

ALIGNMENT

AKA™ BEATS TKA

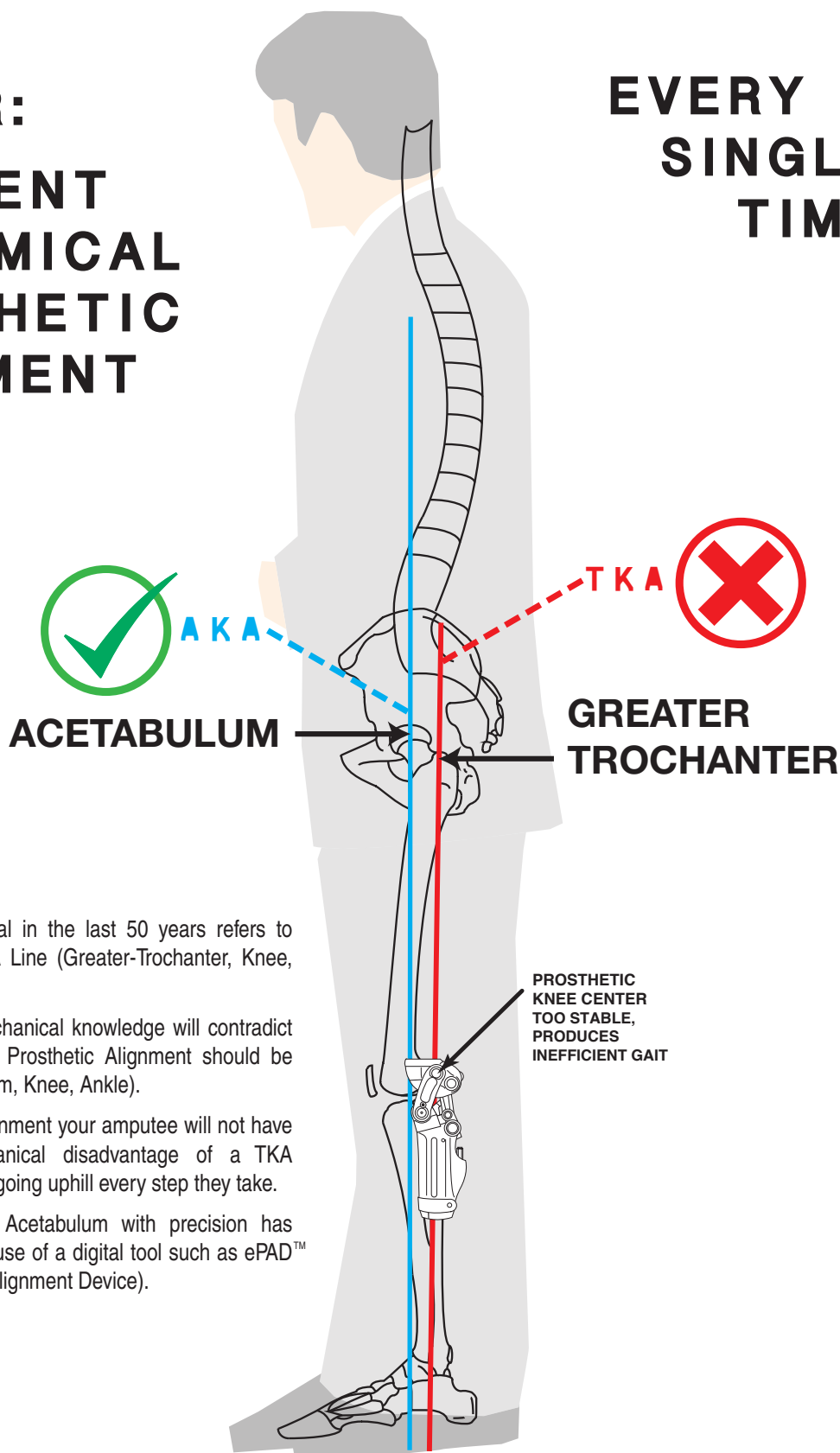
Acetabulum

vs

Trochanter

**FOR:
EFFICIENT
ANATOMICAL
PROSTHETIC
ALIGNMENT**

**EVERY
SINGLE
TIME!**



Most every Prosthetic Manual in the last 50 years refers to alignment based on the TKA Line (Greater-Trochanter, Knee, Ankle).

