

**DONJOY**<sup>®</sup>  
*DEFIANCE*<sup>®</sup> PRO

enovis<sup>™</sup>

# The Undisputed Market Leader

DonJoy's Defiance® has been the world's leading custom knee brace for over 20 years. Over 2 million Defiance braces have been prescribed to elite professional athletes, middle-school soccer players, and athletes of all shapes, sizes, ages and genders.

Now, Defiance PRO pushes our dominance even farther, boasting the greatest strength-to-weight ratio of any knee brace on the market.

Professional athletes choose Defiance PRO for the ultimate confidence and freedom to move.



**NEW LOW-PROFILE DESIGN:**

The trusted high-performance carbon fiber frame now lighter and 5mm lower profile than Defiance Classic

The Defiance® PRO can be custom-built and shipped within 24 hours



**NEW C-6 LINER MATERIAL:**

Soft to the touch, moisture wicking and anti-microbial



**LESS THAN 600g:**

Custom carbon fiber frame is built tough

**NEW SILICONE CONDYLE PADS:**

Comfortably help keep the brace in place

**MEMORY FOAM CONDYLE PADS:**

Contour to the knee (not shown)

**SWIVELING INTERNALLY MOUNTED STRAPS:**

Intimate fit around the anatomy for a lighter, more comfortable feel and improved anti-migration

**NEW SOFT TOUCH STRAP ENDS:**

Flexible and strong hold keeps straps secure



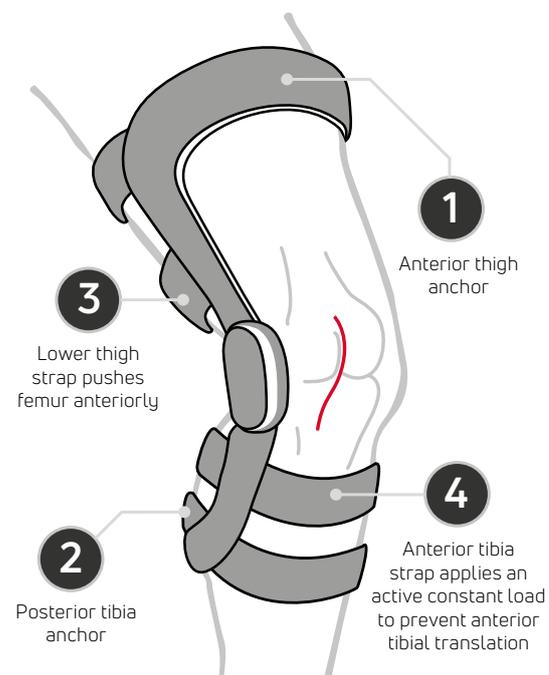
# Our technology drives us ahead of the competition

We study body mechanics and listen to athletes. We consult physicians and push the envelope of technological innovation.

Our braces combine the most advanced technology, strongest materials and highest craftsmanship. Of course, all of our knee ligament braces are constructed for excellent medial support to aid MCL and LCL indications.

**DONJOY® IS THE MOST-PRESCRIBED CUSTOM BRACE IN SPORTS.**

## Clinically proven ACL protection: Four-Points-of-Leverage™ System



DonJoy was first in the market to offer the game-changing Four-Points-of-Leverage™ System, which is clinically proven<sup>1,3</sup> to help decrease ACL strain by at least 50%.

- Helps decrease ACL strain by at least 50%<sup>1,2,3</sup>
- Significantly reduces tibial rotation vs unbraced and sleeved groups<sup>4</sup>
- Increases patient confidence after ACL reconstruction<sup>5</sup>

By changing the strapping system, our technology helps allow posterior femoral loading for PCL injuries.

# DonJoy® FourcePoint™ Hinge

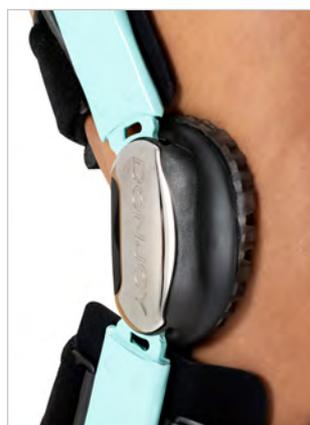
FourcePoint™ hinge increases flexion angles, reducing anterior shear forces and strain on the ACL and thus significantly decreasing the chance of injury.<sup>6,7,8,9</sup>

- Helps keep both knees out of the at risk position<sup>6,8,9</sup>
- NO significant performance limitations<sup>6</sup>
- Improves joint mechanics of both knees post ACL surgery.<sup>6,9</sup>



## FOURCEPOINT ACL:

This patented hinge design helps protect the ACL by incorporating a dampening mechanism in the last 25° of extension to help keep the knee out of the at risk position and increase the posterior tibial load.



