



 **ASC**  
BLANK & PRE-MILLED





## ASC BLANCK & PRE-MILLED

Over the last decade, we've seen a revolutionary transformation in the dental industry. New technology added to the rise of System as Service solutions are setting the grounds for more customisation in the abutments market.

At DESS®, we pioneered launching our first range of pre-milled blanks back in 2012, but the market wasn't there yet.

In the recent years, however, both in-house milling machines and the CAD/CAM software have not only improved but also made the customisation more affordable.

This, in conjunction with a new generation of professionals, are helping modern dentistry to thrive and be at the foreground of the industry.

DESS® has become one of the leading manufacturers of pre-milled blanks and a reference in the 'Do it Yourself' dentistry.

DESS® offers a full assortment of Titanium grade V ELI pre-milled blanks available in 10mm & 14mm diameters in the most popular implant connections of the market.

In a pioneering move within product innovation, DESS® now offers the groundbreaking ASC Pre-milled, featuring an innovative Angulated Screw Channel designed for custom abutments.

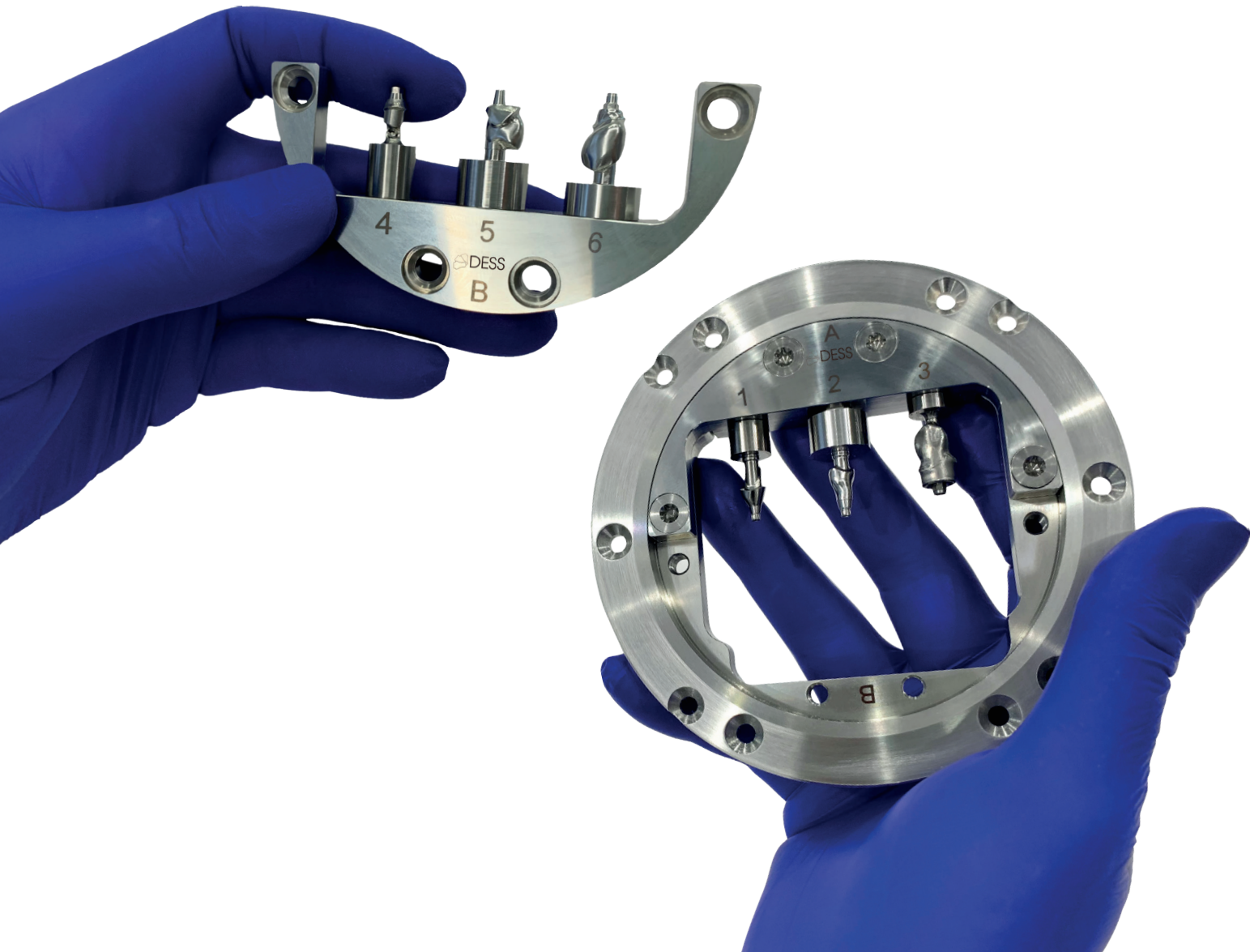
The blanks work together with the DESS® holder systems, especially developed for Imes-Icore® VHF® machines, Yenadent®. A universal holder is also available for any other machines that use standard 98mm discs and 3R rapid changers.

