

Tixos has a porous surface characterized by interconnected cavities, with predetermined geometry promoting faster bone formation*.

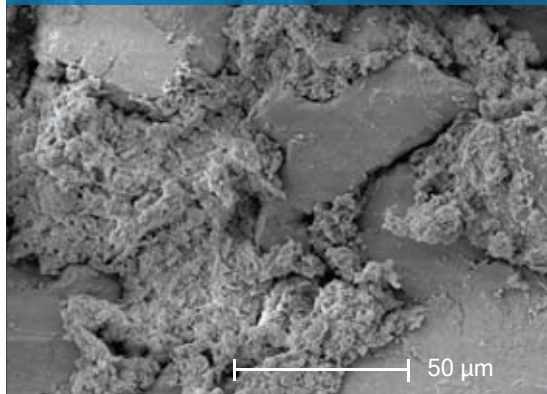


The Direct Laser Metal Forming technique
by LEADER IMPLANTS

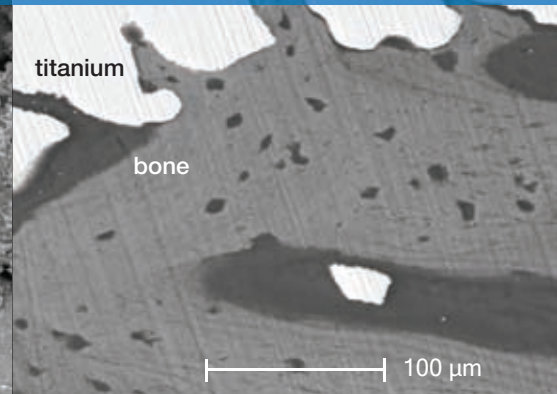
Faster Bone Growth

inside the cavities of the microfused titanium surface

New Bone Formation inside the Implant cavities and pores in human after 8 weeks



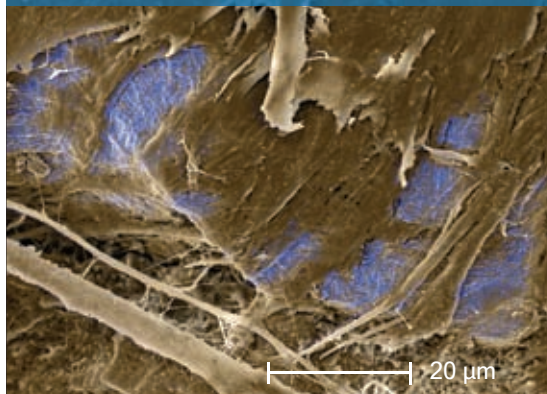
Bone growth inside the Implant concavities



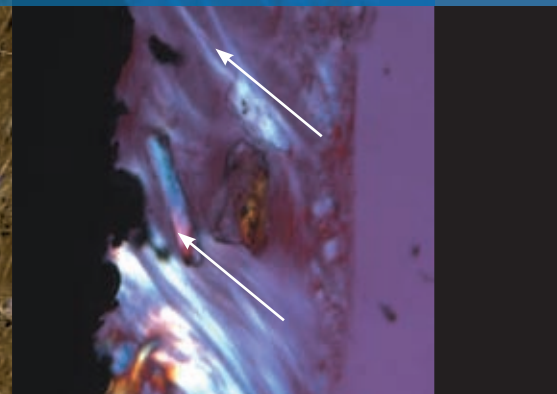
Strong adherence

between the implant neck and soft tissues

Mucosal connective fibers inserted on the surface of Tixos implant (blue)



