

# DONJOY<sup>®</sup>

## MOTORSPORT



Albin Elowson  
Sweden - Enduro

**ELOWSON**  
ENDURO

# #TRUST DONJOY

## A PRODUCT FOR EVERY JOINT AND INJURY

Extreme sports. Water sports. Contact and non-contact sports DonJoy custom knee ligament braces, offers a perfect, custom-made fit for every athlete. For weekend warriors to elite athletes DonJoy is the strongest choice of functional knee braces. The custom carbon fiber composite is lightweight; the low-profile design fits comfortably under clothing and sports uniforms and is available in more than 30 frame colors and graphics. With a medial swooping thigh; a diagonal bend on the inside of the thigh section provides clearance for the other leg or for an object such as a gas tank, horse or another brace. Technology is on the track, on the court, on the slopes and in the water protecting knees and providing confidence to those who wear it. First introduced in 1992, DonJoy has produced more than two million Defiance braces all over the world.

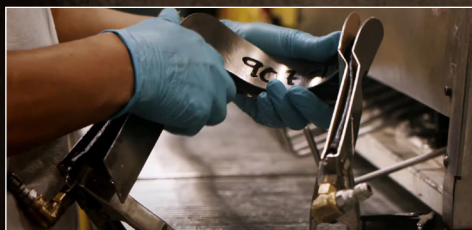
Statistics on Motocross injuries show that not only the knee, but also the shoulder, wrist, elbow and ankle joints are frequently injured. There is no need to tell you how quickly a great start to the season can turn into a nightmare in just a few seconds...a bad fall makes the line between success and failure very thin! DonJoy is aware of this and over the years have developed a full range of premium quality products in answer to the high demands of athletes; products that help you reach your goals. This motorsport catalogue features DonJoy Defiance and DoJoy Armor, these products have been tried and tested by athletes and their medical professionals and are designed to help prevent injury. Your safety and health is our concern! We want you to trust your body, trust your instinct and trust our gear... so go for the protection DonJoy is offering you!

*Indications: Hyperextension; Moderate to severe ACL or PCL instabilities; ACL/PCL instabilities combined (CI); MCL/LCL instabilities; ACL or PCL reconstruction; Prophylactic use*

# #TRUST DONJOY

## A CARBON FIBER FRAME

Unbelievably strong and lightweight. Get the protection you need without feeling like you're being weighed down by your brace. The Brace is constructed at our factory in Vista, California, US – and is individually made and painted based on your measurements and wishes.





**4** POINTS OF LEVERAGE™

## 4-POINTS-OF-LEVERAGE™

Since 1984, DonJoy's goal has been to revolutionise orthopaedic bracing. Through the 4-Points-of-Leverage™ rigid cuff and strap configuration, a posterior force is applied to the tibia preventing anterior movement.

The 4-Points-of-Leverage™ design is used on the Defiance PRO®, Armor, 4Titude®, FullForce™ and Legend™ braces.

## UNIQUE INTEGRATION SYSTEM

The centre of the hinge is just posterior to the midline and just superior to the joint line. This allows points 1 and 3 to compress soft tissue, isolating the femur and bringing it forward. Points 2 and 4 draw the tibia posterior, generating a net differential force, or constant load, directly over the tibia, preventing it from moving forward.



### POINT 1

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

### POINT 3

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

### POINT 2

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

### POINT 4

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

## What is an ACL injury to the knee?

The anterior cruciate ligament (ACL) is the most commonly injured knee ligament. The ACL controls how far forward the shinbone moves in relation to the thighbone and if the shinbone moves too far, the ACL can tear. The ACL is also the first ligament that becomes tight when the knee is straight so if the knee is forced past this point, or hyperextended, the ACL can also be torn.

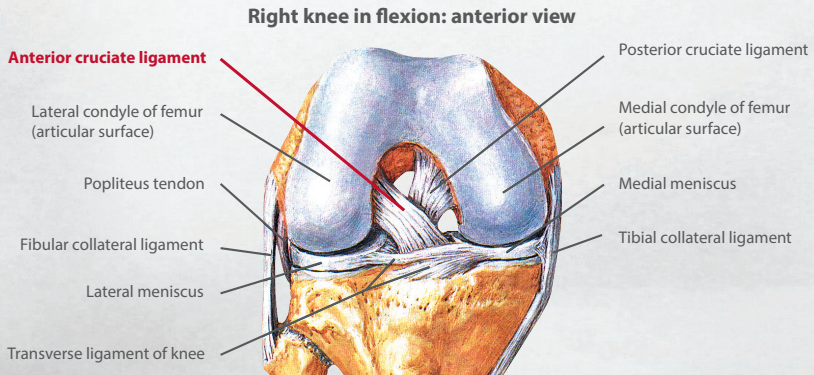
The ACL is often injured during high action sports activities when the athlete suffers a direct blow, a twisting motion or hyperextension. For example, the hyperextension and twisting mechanisms can occur when a motocross rider catches their foot in a corner. The tearing of the ligament results in a loud popping sound and the feeling of instability in the knee. Often the medial collateral ligament (MCL) and the ACL are injured at the same time. The MCL is a wide, thick band of tissue that runs down the inner part of the knee from the thighbone to a point on the shinbone about 4 to 6 inches from the knee.



