



Optimal Socket Forces and Limb Health

Walking in the real world creates dynamic socket-reaction forces against the residual limb—forces that are very difficult to see or describe but have a major impact on a patient’s risk of health problems. Sub-optimal socket forces increase the risk of skin and joint traumas, irregular gait, and the long-term problems that follow reduced activity. When used in conjunction with the Compas™ System, Smart Pyramid™ both detects and analyzes those forces scientifically, using sensor-based, quantified data.

The information Smart Pyramid™ provides can help reduce potentially dangerous pressures on the residual limb, keeping amputees healthier. With the Smart Pyramid™, you can objectively verify and document when the artificial limb has optimum force distribution, increasing the confidence of patient, prescriber, and payer.

Transforming the Fitting Process

Smart Pyramid™ works with the Compas™ hardware and software automatically to extract and interpret socket-force data, instantly providing objective kinetic measurements of the forces the socket is applying to the amputee’s residual limb. It also provides direct advice for adjusting componentry to obtain optimum fit. This advice builds on a database of thousands of amputee patient records and decades of expert patient care experience.

**Advanced technology.
Remarkably easy to use.**

Ease of Use

To enable gait analysis, the Compas™ Master unit clicks onto the Smart Pyramid™ to provide power, communication to your computer, microprocessor control, motion sensing, and a laser guide. The system continuously measures dynamic forces and balance while the patient is standing or walking, indoors or outside, on any terrain.

Easily Incorporated Component

The Smart Pyramid™ looks like an industry standard prosthetic pyramid, with the familiar European four-hole attachment configuration. Mounted just distal to the socket, it is easy to integrate into any endoskeletal lower-limb prosthesis and remains for the life of the limb. It requires no batteries or servicing, and is sealed against moisture penetration.

Time-Saving Simplicity

Smart Pyramid™ eliminates the need for

time-consuming, repetitive adjustments to prosthesis components. Amputees feel the results throughout the fitting process and gain confidence from seeing objective information about what they feel. Incorporating the Smart Pyramid™ into the prosthesis saves time during the initial fitting and means fewer visits for adjustment.

Better Patient Communication

Clinicians can use Compas™ graphs to help their patients better understand the forces they feel. The graphs serve as a shared language for clinicians and patients and allow patients to give more detailed feedback during the fitting process.

Data Storage

Smart Pyramid™ stores multiple data sets, allowing for comparisons over time and providing a longitudinal record of treatment outcomes. Its data is easy to share with payers and referral sources.



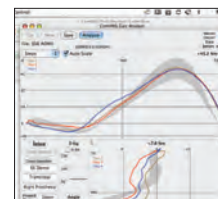
STEP ONE

Build Smart Pyramid™ into the patient’s prosthesis



STEP TWO

Click Master Unit onto Smart Pyramid™; connect to computer via Bluetooth



STEP THREE

Capture gait data during walking with prosthesis



STEP FOUR

Optimize socket-reaction forces based on biomechanical analysis



“With the Smart Pyramid™ we can ensure that our patients are being fit and aligned to the best of our ability.”

*Kurt Schlau, CP
Director of Prosthetics
Wright & Fillipis*

Payer Approval for Smart Pyramid™

Medicare Regions A and B | Carefirst Blue Cross Blue Shield

Blue Cross Blue Shield of Nebraska | Highmark Blue Cross Blue Shield | United Healthcare

Awards and Recognition

The New York Times



Clinical Practices using Smart Pyramid™