Mucosal connective fibers show perpendicular insertion to the implant surface

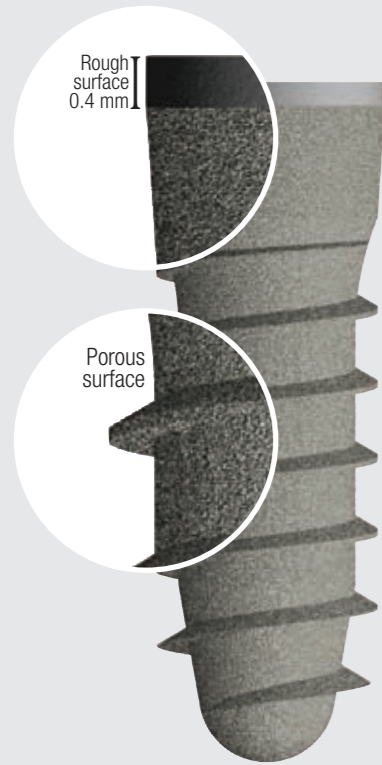


* References available upon request



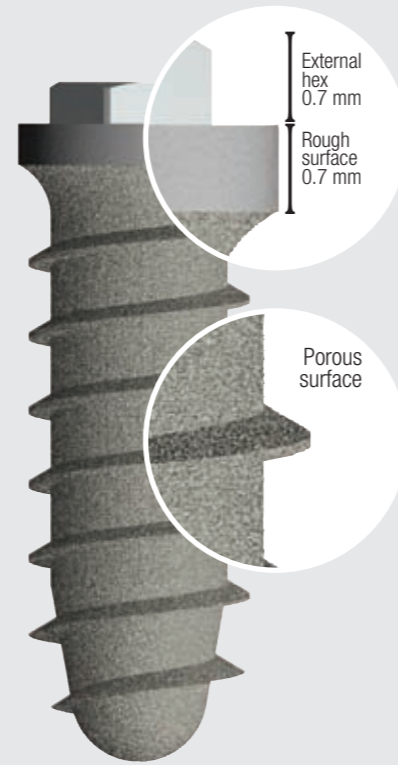
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Internal Hex



Self-threading fixtures, guarantee high adherence to bone structure.
Great resistance to horizontal (internal hex) and vertical stresses (external hex).
Equipped with mount-transfer, a multi-function instrument used as transport tool, as impression transfer and as temporary/permanent abutment.

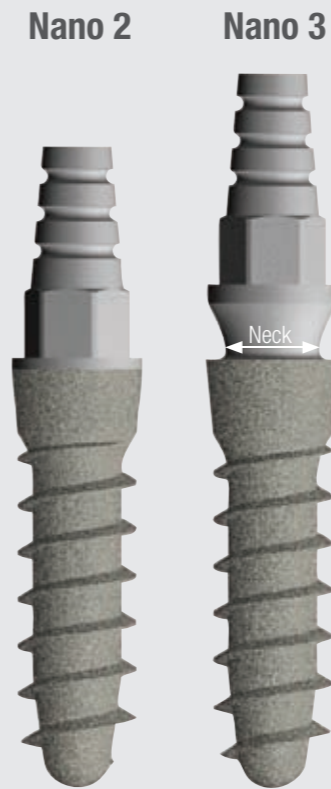
External Hex



∅	Platform	∅ core	∅ apex
3,3	3,5	2,6	1,8
3,75	4,0	3,0	2,3
4,5	5,0	3,5	2,85
5,5	6,0	4,5	4,0

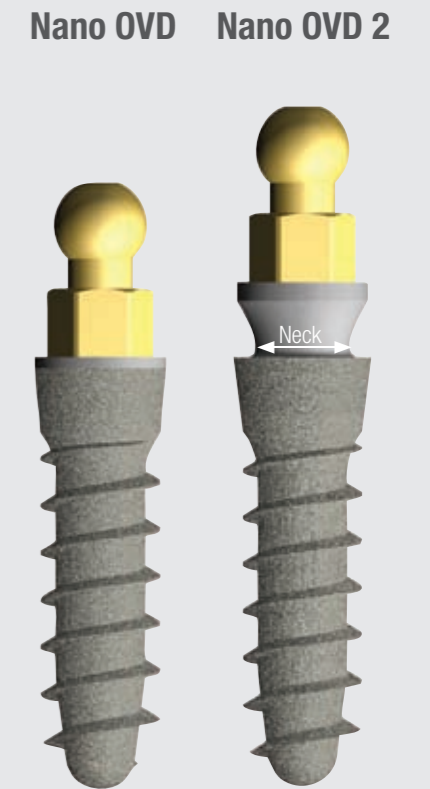
∅	Platform	∅ core	∅ apex
3,3	4,1	2,6	1,8
3,75	4,1	3,0	2,3
5,0	5,0	4,0	3,45
Tixos Short 5,0	4,1	4,2	5,0

