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SoleScanner®



The complete system

Certain particularly sensitive feet, such as those of diabetics, require a made-to-measure orthotic that perfectly fits the sole of the foot in order to prevent the concentration of constrictions in the sole area.

The 3D digitiser for orthotics or insoles is a measurement device that uses the principle of structured light projection. This process allows the precise measurement of a foot imprint to within 5/10 of a millimetre.

With this digitiser, the capture or digitisation of a load-bearing foot imprint is carried out instantly (in 1/25 of a second) and without contact.

The SoleScanner® software allows the user to work with a captured footprint image and to reconstruct a precise 3D computer model as a basis for creating a made-to-measure orthotic/insole. SoleScanner® captures up to 50.000 measurement points. The data are extrapolated and interpolated before being transferred, in a simple ASCII file format, to the SoleCad® CAD/CAM software for the conception and manufacturing of the orthotic/insole.

Data collected by the SoleScanner® digitiser can be combined with data obtained by the 2D PodoView® digitiser or by the 2D DigiTab® digitisation tablet.

Furthermore, the data can also be transferred to the 3D FootCad® CAD/CAM software, which allows the user to create and manufacture a last perfectly adapted to the measurements and characteristics of the digitised plantar surface.

The system characteristics

- USB-2 connection to any computer
- 3D scanner for the plantar surface of the foot.
- Instant 3D measurement without contact.
- Load bearing, semi-load bearing or neutral position of the foot.
- User friendly.
- High precision resulting in incomparable comfort.
- Ideal for diabetic feet or sport applications.
- Number of optical heads: 1.
- Maximum error in measurement: <0.3 mm.
- Length of measurement cycle: 1/25 of a second.
- Number of captured points: between 10,000 and 50,000.
- Exterior dimensions (l x w x h): 400 x175 x 600 mm.
- Approximate weight: 10 kg.
- Power supply: 220 V-110 V - 90 W max.