## FOURCEPOINT PLUS:

The Plus hinge provides ACL protection benefits of the FourcePoint hinge with a reinforced steel outer plate ideally suited for the rigors of high-impact or collision sports



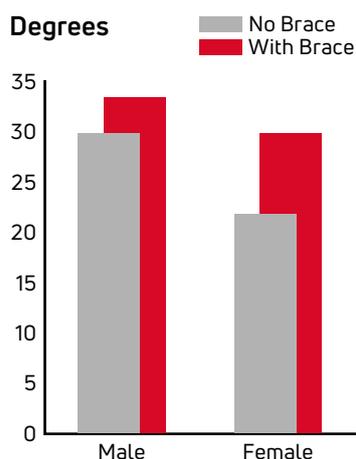
## OA ADJUSTABLE HINGE:

The custom OA frame offers 1 to 7 degrees of off-load. The telescoping hinge helps provide additional off-loading up to 3 degrees. The memory foam condyle pads are included for increased patient comfort and compliance.



## STANDARD LOW-PROFILE HINGE:

The polycentric hinge stabilizes the knee while matching natural knee kinematics. Polycentric hinges also maximize the anterior/posterior and varus/valgus stabilizing forces of the brace. This can be used for ACL, PCL, combined instability, MCL, or LCL indications.



## FLEXION ANGLE AT LANDING:

The anterior shear force applied on the tibia was reduced by 9% for females and 13% for males<sup>4</sup>

The decrease in anterior shear force on the tibia should substantially reduce the load on the ACL.<sup>2,4</sup>

## REFERENCES:

1. Beynnon BD, Pope MH, Wertheimer CM, Johnson RJ, Fleming BC, Nichols CE, Howe JG. Journal of Bone & Joint Surgery. Am. 1992; 74:1298-1312.
2. Beynnon BD, Johnson RJ, Fleming BC, Peura G, Renstrom PA, Nichols CE. American Journal of Sports Medicine. 1997; 25(3):353-360.
3. Fleming BC, Renstrom PA, Beynnon BD, Engstrom B, Peura G. The Influence of Functional Knee Bracing on the Anterior Cruciate Ligament Strain Biomechanics in Weightbearing and Nonweightbearing Knees. American Journal of Sports Medicine. 2000; 28 (6): 815-824.
4. Giolis D et al. Knee braces can decrease tibial rotation during pivoting that occurs in high demanding activities. Knee Surg Sports Traumatol Arthrosc. 2011 Aug;19(8): 1347-54
5. Risberg MA, Beynnon BD, Peura GD, Uh BS. Proprioception after anterior cruciate ligament reconstruction with and without bracing. Knee Surg Sports Traumatol Arthrosc. 1999;7(5):303-9
6. Lin CH, Liu H, Garrett WE, Yu B. Effects of Knee Extension Constraint Brace on Selected Lower Extremity Motion Patterns During a Stop-Jump Task. Journal of Applied Biomechanics. 2008;4:158-165.
7. Markolf KL, Gorek JF, Kabo JM, et al. Direct measurement of resultant forces in the anterior cruciate ligament. Journal of Bone & Joint Surgery. Am. 1990; 72:557-567.
8. Stanley C, Creighton R, Gross M, Garrett W, Yu B. Effects of a Knee Extension Constraint Brace on Lower Extremity Movements after ACL Reconstruction. Clinical Orthopaedics and Related Research. 2011; 469(6):1774-1780.
9. Yu B, Herman D, Preston J, Lu W, Kirkendall DT, Garrett WE. Immediate Effects of a Knee Brace with a Constraint to Knee Extension on Knee Kinematics and Ground Reaction Forces in a Stop-Jump Task. American Journal of Sports Medicine. 2004;32:1136-1143. Nunley et al. 2003
10. Nunley RM, Wright DW, Renner JB, Yu B, Garrett WE. Gender Comparison of Patella-Tendon Tibial Shift Angle with Weight-Bearing. Res Sports Med. 2003; 11:173-185.

