



DESS

DENTAL SMART SOLUTIONS



AURUMBase®
Catalogue 2021



AURUMBase®

There are numerous clinical situations where the long-axis of the implant results in an unfavorable location of the prosthetic screw access hole. One solution might be to sacrifice the retrievability and cement over the access hole or compromise the esthetic results.

Now DESS introduce the AURUMBase® system that will allow for an angular adjustment of up to 25°. The specially designed Torx®-based screw and driver concept will retain the ability to use full recommended torque even at full angulation.

The AURUMBase® is made of titanium grade V ELI and has a gold-anodized surface finishing that will further optimize the appearance especially in the esthetic zone. The shaft surface also features the patented and well proven SelectGrip® for optimal cement retention.

To facilitate prosthetic work using traditional casting procedures AURUMBase® pre-formed castable caps can be used. They are delivered in multi-packs of 5 pieces, in a straight version as well as pre-angled with 10° and 20°. They are designed to optimize the placement and tightening of the AURUMBase® screw with the special driver.

To optimize the possible angulation of the access hole the shaft of the AURUMBase® has been reduced to only 3mm, but with a bonding area of more than 33mm², bigger than other higher but sliced solutions.

During the development we conducted both de-bonding and static Fatigue tests comparing the results not only to the standard DESS TI-Base but also to competitors' components.

A dynamic fatigue test was also conducted and passed the required 5 million load cycles.

For angulated screw channel access

Made in titanium grade V ELI with an anodized gold hue surface.

Available for most platforms with engaging and non-engaging versions.

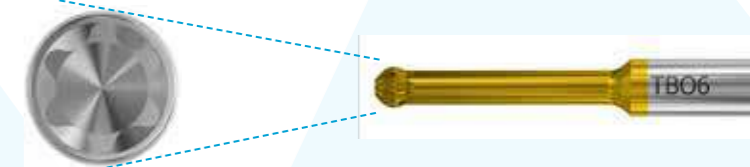


AURUMBase® Castables

Unique, pre-formed castable caps in Straight, 10° and 20° angles for non CAD/CAM procedures.

AURUMBase® Driver and screw system

The AURUMBase® TB06 drivers follow strictly the Torx® ball system design parameters. Torx® has set the global standard in reliability. This will assure optimal fastening torque even at maximum angle of the driver.



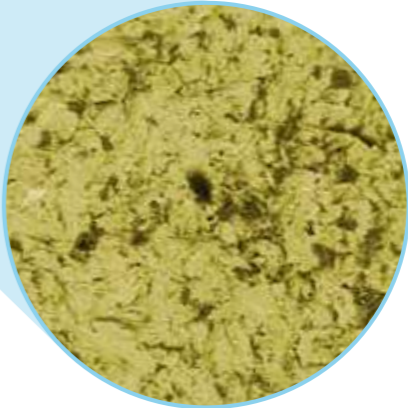
AURUMBase[®]

Features & benefits

Up to 30% reduction in the emergence hole design within CAD libraries to further improve the flexibility and esthetic outcome.

