

The New Reaction Knee Brace is an active, responsive, webbed approach to general anterior knee pain, and a distinct alternative to basic knee sleeves.

Patient Profile

All patient types from low to high activity levels

Indications

General anterior knee pain related to:

- Chondromalacia Patella
- Osgood-Schlatter Disease
- Patella OA, Mild bicompartmental OA
- Quadriceps and Patella Tendonitis/Tendinosis

Design Rationale

- The elastomeric membranes act as an elastic exoskeleton to dampen impact forces through elongation of the extensile components
- They provide proprioceptive contact throughout ROM, and upon returning to their original length, stored kinetic energy is returned to the knee in a "quads assist" fashion

Extensile Membranes - Role and Function



The vertical membranes

provide most of the kinetic return

The diagonal membranes mimic the lines of force of the quads

The horizontal membranes cross the patella and quads tendons

The medial and lateral para-patella membranes control patella tracking

Fig 1 - Each set of elastomeric membranes has specific functions and independent actions



Fig 2 - The flexible membranes elongate and recede with joint motion





"Web" Design provides Energy Dispersion & Shock Absorption for Progressive Pain Relief

- The elastomeric web design helps reduce pain by dispersing energy across the knee
- The flexible membranes elongate with joint motion and return to their original dimensions, absorbing shock and shifting peak loads away from the painful area (See "Design Rationale" Fig. 1)
- The contoured fit, compression and stretch ability of the membranes also provide increased proprioception (neuro muscular control) in flexion and extension

Open Framework for Sustained Comfort

- Provides intimate fit around the patella and captures the anatomic features of the knee
- With the mesh backing, it creates a comfortable fit and a breathable solution
- The overall feeling is much less restrictive than a knee sleeve

Extensile Membranes for Patella Stabilisation

• The web design dynamically stabilizes the patella on all sides, it also creates tension over the quad and patella tendons to help relieve pain

Dual Axis Hinges for Additional Support

• Being flexible, the hinges also bias the knee in neutral position

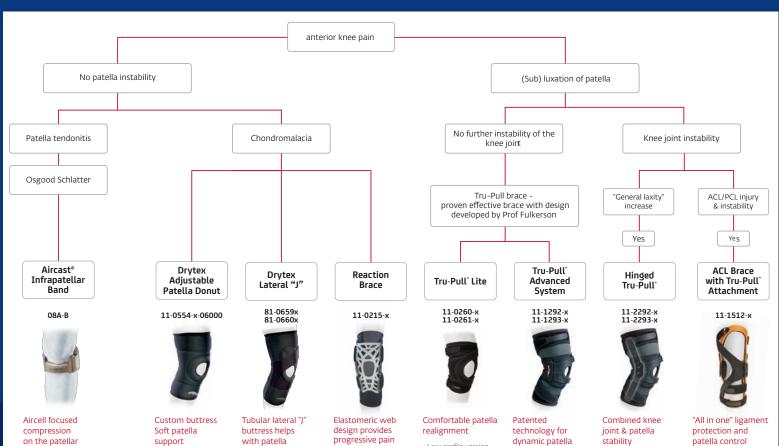


Adaptable Tension for Brace Stability

- The adjustable straps help the brace remain in place during daily or sports activities
- The straps can be customized for comfort and desired degree of elastic return

Fitted Under-sleeve for Comfort

 Helps prevent skin irritation, provides compression and tissue containment



on the patellar tendon

- Helps to decrease stress at the tibial tubercle.
- Available in beige and black. Universal fit.
- Trimmable full-circumference donut for adjustable patella control
- Popliteal cut-out for additional comfort
- · Drytex material for patients with neoprene allergy

with patella stabilization

- Lateral to medial strapping provides additional patella stabilization
- Breathable, compressive Drytex material for maximum patient comfort

progressive pain

- · Elastomeric web design creates energy dispersion across the knee for shock absorption
- Adjustable strapping at top and bottom keeps brace in place
- · Breathable solution for all day usage
- Low profile version Lightweight, ideal for
- females · Silicone buttress for optimal positioning

dynamic patella control

- Adjustable buttress and strap system to avoid brace rotation
- Intergrated in a brace for ease of use
- Dynamic pull on patella during knee extension

stability

- Aluminium polycentric hinge Additional
- medial/lateral support and hyperextension control
- Elastomeric pull device provides a strong dynamic pull on the patella as the knee moves into
- extension Trimmable buttress for versatility and comfort
- Ease of application for patient compliance



Reaction™ Knee Brace

ORDERING INFORMATION				
PART NUMBER	DESCRIPTION	SIZE	MEASUREMENTS TAKEN 15 CM (6 ") ABOVE MID-PATELLA	
11-0215-2	Reaction Brace	XS/S	33 cm - 46 cm	13 - 18½ "
11-0215-3	Reaction Brace	M/L	47 cm - 59 cm	18½ - 23½ "
11-0215-4	Reaction Brace	XL/XXL	60 cm - 75 cm	23½ - 29½ "
11-0215-5	Reaction Brace	XXXL	> 75 cm	> 29½ "
ACCESSORIES				

XS to XXXL

DJO Asia Pacific | Unit 1905, 19/F, Tower II | Grand Central Plaza | 138 Shatin Rural Committee Road | Shatin | Hong Kong www.DJOglobal.eu



11-0541-x

Undersleeve

Together in Motion.