integrated in the boot
- Removable rigid shell case allowing **full opening of the slipper**
- **Removable and washable inside slipper**
- **Easy and quick inflating** to adapt the edema pressure one the walking boot is in place
- **Anti-slip curved sole** for a natural and comfortable gait
- Toe protection thanks to an **adjustable** arch (3 positions)

2 versions: long and short

Shoe size	
XS	< 35
S	35 - 38
M	39 - 43
L	44 - 47
XL	> 47

Find out more



TD Fix **Walker**

U08002 (long) - U08102 (short)

- **Firm support** provided by the **anatomically-shaped** metal lateral reinforcements
- **Wide curved sole** for maximum stability
- **Comfortable upper section** for better morphological adjustment
- **Ultra-light product** for a high level of day-to-day wearer comfort
- Removable and washable inner bootee
- Adjustable Velcro fastening straps

2 versions: long and short

Shoe size	
XS	< 35
S	35 - 38
M	39 - 43
L	44 - 47
XL	> 47

Find out more

TD ROM **Walker**

U08202 (long) - U08302 (short)

- **Range of motion adjustment possible** from 45° plantar flexion to 30° dorsal flexion in 7.5° stages
- **Firm support** provided by the **anatomically-shaped metal lateral reinforcements**
- **Ultra-light product** for a high level of wearer comfort day-to-day

2 versions: long and short

Shoe size	
XS	< 35
S	35 - 38
M	39 - 43
L	44 - 47
XL	> 47

Find out more

TD Air **Walker**

U08402 (long) - U08502 (short)

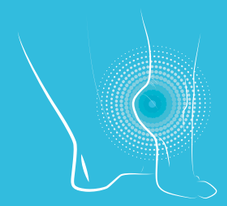
- Adjustment to fit anatomy thanks to the **inflatable bootee with integrated pump**
- **Easy, quick inflation** to adjust the pressure to the level of oedema once the walker boot is in place
- **Firm support** provided by the **anatomically-shaped metal lateral reinforcements**
- **Ultra-light product** for a high level of wearer comfort day-to-day

2 versions: long and short

Shoe size	
XS	< 35
S	35 - 38
M	39 - 43
L	44 - 47
XL	> 47

Find out more

FOOT



The foot is essential for the human body to stand upright. It also plays a shock absorption role and serves to propel the foot forwards when walking. Feet can be subject to anatomical, tissue and articulation deformations.

WHICH SOLUTION FOR WHICH PATHOLOGY?

INSOLES AND HEEL INSERTS

	Articulation shock absorption	Metatarsalgia	Bursitis	Plantar fasciitis	Heel spurs	Osteoarthritis
INSOLES						
Pedipro	●		●	●		
Pedipro plus	●	●		●		
Podosil						●
HEEL INSERTS						
Pedipro	●				●	
Pedipro plus	●				●	
Pedipro softer	●				●	
Elastocalx N, S/P	●				●	●
ElastocalxPlus, Flex	●				●	●
Sohli					●	

OTHER FOOT SPLINTS

	Foot levator muscle weakness	Maintenance and post-operative hallux-valgus therapy
NEW **Spry**Step	●	
Pero-med	●	
Pero-med AFO III/II	●	
Pero-med Adapt	●	
HalluxPro night		●

OFFLOADING SHOES

	Heel unloading in cases of:		Front-foot unloading in cases of:		
	Plantar ulcer	Post-operative	Plantar ulcer	Post-operative	Lesions and fractures
PODO-MED					
T500501	●	●			
T500301			●	●	●
T500451 / T500471			●	●	

INSOLES AND HEEL INSERTS

Pedipro

6510 01 - 6500 01

- **Flexible silicon** providing shock absorption and distribution
- Extra comfort thanks to **ventilation channels** which provide better aeration
- Reinforced heel support in the shoe through **non-slip pads**
- Sold in pairs
- Under-heel thickness: 8 mm

INSOLES

1	37 - 39
2	40 - 41
3	42 - 43
4	44 - 46

HEEL INSERTS

1	36 - 39
2	40 - 46

Podosil

T478801

- Silicon visco-elastic insoles with **hypo-allergenic coating**
- **Support to feet and unloading of the sensitive areas** of the front-foot and heel
- Additional unloading of the heel spur thanks to a dedicated concave zone
- Extra comfort from the **cotton lining**, that is easily tolerated by the skin
- Sold in pairs