bevelled edge to optimize the driver angulation

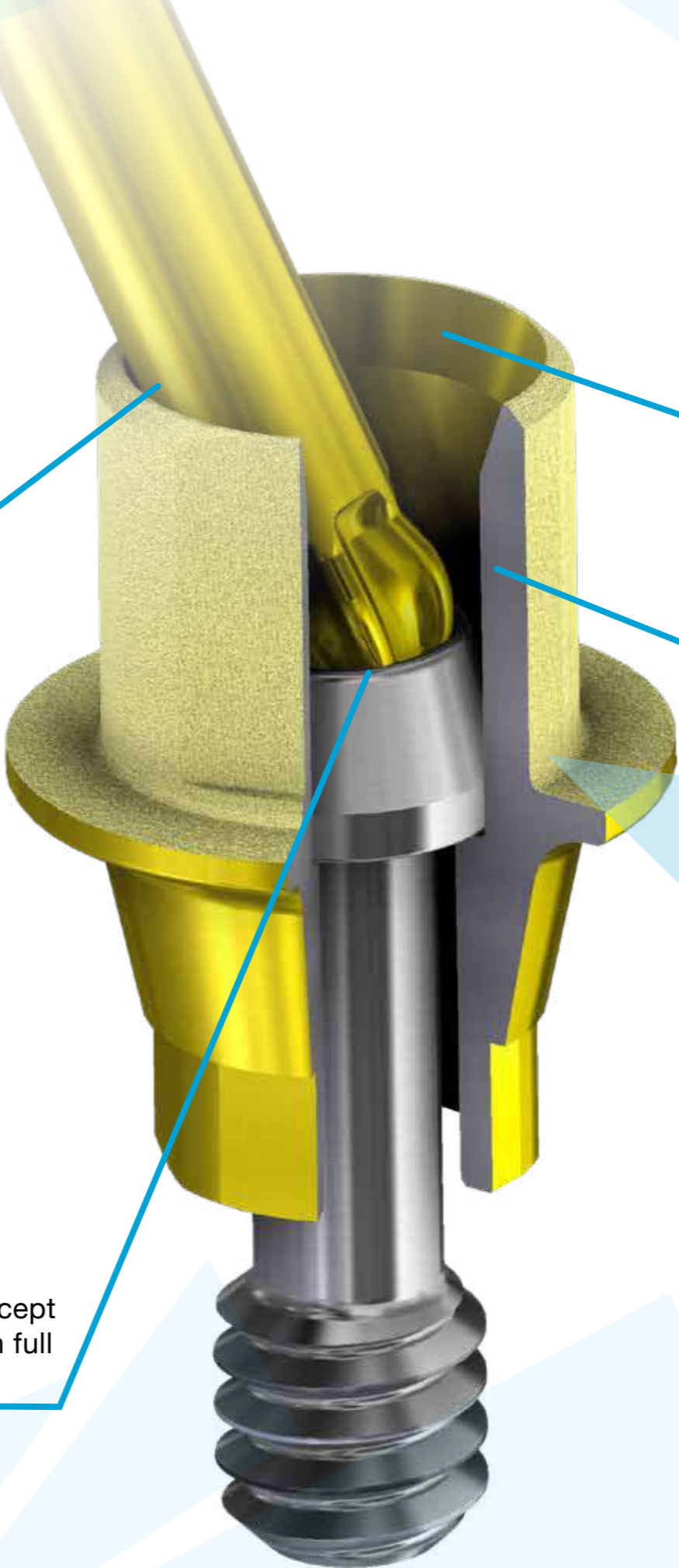
Made of Titanium Grade V ELI with a gold anodize surface finish.



Cement shaft with patented SelectGrip[®] surface for optimal crown retention



Torx[®] based screw and driver concept allow for up to 25° angulation with full recommended torque

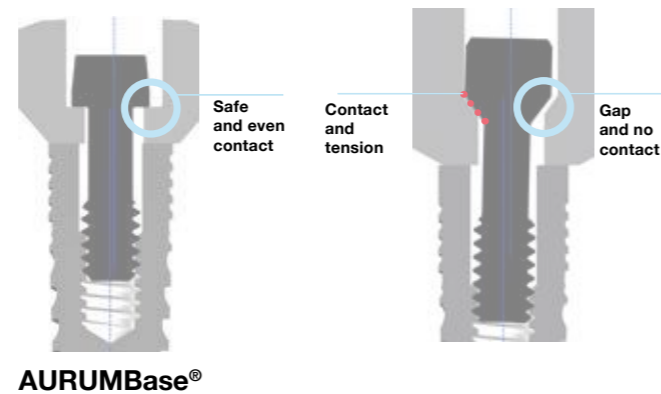


Technical Solutions

Torx® AURUMBase® Screw system

All AURUMBase®

Screws have a flat seat to minimize tension when there is a slight misalignment between screw retained structures and implants. A flat design is more forgiving and transfers the torque to an optimal preload of the screw. A conical screw requires a perfect alignment and centering between the screw and seat.



