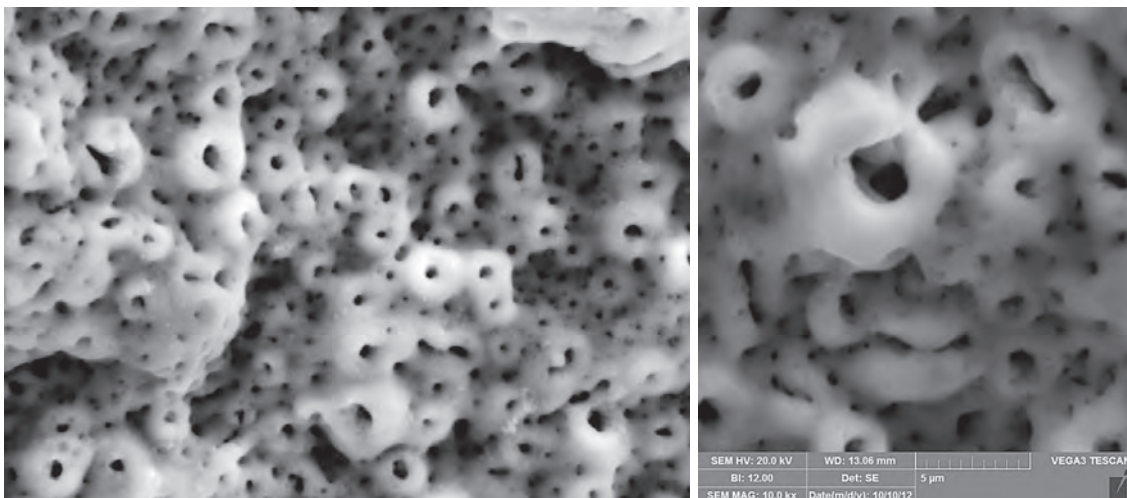


3D ACTIVE SURFACE

3D Active surface represents the latest generation of dental implant surface treatment technology. This surface is active and hydrophilic; it has distinct multi-layered microporous structure. The thickness of oxide layer of the implant surface reaches 10-12 microns. The entire thickness of the oxide layer is imbued with micropores that combine with each other and create a multi-layered surface. This way, the bone tissue grows deeper both in and between micro pores. Thereby, implant surface area is significantly increased and, thus, the contact between bone tissue and implant surface is strengthened. Titanium oxide film is enriched with calcium hydroxyapatite, and the implant surface is contaminant-free. It has prominent hydrophilic characteristics (absorption).

Researches show that **3D Active** surface stimulates active bone growth over the implant surface that results in mechanical stability. This surface property allows performing orthopedic rehabilitation at an earlier stage and significantly reduces the risk in case when the implant is installed under the one-stage procedure.

3D Active Surface is a result of a long and productive project of «STR» Surface Treatment Research laboratory (UK).



> IAK

ACTIVE CONUS

Platform Switching

- «Switching» of the platform
- Narrow connection of the implant prevents compression in cortical layer

Micro thread

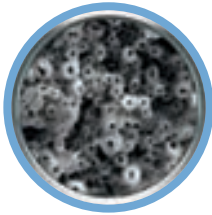
- Micro rings for better contact with a cortical plate

Intermediate thread

- Bone thread on the corticospongoid level

3D Active surface

- Unique active and hydrophilic surface of a new generation



Set includes implant plug

Two types of conical platforms with hexagon



Implant body

- Severe conical shape of the implant
- The shape of an implant matches completely the drill
- High initial stability



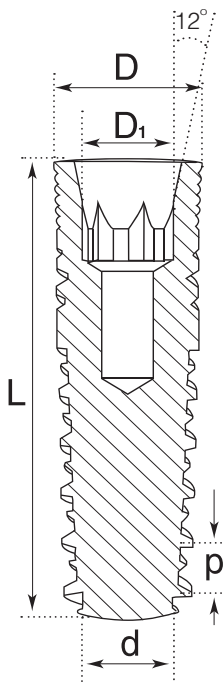
Active thread

- Has multiple levels of height, which allows enlarging the surface of the implant
- Allows achieving reliable initial stability in soft bone

Antirotational sulcus

Apical part

- Curving in apical part prevents the damage of Schneider's membrane



Active Conus implant has a platform with an inner cone and a hexagon for the positioning. This type of platform allows creating a taper connection with suprastructures. This connection is more stable and airtight. 3.25 mm diameter implants are installed in front and lateral parts (canine teeth, incisors, premolar teeth).

D, mm	D ₁ , mm	d, mm	L, mm			p, mm		
NARROW CONICAL PLATFORM 2.1 mm (3.0)								
3.25*	2.1	2.0	10	11.5	13	1.45		
3.75	2.1	2.0	8	10	11.5	13	1.45	
WIDE CONICAL PLATFORM 2.5 mm (4.2)								
4.2	2.5	2.5	8	10	11.5	13	1.45	
5.0	2.5	2.5	6	8	10	11.5	13	1.45

D₁ – size of hexagon

* force on 3.25 - 5.0, to 70 Ncm

> **Table of sequential use of conical drills for implant Active Conus**

Drill diameter, mm	1.9	2.0	2.8	3.2	3.7	4.5
Drilling rate, RPM	D1 800-1200 D2 800-1200 D3 800-1000 D4 800-1000	D1 800-1000 D2 800-1000 D3 700-900 D4 600-800	D1 600-800 D2 600-800 D3 500-600 D4 400-500	D1 500-700 D2 600-800 D3 500-600 D4 400-500	D1 500-700 D2 600-800 D3 500-600 D4 400-500	D1 400-600 D2 400-700 D3 500-600 D4 400-500