Shoe size EUR	Length cm
35 - 36	22,3 - 23
37 - 38	23,7 - 24,3
39 - 40	25 - 25,7
41 - 42	26,3 - 27
43 - 44	27,7 - 28,3
45 - 46	29 - 29,7
47 - 48	30,3 - 31

Pedipro softer

6605 01

- **Flexible silicon** providing shock absorption and distribution
- **Progressive heel inserts** with **concave areas for suitable inserts**: aniseed green insert for heel spur comfort, blue insert for healthy feet or other conditions
- Extra comfort thanks to **ventilation channels** which provide better aeration
- **High sides** for better fit inside shoe
- Sold in pairs
- Under-heel thickness: 10 mm

1	36 - 39
2	40 - 46

Pedipro plus

6610 01 - 6600 01

- **Flexible silicon** providing shock absorption and distribution
- **Comfort zones** provided by **anatomically shaped inserts** around the heel and the metatarsus (insole version) and around the heel spur (heel insert version)
- **Antibacterial coating** (Cambrelle/ Amicor™) for hygiene and comfort
- Reinforced heel support in the shoe through **non-slip pads**
- Sold in pairs
- Under-heel thickness: 8 mm

INSOLES

1	37 - 39
2	40 - 41
3	42 - 43
4	44 - 46

HEEL INSERTS

1	36 - 39
2	40 - 46

Arch support for children

Sohli T479841

- Increased comfort with **textile covering** on the foot side
- **Median calcaneus correction**
- Thin sides with no compression points
- Sold in pairs

Shoe size EUR	Length cm
19 - 20	10,7 - 11,3
21 - 22	12 - 12,7
23 - 24	13,3 - 14
25 - 26	14,7 - 15,3
27 - 28	16 - 16,7
28 - 30	17,3 - 18
31 - 32	18,7 - 19,3
33 - 34	20 - 20,7
35 - 36	21,3 - 22
37 - 38	22,7 - 23,3

ORDER IN GERMANY

Elastocalx N

T479801

- **Symmetrical**, flat ended without sides
- Adapts to fit all shoes
- Composition: silicon

Single right/left model

		Shoe size EUR	Length cm
0	XS	32 - 34	20,3 - 21,7
1	S	35 - 37	22,3 - 23,7
2	M	38 - 40	24,3 - 25,7
3	L	41 - 43	26,3 - 26,7
4	XL	44 - 46	27,3 - 30,7

ORDER IN GERMANY

Elastocalx S/P

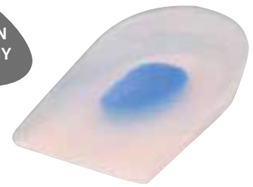
T479811

- **Unilateral supination or pronation raising heel insert**
- Adapts to fit all shoes
- Composition: silicon

Single right/left model

		Shoe size EUR	Length cm
0	XS	32 - 34	20,3 - 21,7
1	S	35 - 37	22,3 - 23,7
2	M	38 - 40	24,3 - 25,7
3	L	41 - 43	26,3 - 27,7
4	XL	44 - 46	28,3 - 29,7

ORDER IN GERMANY



ElastocalxPlus

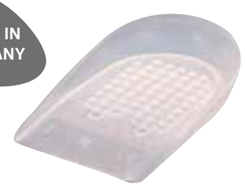
T479821

- **Soft zone at the heel spur**
- Composition: silicon

Single right/left model

		Shoe size EUR	Length cm
0	XS	32 - 34	20,3 - 21,7
1	S	35 - 37	22,3 - 23,7
2	M	38 - 40	24,3 - 25,7
3	L	41 - 43	26,3 - 27,7
4	XL	44 - 46	28,3 - 29,7

ORDER IN GERMANY



ElastocalxFlex

T479911

- **Honeycomb structure around the heel**
- Adapts to fit all shoes
- Composition: silicon

Single right/left model

		Shoe size EUR	Length cm
0	XS	32 - 34	20,3 - 21,7
1	S	35 - 37	22,3 - 23,7
2	M	38 - 40	24,3 - 25,7
3	L	41 - 43	26,3 - 27,7
4	XL	44 - 46	28,3 - 29,7

OFFLOADING SHOES

ORDER IN GERMANY

Podo-med T500501

- **Integrated plantar sole**, adjustable by moulding
- **Seamless interior** avoiding pressure zones
- **Fitting and treatment made easy** by its complete opening and Velcro strap adjustment

	Shoe size	Foot length
S	35 - 37	22 - 23 cm
M	38 - 40	24 - 25 cm
L	41 - 43	26 - 27 cm
XL	44 - 46	28 - 29 cm