Technical Solutions

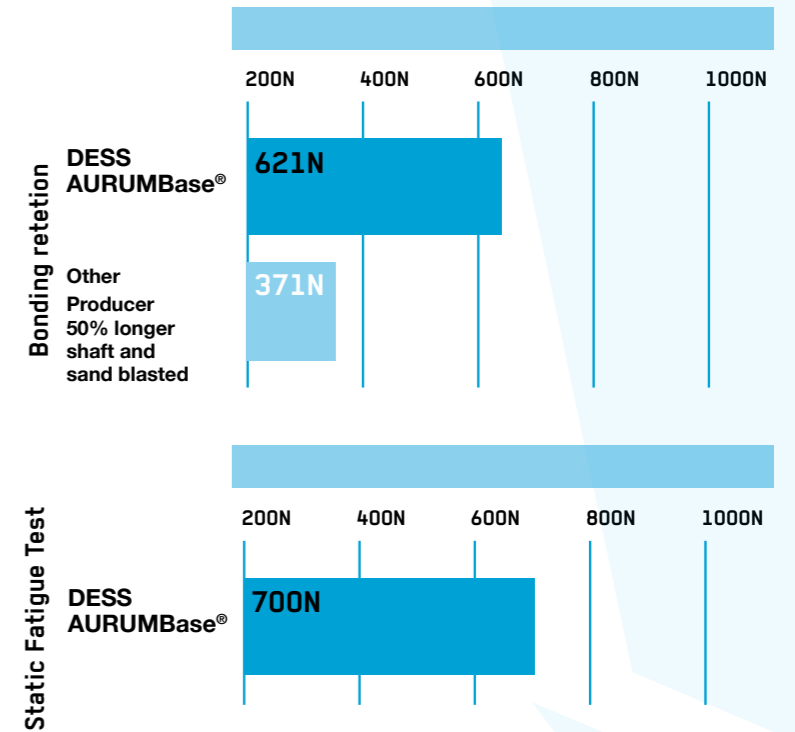
Bond and Fatigue strenght



DESS **AURUMBase®** has comparable bonding retention to DESS Ti-Base and clearly superior to a competitor brand with a 50% longer cement shaft once sandblasted.



No significant difference in static fatigue strength between DESS **AURUMBase®** and DESS Ti Base in standard ISO 13485 test using Zirconia caps despite AURUMBase® having a 33% shorter shaft.



Technical Solutions

Torx® ball AURUMBase® Driver and screw system

All AURUMBase®

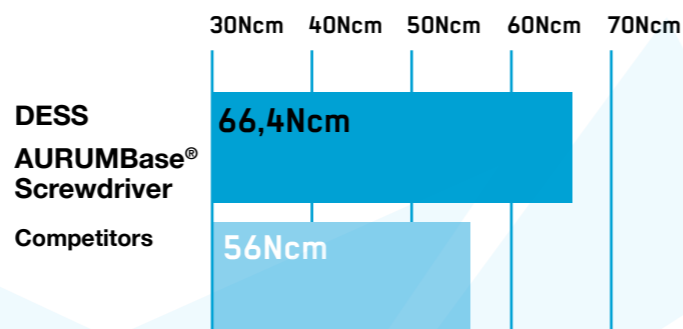
Screws feature the standard ISO 10.664 Torx®06 screw head and can be used in straight operations with any standard Torx®06 driver.



The **AURUMBase®** TB06 drivers follow strictly the Torx® ball system design parameters. Torx® has set the global standard in reliability. This will assure optimal fastening torque even at maximum angle of the driver.

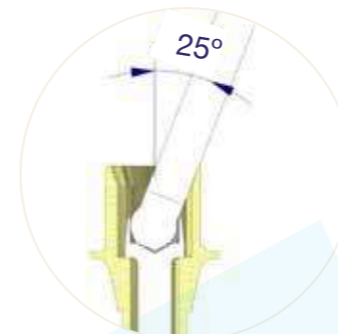
All **AURUMBase®** screw and screwdrivers are compatible with other systems on the market accomplishing ISO 10.664.

Average Breaking Torque for Drivers

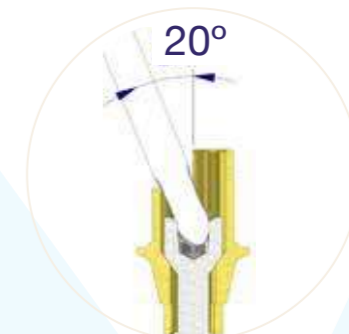


AURUMBase®

Graphic illustration comparing DESS **AURUMBase®** solution and the common design of competitors' where part of the cylinder is cut open to allow the angulation of the screwdriver. This design does not increase the possible tilt while it introduces other possible mechanical disadvantages. The cylinder cut design restricts the rotational freedom of the entry angle.



AURUMBase®




Competitors' design


AURUMBase®




NobelActive® NobelReplace® CC

Active Hex			NP/3.5	WP/5.5
	non-engaging		36.041	36.042
	engaging		37.041	37.042
	screw		19.441	19.442


Nobel Replace Select™

Tri-Lobe			NP/3.5	RP/4.3	WP/5.0
	non-engaging		36.004	36.005	36.006
	engaging		37.004	37.005	37.006
	screw		19.404	19.405	19.405


NobelBrånemark®

External Hex Universal			NP/3.5	RP/4.1	
	non-engaging		36.001	36.002	0,3mm
	non-engaging		36.001/2	36.002/2	1,5mm
	non-engaging		36.001/3	36.002/3	2,5mm
	engaging		37.001	37.002	0,3mm
	engaging		37.001/2	37.002/2	1,5mm
	engaging		37.001/3	37.002/3	2,5mm
	screw		19.401	19.402	


3i Osseotite®

External Hex USA			NP/3.4	RP/4.1	WP/5.0	
	non-engaging		36.011	36.012	36.013	0,3mm
	non-engaging		36.011/2	36.012/2	36.013/2	1,5mm
	non-engaging		36.011/3	36.012/3	36.013/3	2,5mm
	engaging		37.011	37.012	37.013	0,3mm
	engaging		37.011/2	37.012/2	37.013/2	1,5mm
	engaging		37.011/3	37.012/3	37.013/3	2,5mm
	screw		19.402	19.402	19.402	


