

REBOUND[®] ACL

The next generation
of ACL bracing



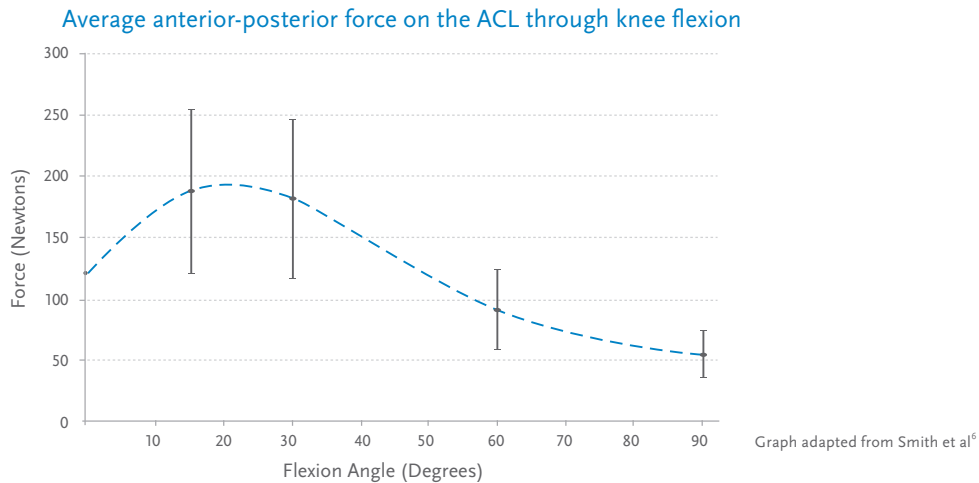
INDICATIONS FOR USE

- Non-surgical treatment of ACL ruptures
- Post-surgical rehabilitation for:
 - Partial ACL tears
 - ACL reconstruction /augmentation
 - ACL revision

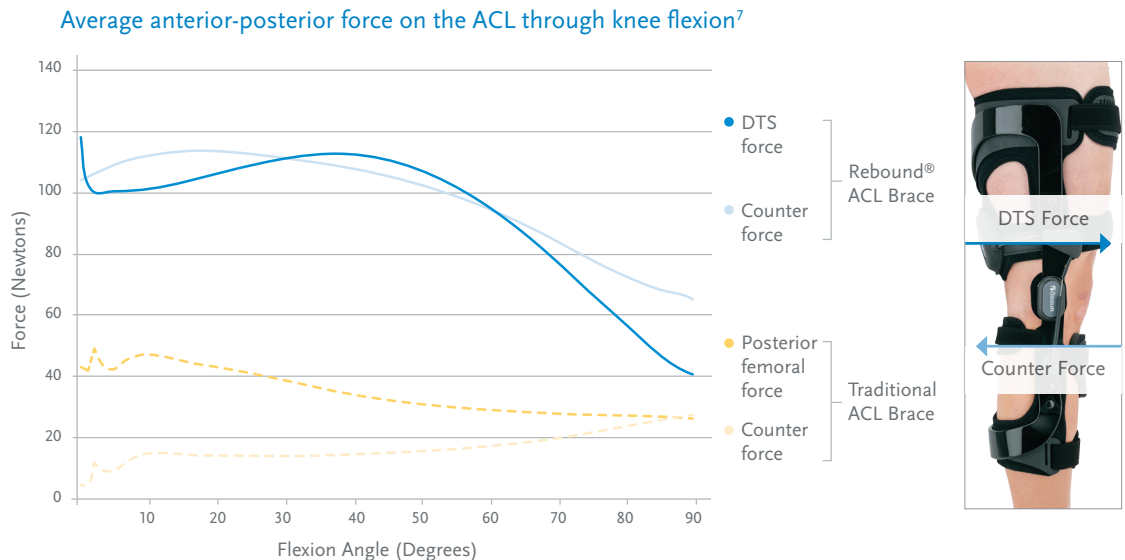
ACL INJURIES & THE IMPORTANCE OF DYNAMIC LOADING

Acute anterior cruciate ligament (ACL) injury can lead to unsatisfactory knee function, decreased activity and poor knee related quality of life.¹ In addition to causing mechanical instability, injury to the ACL also leads to a functional deficit in the form of diminished proprioception of the knee joint.²⁻³

Long-term consequences of an ACL injury include lowered activity levels, chronic instability, high risk of further injury or re-injury and early onset of knee osteoarthritis (OA)³⁻⁵—on both the injured and non-injured knee. Therefore, anatomically correct positioning during functional rehabilitation is important.



Current ACL braces either act as barriers to normal motion or apply a static load. Therefore Össur has developed the Rebound ACL brace to apply a physiologically correct dynamic force to the ACL during rehabilitation. By counteracting the anatomical loading characteristics of the ACL, a Dynamic Tension System™ (DTS) decreases the load on the ACL/the graft during knee flexion to optimize healing during accelerated rehabilitation.



FUNCTIONAL HEALING® – WHERE MOBILITY MEANS RECOVERY

Our expertise in Injury Solutions has driven us to take the next step forward by developing indication-specific products which are designed to optimize healing while maintaining function and mobility.

The Functional Healing icon is Össur's seal of approval for more effective, less painful healing, accompanied by improved mobility.

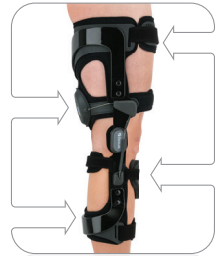
REBOUND® ACL

The next generation of ACL bracing

The custom made Rebound ACL brace is designed to apply a physiologically correct, dynamic force optimum for functional rehabilitation of anterior cruciate ligament (ACL) ruptures, whether during non-surgical treatment or following surgical reconstruction.

Dynamic force

The dynamic load of the Rebound ACL on the femur is generated by applying a anterior directed dynamic force on the thigh area and opposing counter forces on the anterior aspect of the tibia.



Reduced load on the ACL

The Dynamic Tension System™ (DTS) is designed to increase the load on the femur as the knee goes from flexion into extension, providing an anterior-directed force necessary to decrease load on the ACL to allow it to heal.

Specific load adaptation

The Rebound ACL allows for specific load adaptation according to the patient's individual anatomy and rehabilitation related requirements.



ORDERING INFORMATION

REBOUND ACL

Description	Right	Left
Rebound ACL	B-124501156	B-124501157

*Order using Össur's SmartMeasure iOS App

THE DATA

1. Frobelle RB, Roos HP, Roos EM, Roemer FW, Ranstam J, Lohmander LS. Treatment for acute anterior cruciate ligament tear: five year outcome of randomised trial. *BMJ*, 2013 Jan 24;346:f232
2. Relph N, Herrington L, Tyson S. The effects of ACL Injury on knee proprioception: a meta-analysis. *Physiotherapy*, 2014 Sep;100(3):187-95.
3. Dhillon MS, Bali K, Prabhakar S. Differences among mechanoreceptors in healthy and injured anterior cruciate ligaments and their clinical importance. *Muscles, ligaments and Tendons Journal* 2012; 2 (1): 38-43
4. Kiapour AM, Murray MM. Basic science of anterior cruciate ligament injury and repair. *Bone Joint Research*. 2014 Feb; 3(2): 20–31.
5. Simon D, Mascarenhas R, Saltzman BM, Rollins M, Bach BRJ, MacDonald P. The Relationship between Anterior Cruciate Ligament Injury and Osteoarthritis of the Knee, *Advances in Orthopedics Volume 2015*, Article ID 928301.
6. Smith SD, LaPrade RF, Jansson KS, Asbjørn A, Wijdicks CA. Functional bracing of ACL injuries: current state and future directions. *Knee Surg Sports Traumatol Arthrosc* 2014; 22: 1131–1141.
7. Össur Biomechanical Lab, Foothill Ranch, California USA, 2015

ÖSSUR'S FUNCTIONAL HEALING® SOLUTIONS

REBOUND® ACL



INDICATION

Functional rehabilitation of anterior cruciate ligament (ACL) injuries, whether during non-surgical treatment or following surgical reconstruction.

REBOUND® PCL



INDICATION

Functional rehabilitation of posterior cruciate ligament (PCL) injuries, whether during non-surgical treatment or following surgical reconstruction.

REBOUND® CARTILAGE



INDICATION

For functional knee rehabilitation following cartilage and meniscal repair.

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