No one with a strong Biomechanical knowledge will contradict that the efficient Anatomical Prosthetic Alignment should be based on the AKA (Acetabulum, Knee, Ankle).

By converting to the AKA alignment your amputee will not have to overcome the biomechanical disadvantage of a TKA alignment, which is similar to going uphill every step they take.

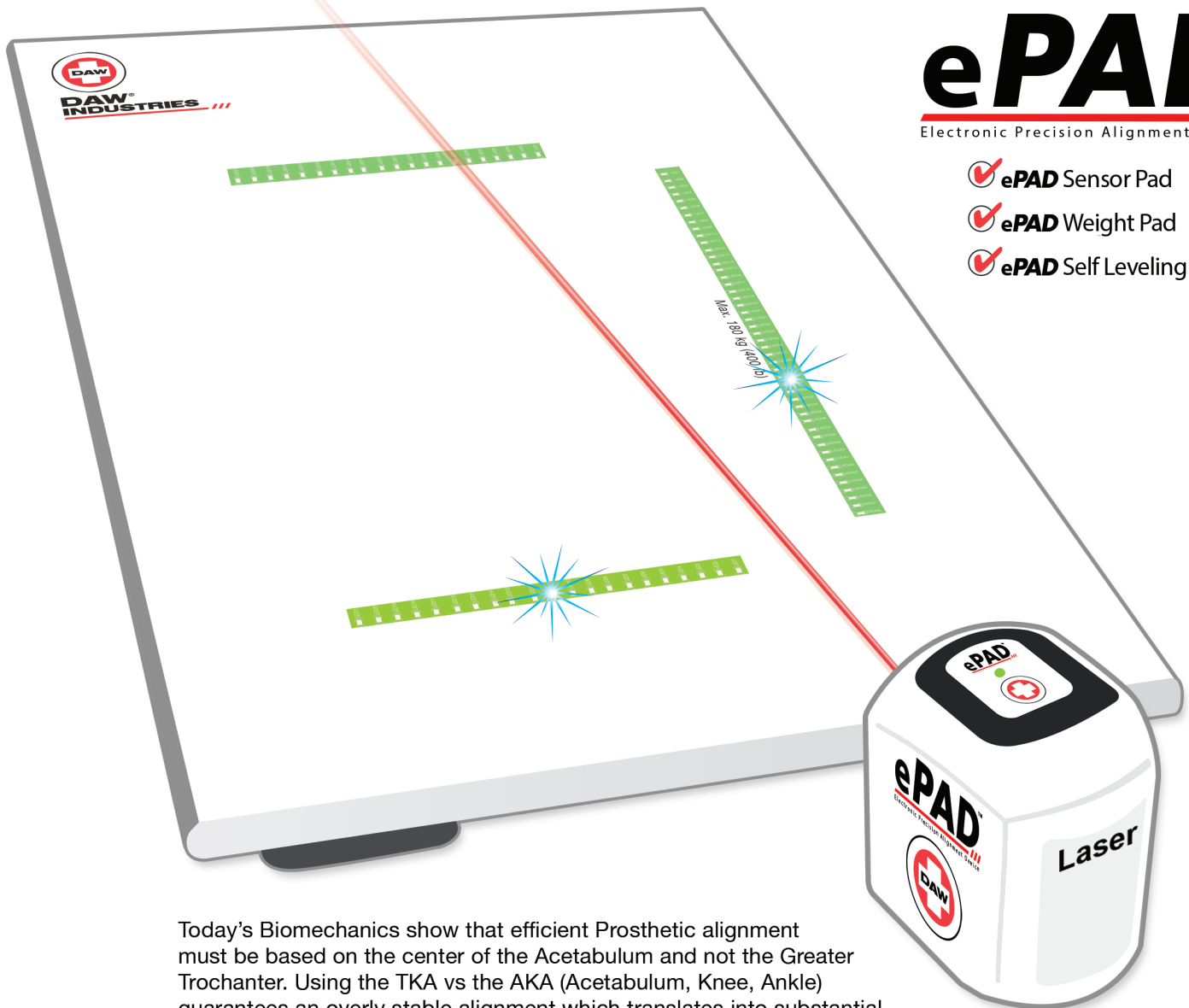
Locating the center of the Acetabulum with precision has become child's play with the use of a digital tool such as ePAD™ (DAW's Electronic Precision Alignment Device).