# HOLDERS

The DESS® holder system offers numerous benefits compared to other solutions:

Quick "screw-on" system where the pre-milled blanks are attached to a subholder outside the machine and then placed in the holder that remains in the machine. This makes it easier, cleaner, and faster when it comes to placing and removing blocks.

Also, due to the unique way of "pull down and lock" holding system with a screw that secures the pre-milled blank, maximum precision and stability during the milling process is achieved. Pre-milled socket positions and sub-holders are laser-identified to better ensure precise component placement and optimise the milling process.



## Pre-milled ø10 ø14mm

DESS® Pre-milled Blanks are manufactured in Titanium Grade V ELI (extra low interstitial), recognized for its exceptional strength-to-weight ratio, high corrosion resistance, and superior biocompatibility, making it ideal for medical and dental applications. Available in both 10mm and 14mm diameters, DESS® blanks provide versatile options to suit various design requirements.





























DESS® offers two specialised types of Pre-milled Blanks to address the diverse implantology needs:

- Straight Screw Channel Pre-milled Blanks:** Designed for direct and straightforward restorative cases where the screw channel will be aligned vertically with the implant axis. They provide a robust foundation for restorations that require a conventional approach to screw-retained prosthetics.
- Angulated Screw Channel (ASC) Pre-milled Blanks:** Engineered for complex cases involving angled screw channels, permitting 25 degrees of correction relative to the implant axis. This design innovation enables clinicians to achieve optimal aesthetic outcomes even in challenging cases where the implant's position would typically necessitate a compromise in the prosthetic's appearance or function.

By offering these two types, DESS® ensures that dental professionals can select the most suitable blank for each unique clinical scenario, enhancing the functionality and esthetics of the final restorations while streamlining the production process.

### Available compatibilities:

DESS® Has the most comprehensive range of blank premilled, in the market.

 ACTIVE HEX NOBELACTIVE® & NOBELREPLACE® CC	 CONICAL BLX STRAUMANN® BLX	 CONIC OSS OSSTEM® TS	 CONIC MV MIS® V3
 TRI-LOBE NOBELREPLACE SELECT™	 NEO GM NEODENT® GRAND MORSE	 INTERNAL CAM CAMLOG®	 CONIC ANYR MEGAGEN AnyRidge®
 EXTERNAL HEX UNIVERSAL NOBEL BRÄNEMARK®	 INTERNAL HEX USA ZIMMER VIS-VENT®	 INTERNAL CON CONELOG®	 CONIC AXIO ANTHOGRYR AXIOM®
 EXTERNAL HEX USA 3i OSSEOTITE®	 CONIC EVO ASTRA TECH IMPLANT SYSTEM™ EV	 INTERNAL HEX BH BIOHORIZONS® INTERNAL	 CONIC IC MEDENTIS ICX®
 INTERNAL HEX "CLICK" 3i CERTAIN®	 INTERNAL HEX CONIC ASTRA TECH OSSEOSPEED™	 EXTERNAL HEX BH BIOHORIZONS® EXTERNAL	 CONIC DENT DENTIUM SUPERLINE™ & IMPLANTUM®
 OCTAGON STRAUMANN® SOFT TISSUE LEVEL & synOcta®	 INTERNAL HEX FD DENTSPLY FRIADENT XIVE®	 INTERNAL HEX MI MIS® SEVEN	 INTERNAL SEM BEGO Semados®
 CONICAL BL STRAUMANN® BONE LEVEL	 INTERNAL ANK DENTSPLY ANKYLOS® C/X	 CONIC MC MIS® C1	 CONIC BIO BIOTECH CONTACT®



# PRE-MILLED



## TECHNICAL INFORMATION

- Titanium Grade V ELI 23
- 2 diameter options: ø10mm and ø14mm
- Engaging version
- Two versions of ASC (Angulated Screw Channel)  
Premilled: corner and flat
- Starting gingival transition of 0,3mm
- Total millable length of 17mm
- Combined with our free libraries for Exocad®, 3Shape® and Dental wings®
- CE: Class IIb
- FDA: Class II



## FEATURES

- Pure Switch® concept
- Screw included - same screw design as OEM
- “Pull down and lock” holding system for stable clamping



