



A NEW STANDARD IN ENDOSKELETAL
COMPONENT TECHNOLOGY



embedded
precision

Enables Practitioners to See what Patients are Feeling .

The patent pending Smart Pyramid™ builds on Orthocare's Compass™ technology platform to assist providers in achieving optimal, measurable patient outcomes. Smart Pyramid™ incorporates on-board logic into the endosteal structure to offer practitioners an easy, understandable way to assess prosthesis function and minimize the effects of suboptimal alignment.





A New Standard in Endoskeletal Component Technology

For over 30 years, modular endoskeletal components have served as the foundation for prosthesis stability and structural integrity. Smart Pyramid™ builds on this history by establishing a new standard in endoskeletal componentry - Embedded Precision™.

**Exoskeletal
Prosthesis**



**Endoskeletal
Components**



**embedded
precision™**

Smart Pyramid™ Achieves Optimal Prosthesis Alignment

Optimal alignment is about how a prosthesis feels. Smart Pyramid™ helps practitioners assess what the patient is feeling: is the device pulling in one way or another? Is the patient in balance with his or her prosthesis?

Smart Pyramid™ enables practitioners to dynamically tune and optimize prosthesis function. If alignment is not optimized, forces on a patient's residual limb will eventually create discomfort, bruising and skin breakdowns, resulting in pain, possible infection and reduced levels of activity.

Advanced Technology: Easily Incorporated Component

The instrument-grade Smart Pyramid™ replicates the industry-standard inverted pyramid design in the familiar European four-hole attachment configuration. It is easily integrated into any new or existing endoskeletal lower limb prosthesis, requires no batteries or servicing, and is sealed against moisture penetration.

The Smart Pyramid™ is mounted just distal to the socket, with the notch in the four-hole connection plate facing forward, indicating the line of progression. Smart

Pyramid™ overcomes difficulty in comparing performance of prosthesis over time since reference points do not change, ensuring that every measurement is comparable to the previous measurement.

Bringing Standardization and Optimization to Alignment

Smart Pyramid™ allows real-time measurements of the Socket Reaction Forces, or torques, that are being applied to the residual limb during ambulation. When used in conjunction with the Compas™ System, the integrated microprocessor automatically provides the following key indicators:

*Body Weight
Vertical Weight Bearing Through Prosthesis
Sagittal and Coronal Plane Torques
Stance Time
Swing Time
Cadence
Center of Pressure Progression*

With the Smart Pyramid™ incorporated into the prosthesis, the prosthetist can objectively verify and document when the artificial limb is well aligned, increasing the confidence of the client, prescriber, and payer that the best possible clinical outcome has been achieved.



Smart Pyramid™ Benefits

- Dynamic Alignment Technology and Feedback
- Patient Engagement Via Biofeedback
- Improved Balance and Safety
- Decreased Socket/Interface Stress
- Reimbursable Event for Providers
- Prosthetic Technology Utilization Data
- Real-Time Device Monitoring
- Integrated Monitoring and Evaluation Software
- Demonstrate Effect of Small Misalignments

It's so smart, it's simple to use!

Despite its sophisticated design, scientific accuracy, and versatile capabilities, installing the Smart Pyramid™ requires no new skills or specialized skills.