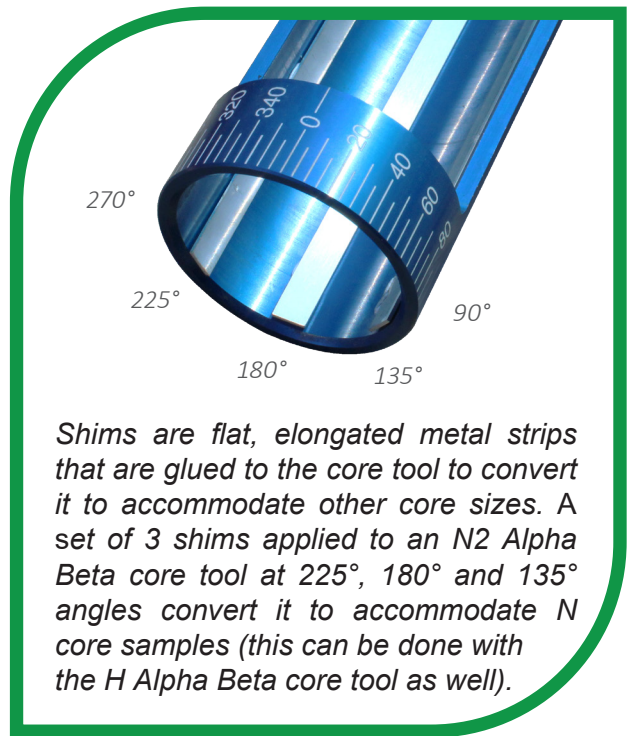
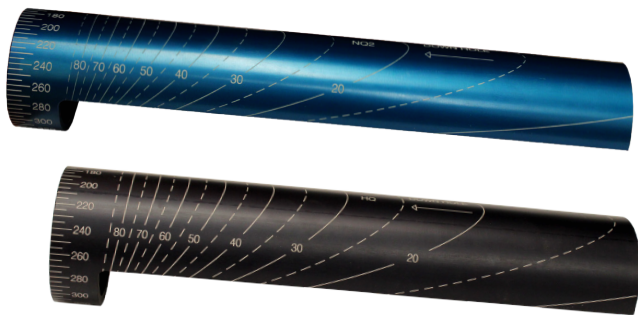


# Alpha Beta Core Tool

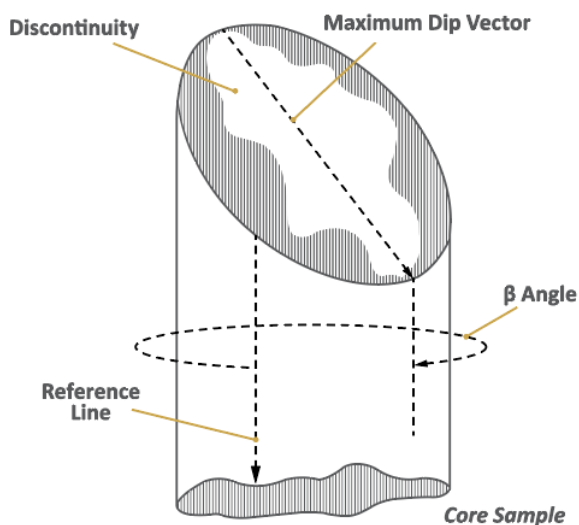
Measuring  $\alpha$  &  $\beta$  angles using the Alpha Beta core tool (also known as a Kenometer) is a simple task. The design and concept of this core orientating device helps ensure geotechnicians and the like can collect data in an accurate, efficient and easily attainable way.

- $\alpha$ : angle of planar feature relative to core axis that is measured along the longest axis of the ellipse.
- $\beta$ : angle of the circumference between the orientation reference line and the long axis of the ellipse.

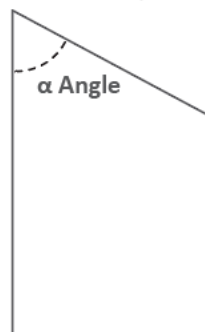


## Features & Benefits

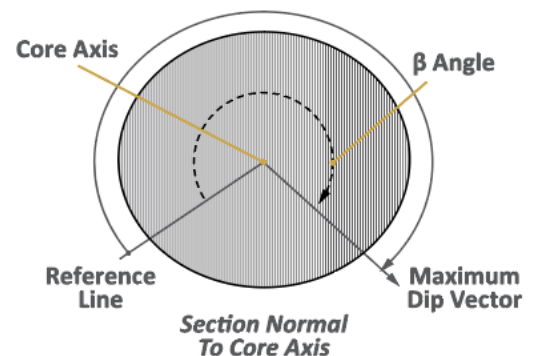
- Measure core's  $\alpha$  &  $\beta$  angles quickly & accurately.
- Easy-to-use (no need for tapes & protractors).
- Suitable to use with whole & broken core samples.
- Made from lightweight anodised aluminium - strong & durable. Perfect for field use.
- Laser-etched permanent markings help ensure precision.