## Why do I need my ACL?

The ACL stabilises the knee and the instability caused by the torn ligament leads to a feeling of insecurity or "giving way" of your knee, especially when trying to change direction. People with a torn ACL will feel instability when walking down hills or stairs, cutting/pivoting, starting and stopping quickly and when their knee is in full extension. The knee may also feel like it can bend too far backwards.

The symptoms following a tear of the ACL are not always exactly the same in severity for all people. Typically, you will experience swelling of the knee within a short time following the injury. This swelling is due to bleeding into the knee joint from torn blood vessels in the damaged ligament. The pain and swelling from the initial injury will usually go away after a few weeks, but the instability remains. This physical instability and the inability of the patient to control the knee require treatment. Many people have the instability treated by orthopaedic surgery to reconstruct the ligament to increase the stability of the knee and prevent damage to the joint.





# DONJOY® DEFIANCE PRO

Custom made

The custom-made knee brace DonJoy Defiance has been a world leader for over 20 years. To date, over 2 million Defiance knee braces have been sold worldwide to athletes and active individuals of all ages, shapes, sizes, and genders. With Defiance PRO, we further strengthen our leading position. We are proud to have the most powerful knee brace on the market based on the strength-to-weight ratio. Defiance PRO gives you the utmost confidence and freedom to move as you wish. The Defiance PRO knee brace is designed to provide support for the knee in the following indications: patients with ligament injuries (ACL, PCL, MCL, LCL), meniscus and/or cartilage injuries, post-surgery, and in cases of osteoarthritis.

NEW

## FEATURES AND BENEFITS

- Clinically proven FourcePoint™ hinge that helps reduce the load on the ACL by at least 50%
- Clinically proven FourcePoint™ hinge that decreases the load on the ACL and reduces the risk of injuries
- Custom-made according your measurements. Choose from over 30 colors
- The reliable and efficient carbon fiber frame weighs less than 600 g and has a 5 mm lower profile than Defiance® Classic
- Internally mounted straps provide the brace with a completely smooth surface, making it feel light and comfortable
- New, soft padding (C6) in moisture-wicking and antibacterial material
- New, soft strap ends that securely hold the straps in place
- Choose from several comfortable knee pads, such as silicone, memory foam, or air-filled cushions

## INDICATION

- Ligament injuries (ACL, PCL, MCL, LCL)
- Meniscus and/or cartilage injuries
- Post-surgery and in case of osteoarthritis

*FourcePoint™ hinge incorporates a spring leaf dampening mechanism that reduces extension shock*





Josep García  
Spain - Enduro



# DONJOY® ARMOR

The DonJoy Armor knee brace is our strongest off-the-shelf brace. Lightweight and low profile, we took the best features from our existing line of braces to create a brace that is perfect for motorcycle sports. It has a swooping frame design, which means there is no interference with the motorcycle frame or fuel tank. The Armor knee brace has just the right calf cuff length to ensure maximum leverage and boot fit.

## FEATURES AND BENEFITS

- Optional FourcePoint™ hinge
- Medial swooping frame
- Anti-migration Supra Condyle Pad
- Short calf for boot clearance
- Patented 4-point dynamic leverage system
- Stronger 6061 T6 aircraft aluminium frame
- ACL, PCL and CI version
- Moldable frame for custom fit
- Flexion-extension control
- Swiveling strap tabs
- 1-year warranty on frame and hinge

## INDICATION

Mild to severe ACL and/or PCL, MCL, LCL instabilities for active patients participating in extreme sports



FourcePoint™ hinge incorporates a spring leaf dampening mechanism that reduces extension shock



## ACCESSORIES

Impact Guard Special with Extended thigh piece



Calf Pinch Guard



Sports Cover (Standard & short)



Tru-Pull® Attachment



Svart undergarment i Lycra®



Black neopreen undergarment



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### DonJoy Defiance with Impact Guard

Extended  
thigh piece.



You  
Tube

DONJOY®

Fitting Video  
Accessories for  
Rigid Braces



FITTING INSTRUCTION  
IMPACT GUARD



Both impact guards can be ordered in both "pull on" model and "screw on" model. The pull on model is rarely used but is a solution when there is not sufficient space for the knee with the "screw on" model.

#### Pull On

(Contact Customer  
Services to order)

#### Screw On

(standard)





## DONJOY 4-POINT BRACE FITTING INSTRUCTIONS



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