

Foot-dimensions in Lightbeam

The foot is first aligned along the inside of the foot. Here only the part of the foot is considered, which is a maximum of 4cm high (i.e. below the ankle). Around this part of the foot a bounding box is placed – i.e. a box which exactly abuts the foot from all sides.

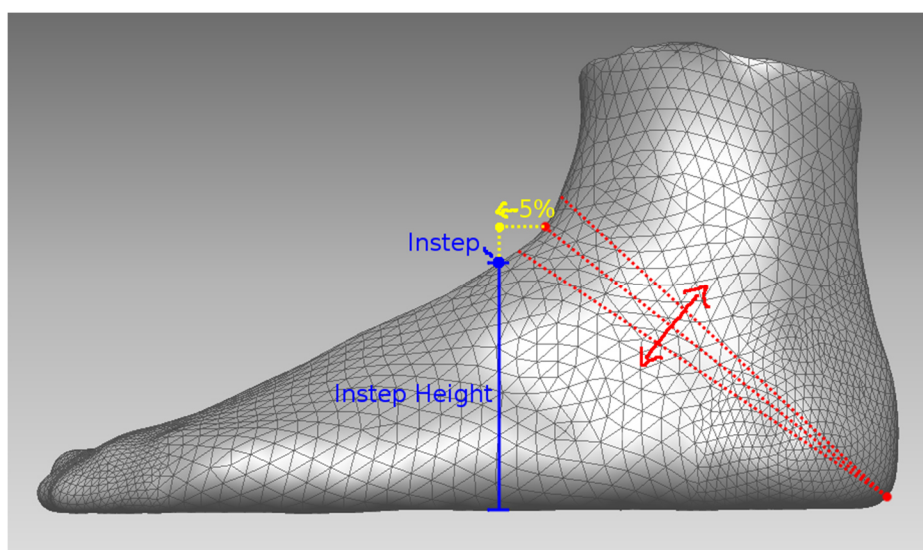
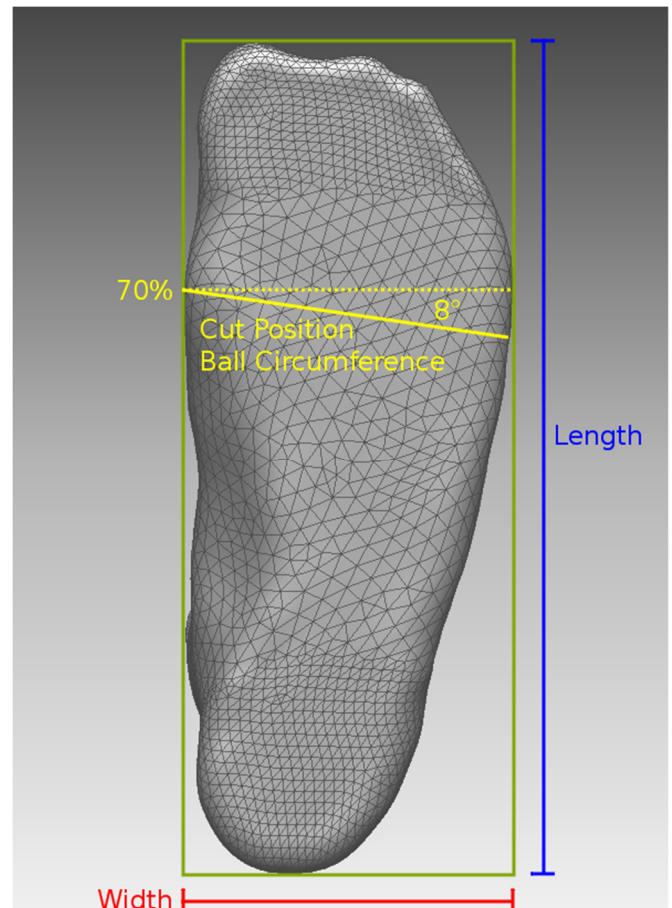
The length of the box corresponds the **foot length**.

The width of the box corresponds the **foot width**.

For the bale circumference at 70% of the length a section plane is applied at the inside of the box.

This section plane is tilted 8° towards the rear to the outside of the foot in order to align the inclination of the bale.

The length of the section polygon, which generates the section plane with the foot model corresponds the circumference of the bunion.



For the Instep height a series of cutting planes from the heel point is laid diagonally through the heel. The cut with the smallest circumference determines the point on the top of the foot, on which the leg transitions into the foot. This point is moved forward by 5% of the foot length and serves as an anchor point for a vertical cut through the foot.