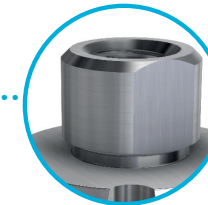
## CLINICAL BENEFITS

- Premilled connection with DESS precision

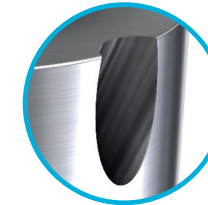


## BUSINESS BENEFITS

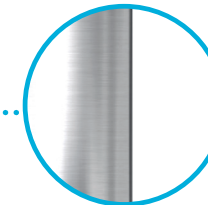
- Pure Switch®: no special tools required, same workflow as the OEM product
- Allows full customisation with the precision of the DESS connection
- Digital Workflow: a multi-platform prosthetic restoration library system to simplify the digital process
- Integration in CAM softwares: Sum 3D®, HyperDent®, VHF®, Imes-Icore®, Worknc®, Dental Softworks®, Mill Box®



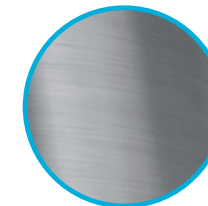
“Pull down and lock” holding system. Developed by DESS® back in 2012, allows a strong and precise positioning of the pre-milled blank inside its socket.



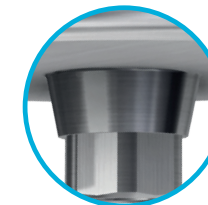
25° Angulated Screw Channel for best aesthetic results.



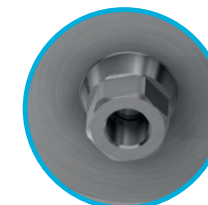
A total millable length of 17mm makes it one of the longest in the market.



Titanium Grade V ELI.



Minimal gingival transition height of 0,3 mm to allow maximum design freedom.



Pre-mechanised connection that ensures perfect implant-prosthetic connection.



# PRE-MILLED BLANK

DESS® Pre-milled Blanks are manufactured in Titanium Grade V ELI, which make them lightweight and incredibly strong whilst ensuring the utmost compatibility within biological systems.

Our Pre-milled Blanks are available in standardised diameters of ø10 and ø14mm, being compatible with a wide range of dental milling machines and technologies. Each blank is precision-engineered to exact dimensions, offering consistent results and ensuring that each blank is devoid of defects and ready for the precise creation of dental prosthetics.

DESS® takes pride in our comprehensive quality assurance protocols. Each blank is subjected to a rigorous inspection process, ensuring that they meet the highest standards for purity, dimensional accuracy, and structural integrity.

Furthermore, DESS® is dedicated to sustainable manufacturing practices. The production of our Pre-milled Blanks and the rest of our products is conducted with environmental responsibility at the forefront, minimising waste and reducing the ecological footprint.



# ASC BLANK

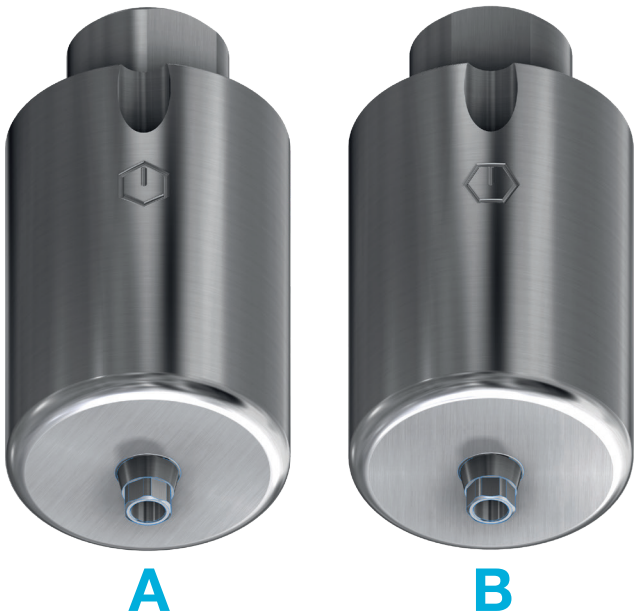
DESS® ASC Blank is the first pre-manufactured Angulated Screw Channel pre-milled on the market, offering 25 degrees of angulation adjustment in relation to the implant's axis. This innovative design allows dental professionals to achieve optimal aesthetic and functional results even in challenging cases where the implant placement makes it difficult.

- Milled Angulated Screw Channel of 25°
- 17mm millable length
- Available for Straumann® Bone Leve and NobelActive® compatibilities.
- Available in 2 versions according to indexation



# TYPE A & B

According to the indexation, ASC premilled blanks ara available in two types, A and B.



- Corner
- Flat
- Shaft orientation
- