



THUASNE

Rebel Reliever[®]

OSTEOARTHRITIS (OA)
BRACING SOLUTIONS

Designed for patients with
knee OA¹ who want an
effective brace to relieve
their knee pain¹

Clinically proven to reduce pain
& improve quality of life¹



Knee OA²:

Affects **30% of people aged 60 or over**³

Each year, **86 million people** develop knee OA³

Women are more affected than men³



MAIN INDICATIONS

- Symptomatic unicompartmental femorotibial osteoarthritis (moderate to severe)
- Knee offloading for post-traumatic, post-operative or degenerative conditions
- Joint instability/laxity
- Alternative to osteotomy or leg misalignment surgery
- Conservative treatment of knee ligament injuries and/or ruptures (cruciate and/or lateral ligaments)

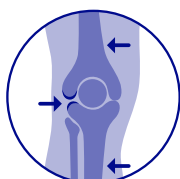


PATIENT PROFILE

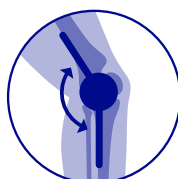
- Patient suffering from moderate to severe knee OA
- Patient with medium to high activity level
- Patient with ligament instabilities
- Adapted for heavy duty users



MODES OF ACTION



OFFLOADING
Adjustable 3-point leverage system



MOTION CONTROL
Flexion and extension stops

Rebel Reliever®

A clinically proven efficient¹ knee brace

New

Comfort: removable foam inner padding and condylar pads.

New

Ease of application: 4 posterior quick-release buckles improve the user experience by allowing to don and doff the brace easily⁴.

Knee offloading⁴: adjustable 3-point leverage system (Loadshifter technology⁴) with up to 9° correction in varus or valgus.

Motion control: adjustment of extension (from 0 to 40°) and flexion (from 0 to 90°) with a tool-less system.

Ligament stabilisation: rigid frame with TM5+ hinge that reproduces the natural movement of the knee⁴.

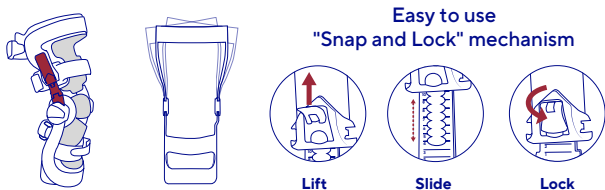
Tool-less offloading setting (Snap Lock).

Suspension⁴: synergistic suspension strap, tibial bolster to avoid rotation. C/S (Compression/Suspension) package enhances support by preventing slipping.

New

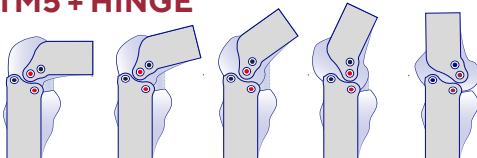
Improved product maintenance: alligator tab riveted to the structure allows a quick change of strap by simply opening/closing the tab.

LOADSHIFTER TECHNOLOGY









Mechanical offloading of the affected compartment¹ provided by a significant varus and valgus correction of the thigh shell. On average, 36% reduction of force through the knee⁵ leading to less pain, better function and clinical benefit⁴.

TM5 + HINGE



Roll-back and glide movement similar to natural movement⁶. No pistoning, no migration⁶. Ligament protection, prevents tibial instabilities^{4,6}.

	 15 cm	 ATTENTION Knee width	 15 cm	
STANDARD SIZES	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

	 15 cm	 ATTENTION Knee width	 15 cm	
FITTED SIZES	S/XS	39 - 47 cm	8.5 - 9.5 cm	28 - 32 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

Flexion/Extension limitations

Flexion	0°	30°	45°	60°	75°	90°	-
Extension	0°	5°	10°	15°	20°	25°	30°

Spare parts for Rebel Reliever®

Femoral and tibia padding kit from XS to XXL (pads with strap pads, right or left): **UU072**

Condylar pads (universal size and side): **UU020001001**

Strap kit XS/SM, MD/LG and XL/2XL, bilateral): **UU033**

Overview of Thuasne offloading range for knee OA



Action Reliever®

Soft offloading knee brace

Discretion

Featuring compression and a 3-point strapping system, the Action Reliever® is low-profile and offers discreet relief from OA pain.



New

UniReliever™

Single upright OA knee brace

Versatility

The new single upright OA knee brace offers powerful & precise correction in one light, flexible and easy to use device. The most versatile option within the Reliever range.



Rebel Reliever®

Offloading rigid knee brace

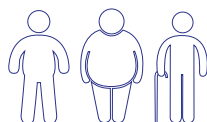
Robustness

Improved Rebel Reliever® with quick-release buckles, easier to replace straps, and contoured padding. Adapted for heavy duty users.

If the patient can be fitted with any of these braces, please make sure to choose, with their agreement, the device that is best suited to their expectations and needs (low profile, type of activity...)



Patients with medium activity level



Mainly senior adult with knee OA
Patients with dexterity issues
Patients with atypical body shape



Patients with femoro-tibial osteoarthritis (moderate to severe)
Patients with medium to high activity
Patients with ligament instabilities

⁽¹⁾ Thoumie Philippe, Marc Marty, Bernard Avouac, Adeline Pallez, Arnaud Vaumousse, Linh Pham Thi Pipet, André Monroche, et al. 2018. "Effect of Unloading Brace Treatment on Pain and Function in Patients with Symptomatic Knee Osteoarthritis: The ROTOR Randomized Clinical Trial." Scientific Reports 8 (1).

⁽²⁾ OA = Osteoarthritis.

⁽³⁾ Cui A, Li H, Wang D, Zhong J, Chen Y, Lu H. Global, regional prevalence, incidence and risk factors of knee osteoarthritis in population based studies. EClinicalMedicine. 2020;29(30):100587. Published 2020 Nov 26. doi:10.1016/j.eclinm.2020.100587.

⁽⁴⁾ Internal CE marking data.

⁽⁵⁾ Lamberg, Eric M., Robert Streb, Marc Werner, Ian Kremenec, and James Penna. 2016b. "The 2 and 8 Week Effects of Decompressive Brace Use in People with Medial Compartment Knee Osteoarthritis." Prosthetics and Orthotics International 40 (4): 447-453.

⁽⁶⁾ A2S biomechanical study «Biomechanical study of the stride during use of different braces» 2020, including the Rebel® Standard, a rigid ligament brace with the articulation TM5.

Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region. All the medical devices mentioned on this document are CE marked according to the Regulation 2017/745 on medical devices. Products mentioned in this document are CE class I. Please read carefully the instructions for use, indications and contraindications of the product. Ref. 2302072 (2023-03). Photos: Studio Caterin - Jennifer Williams.