Fix prosthesis



∅	Platform	∅ neck	∅ apex
2,7	3,5	3,2	1,45
3,2	3,5	3,7	1,85

Removable prosthesis

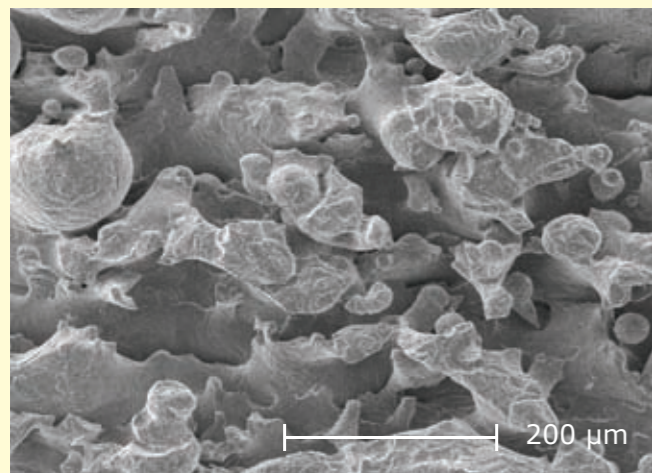


∅	Platform	∅ neck	∅ apex
2,7	3,5	3,2	1,45
3,2	3,5	3,7	1,85

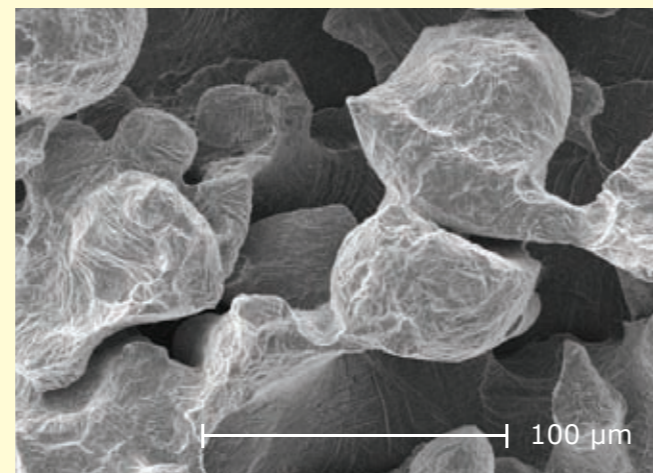
One-piece mini implants for fix and removable prosthesis (OVD), are suitable for the immediate prosthetics, both for single and multiple elements.
The upper end of Nano OVD is nitrided for long lasting.

Tridimensional network

Tixos surface



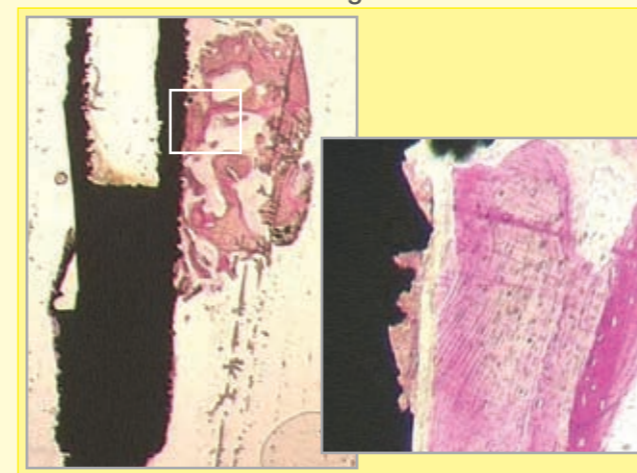
The porous appearance of Tixos surface with interconnection tunnels.