ORDER IN GERMANY

Podo-med T500301

- Wedge shaped base with **dorsal flexion at 10°**
- **Rounded heel** for safe comfortable walking
- **Seamless interior** avoiding pressure zones

	Shoe size	Foot length
S	35 - 37	22 - 23 cm
M	38 - 40	24 - 25 cm
L	41 - 43	26 - 27 cm
XL	44 - 46	28 - 29 cm

Podo-med T500451

- Wedge shaped base with **dorsal flexion at 10°**
- **Extended sole** to protect the foot
- **Rounded heel** for safe comfortable walking
- **Seamless interior** avoiding pressure zones

	Shoe size	Foot length
XS	32 - 34	20 - 21 cm
S	35 - 37	22 - 23 cm
M	38 - 40	24 - 25 cm
L	41 - 43	26 - 27 cm
XL	44 - 46	28 - 29 cm

ORDER IN GERMANY

Podo-med T500471

- Wedge shaped base with **dorsal flexion at 10°**
- **Extended sole** and **end of foot fitting** with Velcro strap
- **Rounded heel** for safe comfortable walking
- **Seamless interior** avoiding pressure zones

	Shoe size	Foot length
XS	32 - 34	20 - 21 cm
S	35 - 37	22 - 23 cm
M	38 - 40	24 - 25 cm
L	41 - 43	26 - 27 cm
XL	44 - 46	28 - 29 cm

Pero-med

T479722

- **Short brace**, extends above the malleoli
- Its design allows it to be discreetly inserted into the shoe

Models: right - left

1	31 - 32
2	33 - 34
3	35 - 37
4	38 - 40
5	41 - 43
6	44 - 46
7	47 - 49

Shoe size

Pero-med AFO III/II

T479652

- **Effective right-angle** foot **support** to secure the walking motion
- Extra comfort thanks to its **anatomical shape** and **light weight**
- Its design allows it to be worn with all types of flat shoe

Models: right - left

S	35 - 37
M	37 - 39
L	39 - 41
XL	41 - 44

Shoe size

Night orthosis for Hallux Valgus

Pero-med Adapt

T479601

- Effective **right-angle** foot support to secure the walking motion
- Extra comfort provided by the sliding **strap**, avoiding irritation
- Morphological fit due to the **thermomouldable plastic**
- Its design allows it to be discreetly inserted into the shoe

Models: right - left

S	35 - 37
M	37 - 39
L	39 - 41
XL	41 - 44

Shoe size

HalluxPro night

T479302

- Extra comfort thanks to its **light weight and anatomical shape**
- Simple to use thanks to the **Velcro fastening** which allows for a better morphological adjustment
- For night-time use, not recommended for walking

Models: right - left

	Shoe size	Length (cm)
S	< 38	< 24,3
M	38 - 41	24,3 - 26,3
L	> 41	> 26,3

NEW

SpryStep

U01701

Dynamic Ankle Foot Orthosis for foot drop of neurological, traumatic or muscular origin

Features and benefits:

