

LEGENDARY BRACE WITH NEXT GENERATION TECHNOLOGY

DonJoy pioneered the concept of functional knee bracing over 30 years ago. We've led the progression of performance ever since by studying the body, listening to athletes, consulting physicians and pushing the boundaries of innovation.

The result – complete confidence for those who wear DonJoy braces, and those who prescribe them.

DonJoy braces have become standard equipment in many rehabilitation protocols for knee injuries in over 44 countries.

The new FULLFORCE™ design is our first 'off-the-shelf' brace to combine two patented DonJoy technologies (4-Points-of-Leverage™ & LoPro FourcePoint™ hinge technology) which together provide the most powerful and clinically-proven solutions available to protect the ACL.

4-POINTS-OF-LEVERAGE™:

Through the 4-Points-of-Leverage™ rigid cuff and strap configuration, a posterior oriented force is applied to the tibia preventing anterior movement which stress the ACL. Also, by reducing the anterior translation, the anterior lateral instability (endorotation in ACL deficiency knee) is reduced, allowing patients to improve their knee stability.

POINT OF LEVERAGE 1

The femur is anchored by a cuff placed at the top of the anterior thigh.

POINT OF LEVERAGE 2

The tibia is anchored by a cuff placed at the bottom of the posterior calf.

POINT OF LEVERAGE 3

A strap across the back of the lower thigh pushes the femur anteriorly.

POINT OF LEVERAGE 4

A strap placed on the anterior tibia applies an active constant load to prevent anterior tibial translation.

LoPro FOURCEPOINT™ HINGE TECHNOLOGY:

LoPro FourcePoint™ is the thinnest DonJoy hinge to include the FourcePoint™ hinge technology.

Small knee flexion angles contribute to ACL injuries. The FourcePoint™ hinge technology increases the knee flexion angles therefore reducing the time spent in the ACL "at risk" positions.

The FourcePoint™ hinge enhances DonJoy's 4-Points-of-Leverage System™ by dampening knee-joint extension and improving the overall mechanical performance of the brace and increasing flexion angles while simultaneously reducing shear forces at the knee.

The FourcePoint™ hinge utilises a spring mechanism which engages in the last 25 degrees of extension and gradually increases the resistance during knee extension.



FULLFORCE™

Active protection at all times. The FullForce™ brace has been designed to guarantee maximum comfort while providing additional protection to a stable reconstructed knee.

INDICATIONS:

- Mild to Moderate protection for ACL injuries
- Mild to Moderate ACL and CI injuries
- Assistance during rehabilitation after ACL or CI surgery
- Additional protection for stable reconstructed knee

USER PROFILE:

- Recreational athletes
- Moderate lifestyle activities

FEATURES & BENEFITS:

- Clinically proven 4-Points-of-Leverage™ design & FourcePoint™ hinge technology to maximise ACL protection
- Aircraft aluminum grade frame to reduce the brace weight and to improve comfort
- Mouldable frame for custom fitting
- Low profile design to minimise visual brace appearance and to reduce catching on clothes
- Internally mounted swiveling strap/tabs to help to accommodate leg movement
- Swooping thigh cuff for inner thigh clearance & bilateral use
- Carbon fiber finish

ORDERING INFORMATION

Part Number	Description
11-3220-x	ACL, Short Calf Length, Right
11-3221-x	ACL, Short Calf Length, Left
11-3222-x	CI, Short Calf Length, Right
11-3223-x	CI, Short Calf Length, Left
11-3258-x	ACL, Standard Calf Length, Right - (Coming Soon)
11-3259-x	ACL, Standard Calf Length, Left - (Coming Soon)
11-3264-x	CI, Standard Calf Length, Right - (Coming Soon)
11-3265-x	CI, Standard Calf Length, Left - (Coming Soon)

Sizes Available: XS-XXXL Measurements taken 15cm above mid-patella
x = 1 = XS = 13"-15 1/2" (33-39 cm)
x = 2 = S = 15 1/2"-18 1/2" (39-47 cm)
x = 3 = M = 18 1/2"-21" (47-53 cm)
x = 4 = L = 21"-23 1/2" (53-60 cm)
x = 5 = XL = 23 1/2"-26 1/2" (60-67 cm)
x = 6 = XXL = 26 1/2"-29 1/2" (67-75 cm)
x = 7 = XXXL = 29 1/2"-32" (75-82.5 cm)

ACCESSORIES

Part Number	Description	Size
11-0075-x-00000	Lycra® Undergarment	S-XXL
11-0122-x	Neoprene Undergarment	XS-XXL
11-0398-9-00000	Full Extension Stop	Universal
11-1095-9-06000	Calf Pinch Guard	Universal
11-1525-x	Tru-Pull® Adv. Attachment	XS-XXXL

FULLFORCE: A BRACE CREATED BY LISTENING TO YOUR NEEDS



FULLFORCE™ HINGE SPECIFICATION:

PEAK RESISTANCE OF THE FOURCEPOINT™ HINGE:

Setting off : 0kg (or 0lbs)
Setting on, no screw inserted: 0.45kgf (or 1lbs)
Setting on, screw position 1: 0.90kgf (or 2lbs)
Setting on, screw position 2: 1.35kgf (or 3lbs)
Setting on, screw position 3: 1.80kgf (or 4lbs)

FLEXION/EXTENSION STOPS:

Extension:
10° stop installed
0°, 20°, 30°, 40° available
Flexion:
45°, 60°, 75°, 90° included



►DONJOY – A BRACE FOR EVERY CONDITION!

	Custom Made	ACL Protection		
		High	Moderate	Mild
Defiance	✓			
Armor				
FullForce				

►CLINICAL EVIDENCE

STUDIES THAT SHOW THE 4-POINTS-OF-LEVERAGE CONFIGURATION SIGNIFICANTLY REDUCE ACL STRAIN:

Fleming BC, Renstrom PA, Beynnon BD, Rengstrom PA, Peura GD:
2000 *The Influence of Functional KneeBracing on the Anterior Cruciate Ligament Strain Biomechanics in Weightbearing and Nonweightbearing Knees,*
The American Journal of Sports Medicine: Vol.28 (6) : 815-824

Beynnon BD, Fleming BC, Peura GD , Johnson RJ, Rengstrom PA, Nichols CE, Pope MH: An In-Vivo Investigation of Anterior Cruciate Ligament Strain:
1995 *The Effect of Functional Knee Bracing and Attachment Strap Tension,*
41st Annual Meeting, Orthopaedic Research Society

Beynnon BD, Pope MH, Wertheimer CM, Johnson RJ, Fleming BC, Nichols CE, Howe JC:
1992 *The Effect of Functional Knee Braces on Strain on the Anterior Cruciate Ligament in Vivo,*
The Journal of Bone and Joint Surgery (Am.), Vol.74-A (9) : 1298-1312

STUDIES THAT SHOW THE POSITIVE EFFECT OF THE FOURCEPOINT™ HINGE:

Lin CF, Liu H, Garrett WE, Yu B:
2008 Effects of a Knee Extension Constraint Brace on Selected Lower Extremity Motion Patterns During a Stop-Jump Task,
Journal of Applied Biomechanics, Vol. 24 : 158-165

Yu B, Herman D, Preston J, Lu W, Kirkendall DT, Garrett WE:
2004 Immediate Effects of a Knee Brace With a Constraint to Knee Extension on Knee Kinematics and Ground Reaction Forces in a Stop-Jump Task,
The American Journal of Sports Medicine, Vol. 32 (5) : 1136-1143

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