**DAW
INDUSTRIES**

ALIGNMENT

THE SCIENCE



ePAD™
Electronic Precision Alignment Device

- ✓ ePAD Sensor Pad
- ✓ ePAD Weight Pad
- ✓ ePAD Self Leveling Laser

Today's Biomechanics show that efficient Prosthetic alignment must be based on the center of the Acetabulum and not the Greater Trochanter. Using the TKA vs the AKA (Acetabulum, Knee, Ankle) guarantees an overly stable alignment which translates into substantial variations in Gait Pattern and Energy Consumption.

The ePAD allows cost effective precise location of the Center of the Acetabulum in both Sagittal and Coronal Planes. By precisely locating the true point of origin of the Ground Reaction Force (GRF) while ensuring equal weight bearing the ePAD points out the true location of the Acetabulum.

Applying this knowledge together with advanced polycentric technology will provide Amputees with an efficient and secure anatomical gait.



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ePAD: The Electronic Precision Alignment Device

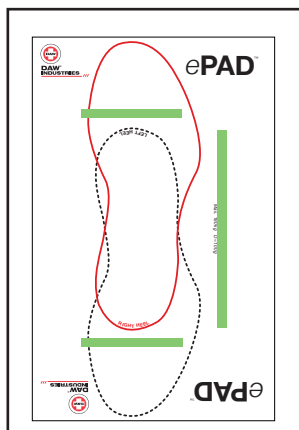
What does it do?

For any force applied to the ground there is an equal and opposite force. This force is termed the Ground Reaction Force (GRF). In the case of the foot on the ground, it is the summation of all the forces applied by the foot to the ground. The GRF is a vector, it has a point of origin and a direction.

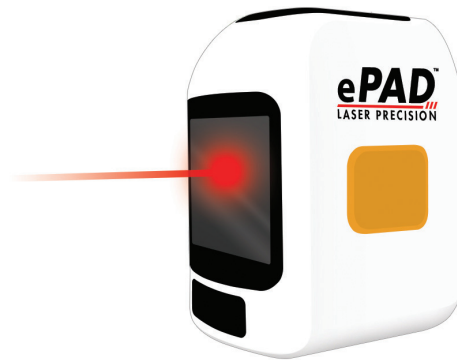
The ePAD Sensor Pad shows precisely where the “point of origin” of the GRF vector is located in Sagittal and Coronal Planes. In neutral Stance, when placed at the “point of origin” the vertical line produced by the self leveling laser goes through the exact location of the center of the acetabulum. It would be impossible to locate with precision without the ePAD. Efficient prosthetic alignment requires the proper positioning of the knee and ankle in relation to the center of the acetabulum.

The Weight Pad ensures even weight bearing on both legs, which is essential for an accurate assesment of the GRF Vector.

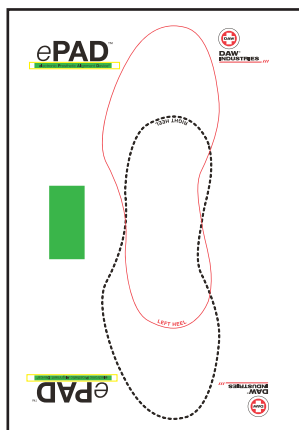
Box Contents:



ePAD Sensor Pad



ePAD Laser



ePAD Weight Pad



Charging Converter with Micro USB