3i Certain®

Internal Hex "CLICK"			NP/3.4	RP/4.1	WP/5.0
	non-engaging		36.014	36.015	36.016
	engaging		37.014	37.015	37.016
	screw		19.438	19.438	19.438


Straumann® Tissue Level & synOCTA®

Octagon			RN/4.8	WN/6.5
	non-engaging		36.046	36.016
	engaging		37.009	37.045
	screw		19.446	19.446


Straumann® Bone level®

Conical BL			NC/3.3	RC/4.1
	non-engaging		36.043	36.044
	engaging		37.043	37.044
	screw		19.443	19.443


Straumann® BLX

Conical BLX			RB	WB
	non-engaging		36.062	36.063
	engaging		37.062	37.063
	screw		19.441	19.441

Neodent Grand Morse®



NEO GM				GM
	non-engaging			36.035/3
	engaging			37.035/3
	screw			19.404

Zimmer® Screw-vent


Internal Hex USA			NP/3.5	RP/4.5	WP/5.7
	non-engaging		36.037	36.038	36.039
	engaging		37.017	37.019	37.019
	screw		19.417	19.417	19.417




Astra Tech implant system™ EV

Conic EVO	EV/3.6	EV/4.2	EV/4.8	
	non-engaging	36.059	36.060	36.061
	engaging	37.059	37.060	37.061
	screw	19.441	19.460	19.461
	on uniabutment®	36.058		


Astra Tech Osseospeed™

Internal Hex Conic	RP/3.5-4.0	WP/4.5-5.0	
	non-engaging	36.024	36.025
	engaging	37.024	37.025
	screw	19.441	19.425


Xive®

Internal Hex FD	NP/3.4	RP/3.8	WP/4.5	
	non-engaging	36.038	36.039	36.040
	engaging	37.038	37.039	37.040
	screw	19.438	19.438	19.438


Osstem® TS / Hiossen® ET

Conic OSS	MINI/MINI	STD/REGULAR	
	non-engaging	36.072	36.073
	engaging	37.072	37.073
	screw	19.444	19.461


Camlog®

Internal Cam	3.8	4.3	
	non-engaging	36.065	36.066
	engaging	37.065	37.066
	screw	19.444	19.444


Conelog®

Internal Con	NP/3.3	RP/3.8-4.3	WP/5.0	
	non-engaging	36.074	36.075	36.076
	engaging	37.074	37.075	37.076
	screw	19.474	19.474	19.476


Biohorizons® internal

Internal hex BH	NP/3.5	RP/4.5	WP/5.7	
	non-engaging	36.087	36.088	36.089
	engaging	37.087	37.088	37.089
	screw	19.417	19.417	19.417


MIS® seven

Internal hex MI	SP/STANDARD	WP/WIDE	
	non-engaging	36.017	36.018
	engaging	37.017	37.018
	screw	19.417	19.417

Megagen AnyRidge®

Conic Anyr		
	non-engaging	36.057
	engaging	37.057
	screw	19.460

Medentis ICX®

Conic IC			
	non-engaging	36.080	0,3mm
	non-engaging	36.180	1,5mm
	engaging	37.080	2,5mm
	engaging	37.180	0,3mm
	screw	19.444	1,5mm
	screw	19.443	2,5mm

Dentium Superline™ & Implantium®

Conic DENT

RP/YELLOW/GREEN/BLUE/RED
3.8 3.6 4.0 4.5 5.0



non-engaging	36.090
engaging	37.090
screw	19.405

Phibo® TSH®

External Hex PH

NP/S2 SP/S3-S4 WP/S5



non-engaging	36.030	36.031	36.032	2,2mm
non-engaging	36.030/2	36.031/2	36.032/2	0,9mm
non-engaging	36.030/3	36.031/3	36.032/3	2,2mm
engaging	37.030	37.031	37.032	0,9mm
engaging	37.030/2	37.031/2	37.032/2	2,2mm
engaging	37.030/3	37.031/3	37.032/3	0,9mm
screw	19.403	19.402	19.402	

Osstem® TS / Hiossen® ET

Multi-Unit

RP/4.8 WP/6.5



non-engaging	36.007	36.054
screw	19.306	19.331

Plastic sleeves for AURUMBase®



Pack de 5	0°	33.100-P5
Pack de 5	10°	33.101-P5
Pack de 5	20°	33.102-P5

Plastic sleeves for AURUMBase®



Pack de 5	0°	33.200-P5
Pack de 5	10°	33.201-P5
Pack de 5	20°	33.202-P5

Torx® ball Screwdriver

20 mm 24 mm 30 mm 35 mm



DT20TB06 DT24TB06 DT30TB06 DT35TB06

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