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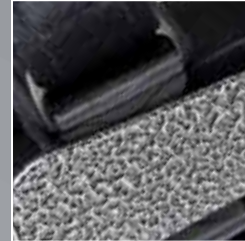
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Together in Motion™

DONJOY®

Performance & Lifestyle



Armor ForcePoint™

Unparalleled strength,
reliability and proven
ACL protection

 **DJO™**
GLOBAL

▶ **ARMOR FOURCEPOINT™**

Unparalleled strength, reliability and proven ACL protection

The new Armor FourcePoint™ design combines a strong lightweight aircraft quality aluminium frame and **the first low profile FourcePoint™ hinge** with a protective steel outer plate.

By combining 2 patented DonJoy technologies, the **4-Points-of-Leverage™** and **FourcePoint™ hinge technology**, the new Armor FourcePoint™ provides one of the **most powerful clinically-proven solutions to protect the ACL**.

▶ **USER PROFILE**

- Contact and extreme sports
- Highly active lifestyles

▶ **INDICATIONS**

- Moderate to severe ACL, LCL and MCL injuries
- Prophylactic ligament protection

▶ **FEATURES & BENEFITS**

1 4-POINTS-OF-LEVERAGE™ DESIGN REDUCES ACL STRAIN

Through the 4-Points-of-Leverage™ rigid cuff and strap configuration, a posterior force is applied to the tibia, preventing anterior movement which stresses the ACL. Also, by reducing the anterior translation, the anterior lateral instability 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.

Anchor Points 1 & 2
Loading Points 3 & 4



2 FOURCEPOINT™ HINGE TECHNOLOGY

Knee flexion angles less than 60 degrees are considered “at risk” and contribute to ACL injuries.

The FourcePoint™ hinge technology increases the knee flexion angles thereby reducing the time spent in the ACL “at risk” positions. It enhances DonJoy’s 4-Points-of-Leverage System™ by dampening knee extension, and reducing shear forces at the knee.

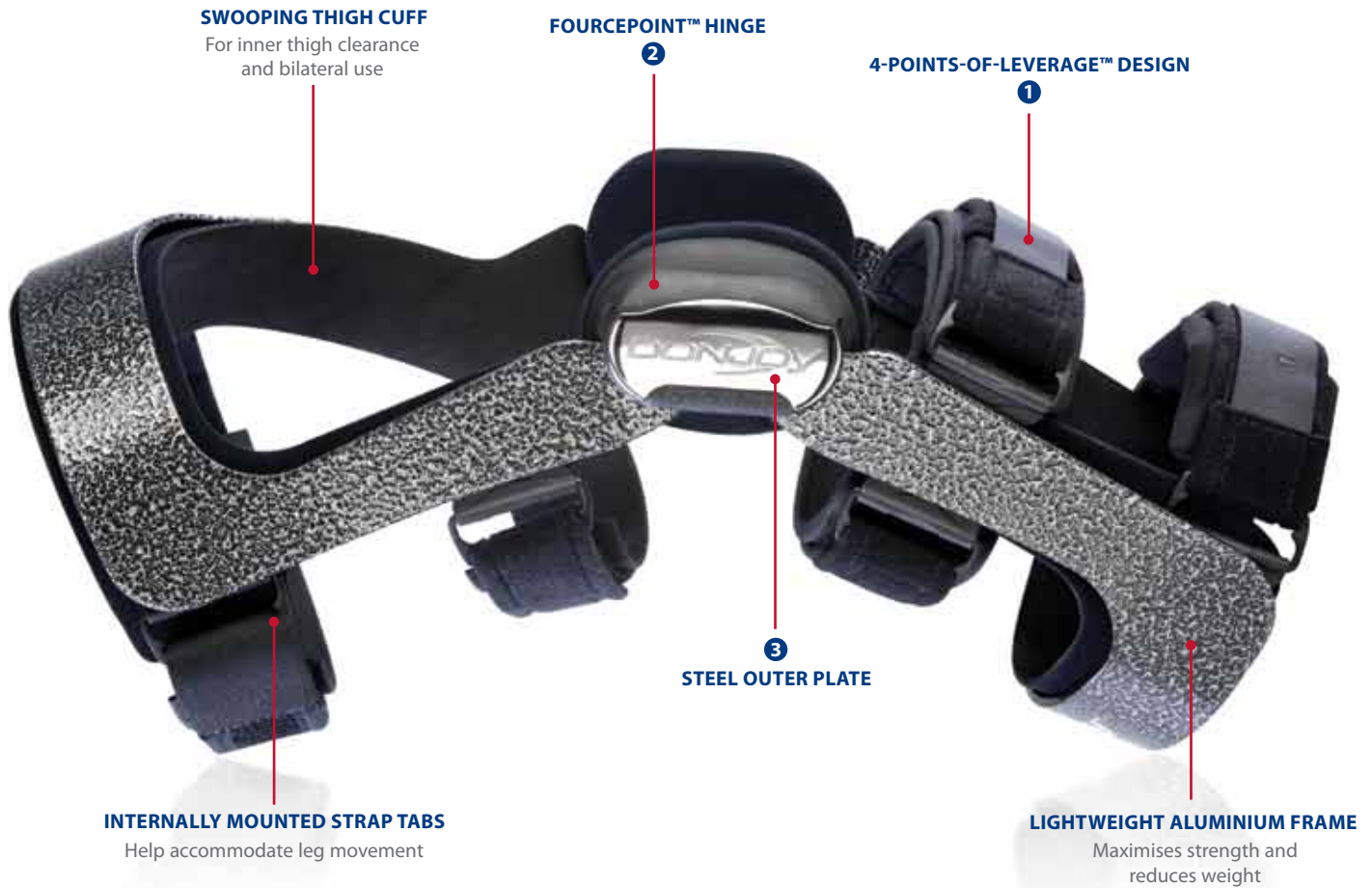
The FourcePoint™ hinge uses a spring mechanism which engages in the last 25 degrees of extension and provides resistance during knee extension.



3 LO PRO HINGE WITH STEEL OUTER PLATE

The low profile FourcePoint™ hinge features a new, sleek, protective steel outer plate. This makes it the thinnest yet toughest hinge available, able to withstand the impacts of contact or extreme sports.





► ORDERING INFORMATION

Part Number	Description	Leg
11-1440-x	ACL, Short Calf Length, (15"/38cm)	Right
11-1441-x	ACL, Short Calf Length, (15"/38cm)	Left
11-1442-x	ACL, Standard Calf Length (16"/40.6cm)	Right
11-1443-x	ACL, Standard Calf Length (16"/40.6cm)	Left

Part Number	Description	Leg
11-0075-x-00000	Lycra® Suspension sleeve	S-XXL
11-0122-x	Neoprene Suspension sleeve	XS-XXL
11-1006-x-06000	Patella/shin Impact Guard	S-XXL
11-1525-x	Tru-Pull® Adv. Attachment	XS-XXXL
11-0398-9-00000	Full Extension Stop	Universal

Size	Inches	Centimetres
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

► CLINICAL EVIDENCE

Studies that show the 4-Points-of-Leverage™ configuration significantly reduces 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 Non weightbearing 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:
1995 - An In-Vivo Investigation of Anterior Cruciate Ligament Strain: 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 effectiveness of the FourcePoint™ hinge in reducing shear forces:

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