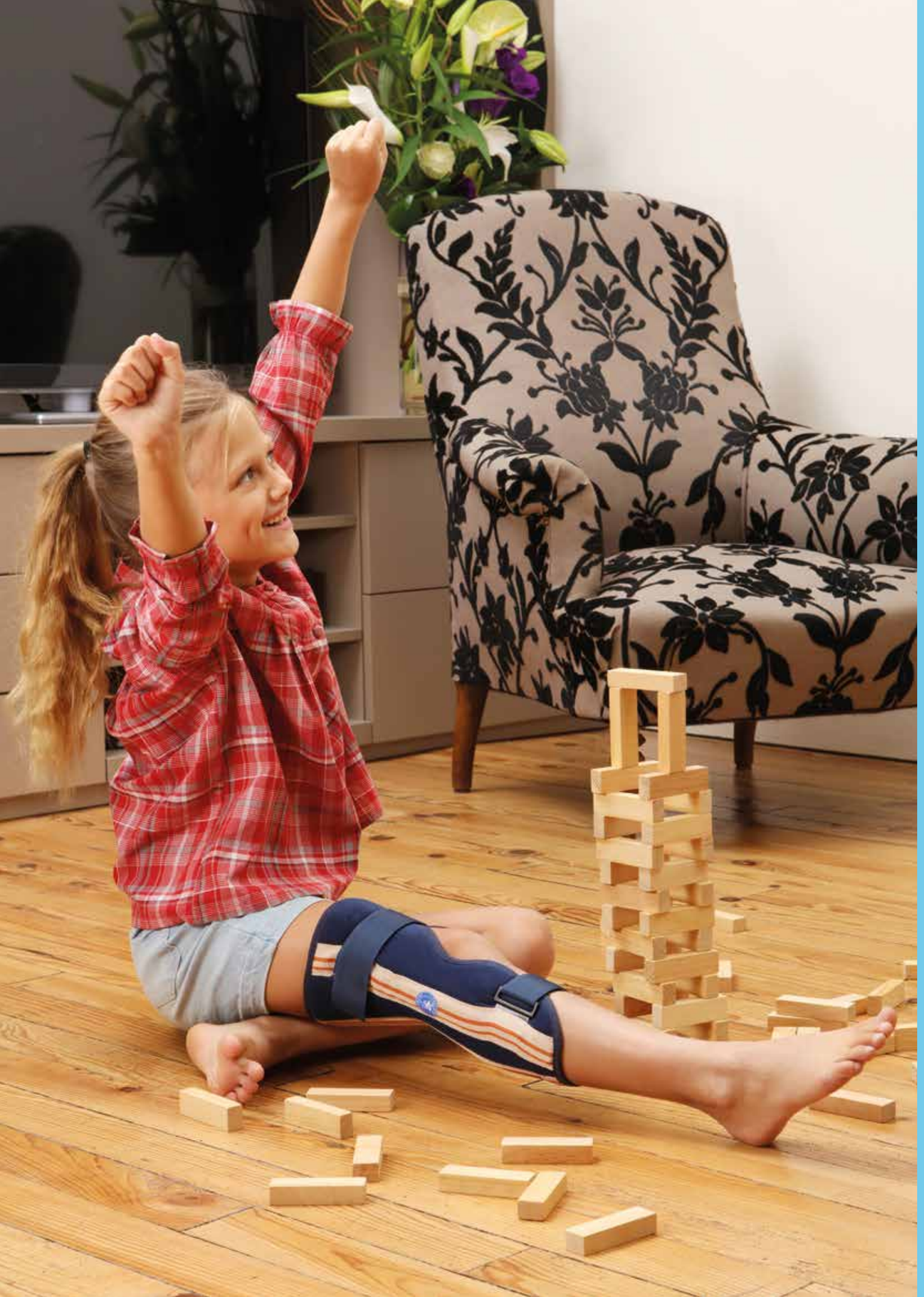
- A mix of composite materials which allows to the patient, a **natural walking support**
- Posterior lateral strut with an helicoidal shape which skirts malleolus in the **anatomy respect** and brings additional comfort
- Ajustable footplate and straps to fit to the patient morphology
- Ajustable footplate and straps: 5 references which cover all the patient needs: optimised stock
- **No specific tooling required**

2 models: right and left

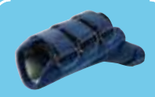
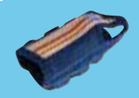
	Length	Shoe size
XS	30 cm	33 - 37
S	32 cm	36 - 39
M	34 cm	38 - 42
L	36 cm	41 - 44
XL	38 cm	44 - 47

Shoe size

Find out more



JUNIOR RANGE

	PRESCRIPTION **Which?**	INDICATION **Which?**	JUNIOR PRODUCT **Which?**
TORSO AND UPPER LIMBS	**CERVICAL COLLAR**	Cervical spine pain	**Ortel** C1 junior
	CLAVICULAR STRAPS	Clavicle fracture	**Ligaflex**® junior
	WRIST/THUMB SPLINT	Epiphyseal and tendon injuries of the wrist or thumb Fracture of the scaphoid	 **Manu**rhizo junior
	WRIST BRACE	Epiphyseal injury of the wrist Wrist tendinitis	 **Manu**Immo® junior
LOWER LIMB	**KNEE BRACE**	Proprioception	**Genu**Action junior
	KNEE SPLINT	Epiphyseal injury Knee immobilisation at 0°	**Ligaflex**® Immo 0° junior
	ANKLE BRACE	Proprioception	**Malleo**Action junior
	ANKLE SPLINT	Epiphyseal injury Malleolar fractures	**Ligacast**® junior

UPPER LIMB

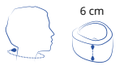
Neck

Ortel C1 junior

2620 001 004

Soft cervical collar

- **Removable rigid insert** for adjustable support
- **Precise velcro adjustment**



