



THE PENTAGON™ FIVE FUNCTION KNEE ORTHOSIS

The Pentagon™ is a posterior fitting, single upright knee orthoses that provides the orthopedic/rehabilitation team with a patient-friendly alternative to the traditional bulky double upright hinged knee configuration.

The double hinge orthoses are more difficult to utilize due to the sheer nature of the proper fitting standards. They are more time consuming to employ and more prone to cause additional follow up visits to address functional and comfort complications.

Knee immobilizers are simple to use, but lack the joint control that is so often desired in the rehabilitation process. Other methods that utilize static attachment of the thigh and calf cuff to a posterior knee joint essentially cause the knee joint to misalign due to a friction moment.

The Pentagon™ orthoses is the only system that allows the calf and thigh segments to dynamically shorten and lengthen with the patient's extremity during flexion and extension of the knee. Compensation for this shortening and lengthening is through the use of a free motion cam that is incorporated into the thigh and calf cuffs. With this unique feature comfort and function is achieved through out the full ROM of the knee orthosis. This design utilizes accurate alignment of the mechanical knee joint to that of the anatomical knee joint aiding in positive outcomes.



Shown with 4 Pull Knee Cap

1150 – Adult, 1050 – Pediatric

1. **Drop Lock** – in full extension
2. **Ratchet Lock** – single release lever 15° increments
3. **Range of Motion** – infinite ROM adjustment in flexion and/or extension from 0° to 110°
4. **Total Motion Lock** – lock out in any position
5. **Free Motion** – 0° to 110°

★ **Free Motion Cam Assembly**

Also available in ROM-only version

1150-ROM – Adult
1050-ROM – Pediatric

This system design also allows for a simplified fitting of the knee orthoses. The unique Pentagon™ design can address up to five different knee orthoses functions:

- Drop Lock Knee Joint
- Ratchet Locking Knee Joint
- Range of Motion Knee Joint
- Total Motion Lock
- Free Motion Knee Joint

The Pentagon™ Knee Orthoses is delivered ready to fit, with durable and highly adaptable soft goods to assure a simplified fitting experience. Each orthoses is provided with both a 4 pull knee cap (the recommended application) and pre-patella straps and pads.

Two Sizes Available – Adult and Pediatric

Patents
5,088,479 5,908,398 6,377,178 7,122,016
5,486,157 5,944,679 6,464,659 7,662,119
5,593,383 6,302,858 6,793,638 Patent Pending
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