



ECO TECHNOLOGY

CAD/CAM Solutions

For the engineering and the production of custom made and orthopaedic shoes, insoles and plantar orthosis

The four steps to comfort ECOPLAN

The first system that generates the foot plantar surface without plaster impression. Quick and accurate, it has the possibility to modify automatically the orthosis project according to the value of the dynamic pressure test.

EcoPlan System includes a pressure platform for static and dynamic tests, one 3D scanner and the software for the management and design of the EcoPlan orthosis.

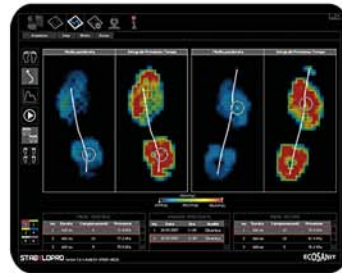
Products:

- Shoemaster^{OS} Ecoplan
- Shoemaster^{OS} Ecowalk
- CNC Shoemaster^{OS} Ecotechnology milling machine
- Mono and multi-component E.V.A.

Engineering and production of plantar orthosis and comfort, technical and customised insoles.



The pressure platform is used to collect data of weight distribution in static and walking conditions. Importantly, time and pressure are combined to create a single "map" of weight distribution.



The plantar scanner Shoemaster^{OS} Ecoplan provides a system to collect 3D data of the Plantar Shape of the foot without the need to use plaster casts. The shape can be taken directly from the foot (which can be held in a corrected position), or by scanning an impression from a "foam box"



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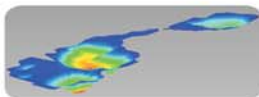


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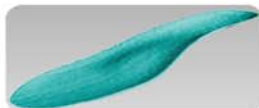


We then Design the insoles.

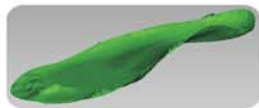
Standard insole templates are first conformed to the plantar shape of the foot and are then adjusted according to the pressure/time map.



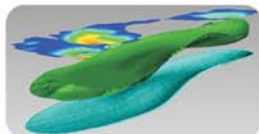
- Pressure map of weight distribution



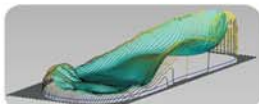
- 3D scan



- Insole templates



- Dynamic and static integrated design



- 3D Project



Finally, the insole can be designed from blocks that can have multi-layers of materials with different densities, shock absorption properties and support characteristics.

The CNC milling machine is then used to quickly recreate the customised shape of the insole.