24 - 27 cm

Shoulder

Ligaflex® junior clavicular straps

26400229900499

Clavicular immobilisation straps

- **Secure immobilisation** thanks to a **cutting system for adjustment** to the child's size (shoulder width less than 34 cm)
- **Dorsal foam anchoring pad** for optimum comfort
- Velcro fitting system and buckle fastening

Universal size (shoulder width < 34 cm)

Wrist - Thumb

Manurhizo junior

2630 02

Wrist and thumb immobilisation splint

- **Firm support for the thumb and wrist** thanks to the **2 conformable** and **anatomical stays** (palm and thumb column)
- Comfortable with its **foam-lined inner fabric**
- **4 velcro tightening straps** for easy fitting and removal

2 models: right and left

10 - 13 cm

Wrist

ManuImmo® junior

2635 02

Wrist immobilisation splint

- **Firm wrist support** thanks to the conformable and **anatomically-shaped palm stay**
- **4 velcro tightening straps** for easy fitting and removal

2 models: right and left

10 - 13 cm

LOWER LIMB

Knee

GenuAction junior

2615 01

Elastic compressive knee support

- **Support and proprioception** provided by the elastic compressive knit (approximately 23 mmHg)
- **Anatomically-shaped knit** with comfort zones over the kneecap and behind the knee

28 - 31 cm

Ligaflex® Immo 0° junior

2610 001 004

Knee immobilisation splint at 0°

- **Immobilisation** provided by 4 radio-transparent conformable stays
- Velcro tightening straps for better support

30 - 35 cm

Ankle

MalleoAction junior

2625 01

Elastic compressive ankle support

- **Support and proprioception** provided by the elastic compressive knit (approximately 22.5 mmHg)
- **Anatomically-shaped knit**, comfort zone over the malleoli and patented pull tabs

16 - 19 cm

Ligacast® junior

2600 001 004

Stabilising ankle brace with foam inserts

- **Firm support** for the ankle thanks to 2 rigid side shells
- **Adjustment to fit the child's anatomy**: height-adjustable heel strap, precise velcro adjustment of straps
- Comfortable thanks to the **foam inserts**

< 140 cm

FIRST AID

Aluform

- **Adjustable immobilisation** of the fractured limb provided by the combination of an adjustable aluminium frame and polyethylene supports
- Thick foam padding for comfort
- Easy to fit thanks to the Velcro strap fastening system
- Easy to clean (washable foam covers)

		Thuasne ref.
Aluform adjustable splint	Leg	7400
	Fore-arm	7401
	Elbow	7402
	Child's leg	7404
Aluform bag		7407

Aluform leg
7400

Aluform elbow
7402

Other products

C.H.U.T.
Hæmostatic cushion
5004

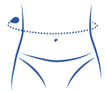
Isothermal blanket
7551

Instant ice pack
7281

Triangular bandage
7545

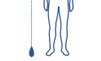
MEASUREMENTS

BACK

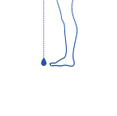


Measure the waist at the level of the navel

Measure the hip circumference



Measure the distance between the top of the hips and the solar plexus



Measure the circumference of the bust passing under the armpits at widest point

NECK

Measure the neck girth

Measure the neck height, head upright, from the trachea to the chin

SHOULDER

Measure the length between the fold of the elbow and the base of the fingers

Measure the arm circumference at the level of the biceps

ELBOW

Measure the X cm circumference under the elbow

WRIST

Measure the circumference of the wrist

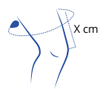
Measure the width of the hand at the level of the metacarpals

Measure the circumference of the finger at the base of the nail

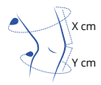
Measure the width of the thumb at the level of the second phalanx

KNEE

Measure the circumference of the knee in the middle of the patella, knee slighly bent



Measure the circumference of the thigh at the widest or at X cm above the knee



Measure the circumference of the thigh at X cm above the knee and the width of the calf Y cm below the knee

Measure the width of the knee

Measure the height

Measure the floor-to-crotch height

ANKLE

Measure the circumference of the ankle above the malleolus

Measure the circumference of the instep

Measure the shoe size

THUASNE

WINGS
FOR YOUR HEALTH

THUASNE
120, rue Marius Aufan – CS 10032 – 92309 Levallois-Perret Cedex – France
Tel. + 33 1 41 05 92 92 – Fax + 33 1 41 05 89 91
Email : sales.export@thuasne.fr

www.thuasne.com

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