# Customize your brace more with accessories and team colors



**NEW SILICONE CONDYLE PAD**



**MEMORY FOAM CONDYLE PAD**



**AIR CONDYLE PAD**



**COMPRESSION KNIT UNDERSLEEVE**



**LYCRA® UNDERSLEEVE**



**TRU-PULL ATTACHMENT**



**CALF PINCH GUARD**



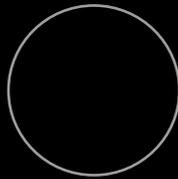
**IMPACT GUARD**



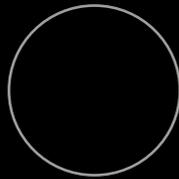
**SPORTS COVER**



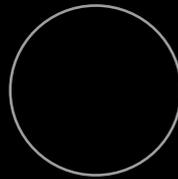
Defiance® Pro  
(shown in Seafoam)



Black  
Gloss



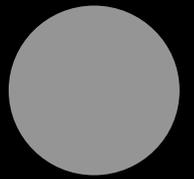
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Matte



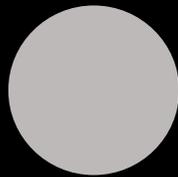
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Gloss



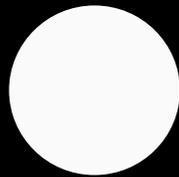
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Gloss



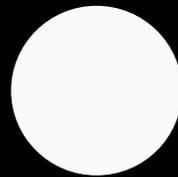
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Gloss



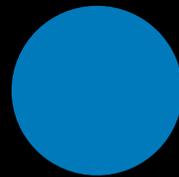
Smoke  
Matte



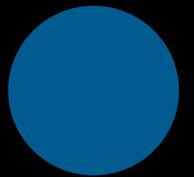
White  
Gloss



Metallic White  
Gloss



Bright Blue  
Gloss



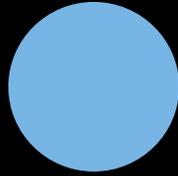
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Gloss



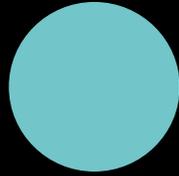
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Gloss



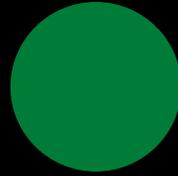
Metallic Navy  
Gloss



Powder  
Gloss



Seafoam  
Gloss



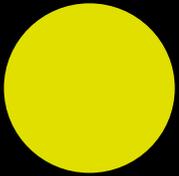
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Gloss



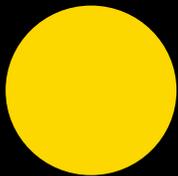
Metallic Forest  
Gloss



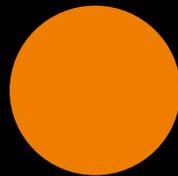
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Gloss



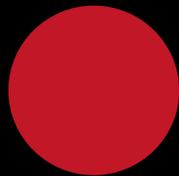
Volt  
Gloss



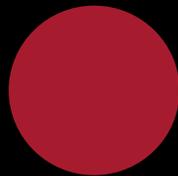
Bumble  
Gloss



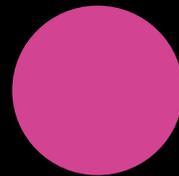
Safety  
Gloss



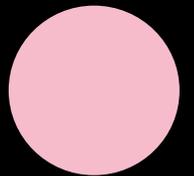
True Red  
Gloss



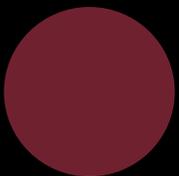
Metallic True Red  
Gloss



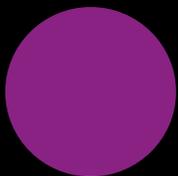
Fuchsia  
Gloss



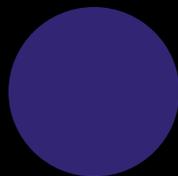
Cotton Candy  
Gloss



Crimson  
Gloss



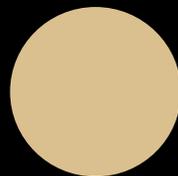
Grape  
Gloss



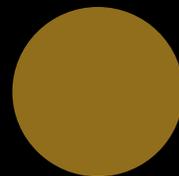
Velvet  
Gloss



Olive Drab Green  
Matte



Desert Tan  
Matte



Flat Dark Earth  
Matte

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