



ZENCRANKS is a Power Acceleration [crank] System that increases acceleration and overall speed in the seated position. This enables one to outdistance opponents and stay with groups of faster cyclists both in the plains and uphill (read [testimonials](#) for detailed reports).

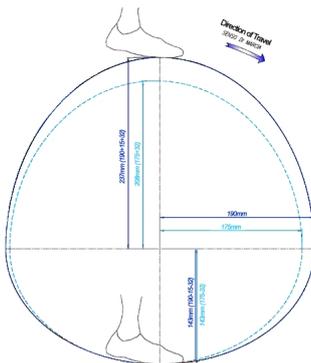
ZENCRANKS PAS include small interchangeable arms in different sizes to match any length of crank and special pedals Look Keo compatible (currently the only pedals that can be used for their dimensional characteristics). Depending on the specialty and type of riding (chrono, granfondo and track), small arms of different lengths are combined with the cranks and guarantee the best performance.

For the first time cycling components involved in the pedaling motion are sized in relation to the masses and the lengths of the lower limbs to increase output torque and acceleration especially on climbs.

In spite of the exceptional length of ZENCRANKS PAS arms (for example 190 mm), the same can be mounted on standard geometry frames since the ground clearance of the pedal (when leaning in turns) is the same as that of the classic lengths (for example 175 mm). It is recommendable to make frames with 1° steeper seat tube specific geometry to avoid toe overlapping the front wheel in case of tight turning/maneuvering.

The introduction of the ZENCRANKS into racing will change individual and group tactics and bring different training techniques.

Users will pedal with greater performance and less fatigue. As a result a greater number of fans will be attracted to road cycling.



Foot trajectory (at metatarsus level) while pedaling:

175mm traditional crank arms with Keo pedals (blue)

190mm Zencranks PAS (Power Augmentation System) with Keo pedals

Thickness including pedal axel (above its own center), pedal, cleat and sole for a total of 320mm

circumference length with 175mm traditional crank arms with Keo pedals = 1028mm

circumference length with 190mm Zencranks PAS with Keo pedals = 1,154mm

Note: The trajectory of the pedal on the way up when using Zencranks is closer to the vertical axel and the trajectory of the 175mm standard cranks because the foot in such area is tilted approximately 45° forward.

Comparison between traditional crank arm and Zencranks