Implant diameter, mm: 16 mm, 13 mm, 11.5 mm, 10 mm, 8 mm, 6 mm

13 mm

Ø Implant: 3.25, 3.75, 4.2, 5.0

Ø Drill: 1.9, 2.0, 2.8, 3.2, 3.75, 3.7, 4.2, 4.5, 5.0

Drill marking: no marking, light blue, red, blue, green, dark green

* The drill should process 2/3 of the size of implant installed, using conical drills to form bone cavity during the installation of conical-shaped implants

> **Table of sequential use of conical diamond coated drills for implant Active Conus**

Drill diameter, mm	1.9	2.0	2.8	3.0	3.45	3.9	4.7
Drilling rate, RPM	D1 800-1200 D2 800-1200 D3 800-1000 D4 800-1000	D1 800-1000 D2 800-1000 D3 700-900 D4 600-800	D1 600-800 D2 600-800 D3 500-600 D4 400-500	D1 500-700 D2 600-800 D3 500-600 D4 400-500	D1 500-700 D2 600-800 D3 500-600 D4 400-500	D1 400-600 D2 500-700 D3 500-600 D4 400-500	D1 400-600 D2 400-700 D3 500-600 D4 400-500

Implant diameter, mm: 16 mm, 13 mm, 11.5 mm, 10 mm, 8 mm, 6 mm

13 mm

Ø Implant: 3.25, 3.75, 4.2, 5.0

Ø Drill: 1.9, 2.0, 2.8, 3.2, 3.0, 3.45, 3.75, 3.9, 4.2, 4.7, 5.0

Drill marking: no marking, light blue, red, yellow, red, blue, dark green

Diamond coated drills in Alpha Dent Implants system are developed with the aim to form a bone cavity for implants **Active, Active +, Active Bio, Active Conus** because a shape of drill perfectly recreates the shape of an implant without thread.

- * Underreamer for I and II bone type
- 1 Final drill for work in III and IV bone type
- 2 Final drill for work in I and II bone type

> ICK

CLASSIC CONUS

Platform Switching

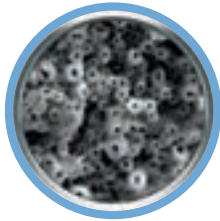
- «Switching» of the platform

Micro thread

- Micro thread for better contact with a cortical plate

3D Active surface

- Unique active and hydrophilic surface of a new generation



Antirotational sulcus



Set includes implant plug

Two types of conical platforms with hexagon



Implant body

- Implant of a cylindrical root-shape
- The shape of an implant matches completely the drill
- Initial stability is guaranteed

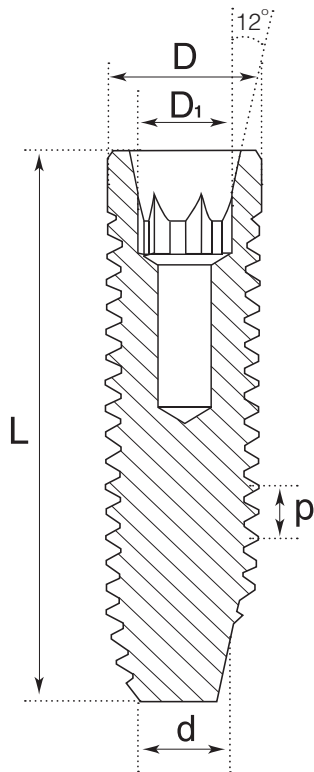


- Triangular thread

Apical part
Round shape

- Mainly used in I bone type

Titanium alloy of implants produced by Alpha Dent Implants Company combines high resistance and perfect biological compatibility with bones and tissues of human body (Grade 4 titanium).



Classic Conus implant has a platform with an inner cone and a hexagon for the positioning of dental structures. This type of platform allows creating a perfect taper connection with suprastructures. This connection is more airtight and has a better load distribution. 3.3 mm diameter implants are installed in front and lateral parts (canine teeth, incisors, premolar teeth).

D, mm	D ₁ , mm	d, mm	L, mm				p, mm
NARROW CONICAL PLATFORM 2.1 mm (3.0)							
3.3 *	2.0	2.1	8	10	11.5	13	0.6
3.75	2.0	2.1	8	10	11.5	13	0.6
WIDE CONICAL PLATFORM 2.5 mm (4.2)							
4.2	2.5	2.5	8	10	11.5	13	0.6
5.0	2.5	2.5	8	10	11.5	13	0.6

D₁ – size of hexagon

* force on 3.3, not more than 40 NCm

► **Table of sequential use of conical drills for implant Classic Conus**

Drill diameter, mm	1.9	2.0	2.8	3.2	3.7	4.5
Drilling rate, RPM	D1 800-1200 D2 800-1200 D3 800-1000 D4 800-1000	D1 800-1000 D2 800-1000 D3 700-900 D4 600-800	D1 600-800 D2 600-800 D3 500-600 D4 400-500	D1 500-700 D2 600-800 D3 500-600 D4 400-500	D1 500-700 D2 600-800 D3 500-600 D4 400-500	D1 400-600 D2 500-700 D3 500-600 D4 400-500

Implant diameter, mm: 16 mm, 13 mm, 11.5 mm, 10 mm, 8 mm, 6 mm

13 mm

Classic

Ø Implant	3.3				3.75	4.2	5.0
Ø Drills	1.9	2.0	2.8	3.2	3.7	4.5	
Ø Bone tap			3.3	3.75	4.2	5.0	

Drill marking: no marking → [Red Arrow] → [Blue Arrow] → [Green Arrow]