Core Dip Angle,  $\alpha$   
(measured relative to core axis)



Section Parallel To Maximum Dip Vector



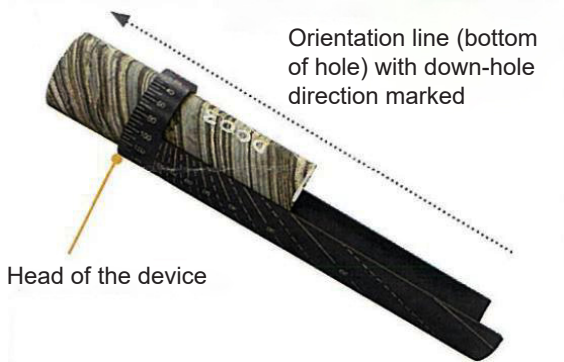
Section Normal To Core Axis



# How to use the Alpha Beta Core Tool

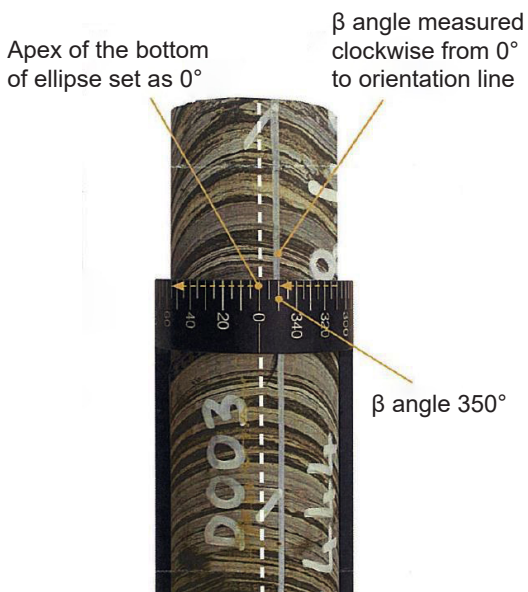
## Step 1

Slide core into the barrel with the down-hole direction and the apex of the planes facing towards the head of the device. You can trace the outline of the ellipse you are measuring as a guide (this is optional).



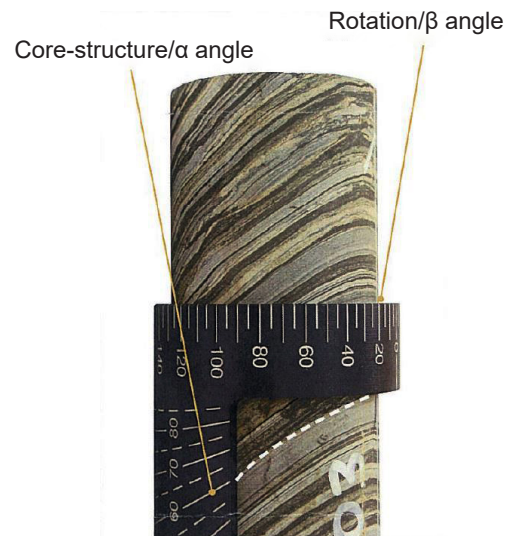
## Step 2

To get the  $\beta$  angle, align the apex or the bottom of the ellipse (down-hole end) formed by the planar feature that is to be measured with the zero ( $0^\circ$ ) graduation on the tool - read this in a clockwise direction from the banding apex to the orientation line.



## Step 3

In order to measure the maximum dip/ $\alpha$ , ensure that the apex/ $\beta$  axis is still aligned to the  $0^\circ$  mark, as per the previous step. Obtain measurement of the curve of the  $\alpha$  angle by reading the measurement on the  $\alpha$  scale.



## Step 4

With this data obtained, use this to calculate orientations using  $\alpha$ - $\beta$ - $\gamma$  values and drillhole survey data. This information is commonly used in geotechnical programs.