At higher magnification.

of interconnected pores

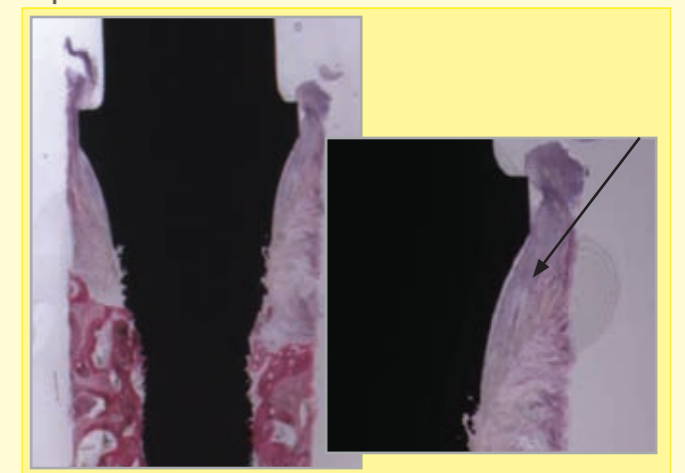
Bone response



The implant is surrounded by lamellar compact bone in close contact with the implant surface.

Connective tissue

Histological studies on human: Tixos implants retrieved after 8 weeks.



In the most coronal portion of the abutment, the connective tissue appears to be attached to the implant surface (see arrow).



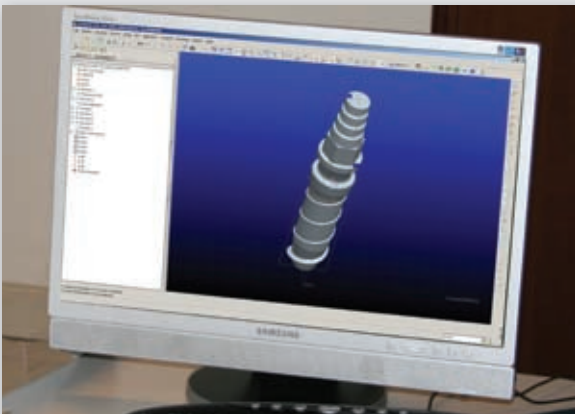
The Direct Laser Metal Forming technique by LEADER IMPLANTS

The innovative DLMF process - Direct Laser Metal Forming - used by LEADER ITALIA, enables the creation of the implant surface by a computer controlled laser beam: thanks to this revolutionary technique models with precisely defined structure and proportions based on 3D virtual data are created.

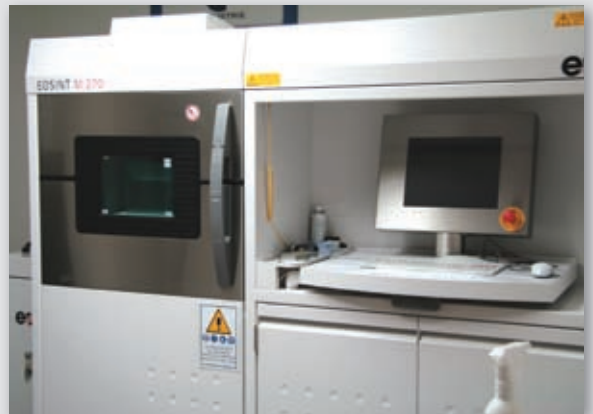
During the microfusion process, the desired implant and relative surface are produced by sintering nano-particles of metal powder by a focused laser beam.

The implant and its surface are computer designed: the resulting surface is characterized by intercommunicating cavities that replicates the bone structure, structure that is impossible to obtain through the traditional treating surface processes. The cavities geometry, with size 2 to 200 microns, and their interconnections are accurately determined during the project stage.

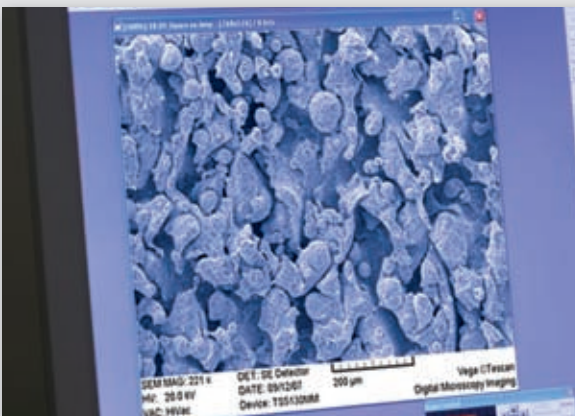
The surface concavities are colonized by bone cells.



Computer designed implant.



The desired model is produced by fusion of the metal powder nanoparticles through a focused laser beam.



Surface analysis and check by SEM.



Strict controls during the process guarantee the product quality.