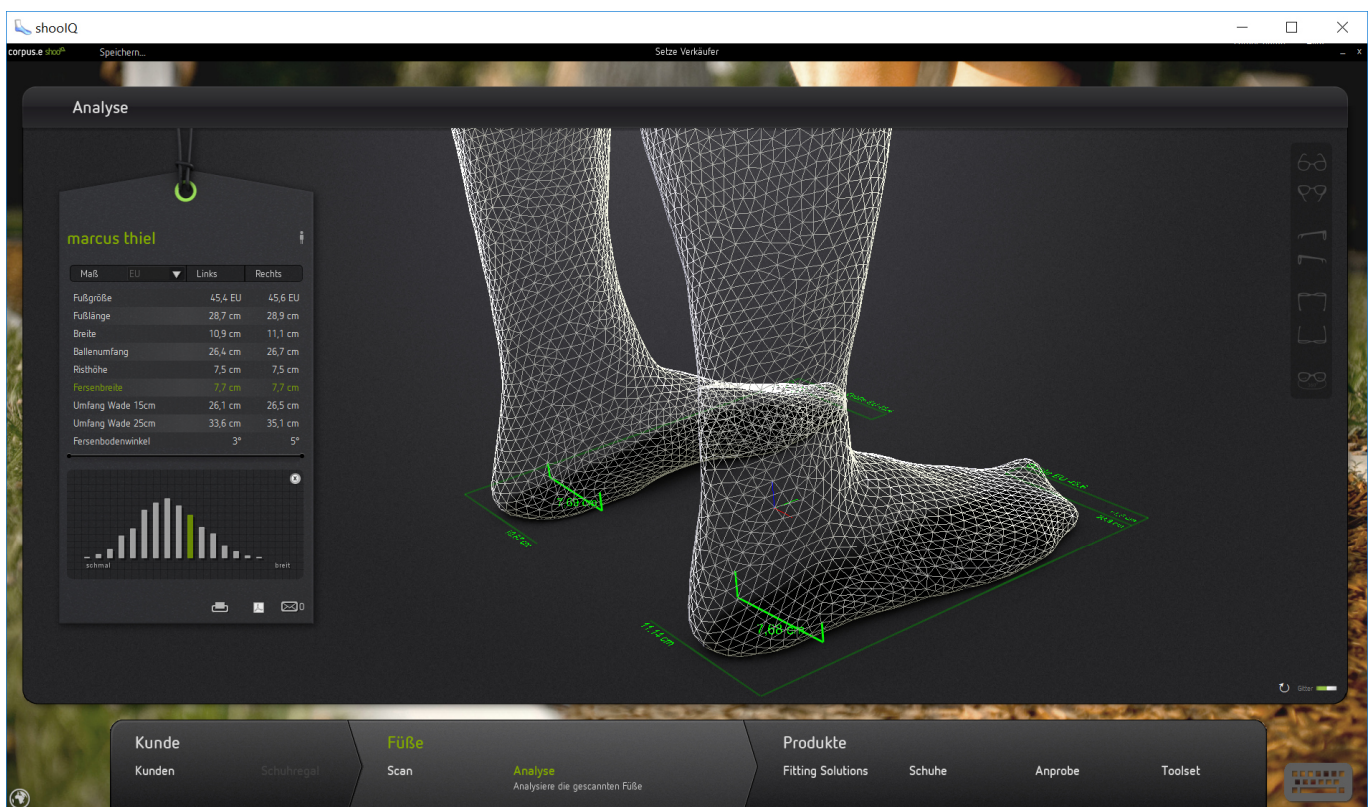
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The highest point of the section polygon is the instep point. The instep height corresponds to the height of this point above the ground level.

Heel width

For the heel width, a plane inclined 45 degrees to the heel is determined at 25% of the foot length and cut with the foot.

The maximum width is then calculated from the resulting intersection polygon.



The screenshot displays the 'shoolQ' software interface. The main window shows a 3D wireframe model of a foot with green measurement lines indicating various dimensions. On the left, a panel titled 'Analyse' displays a table of measurements for 'marcus thiel'.

Maß	EU	Links	Rechts
Fußgröße	45,4 EU	45,6 EU	
Fußlänge	28,7 cm	28,9 cm	
Breite	10,9 cm	11,1 cm	
Ballenumfang	26,4 cm	26,7 cm	
Rosböhe	7,5 cm	7,5 cm	
Fersenbreite	7,7 cm	7,7 cm	
Umfang Wade 15cm	26,1 cm	26,5 cm	
Umfang Wade 25cm	33,6 cm	35,1 cm	
Fersenbodenwinkel	3°	5°	

Below the table is a bar chart showing a distribution of foot widths, with 'schmal' on the left and 'breit' on the right. The bottom navigation bar includes sections for 'Kunde', 'Füße', and 'Produkte'.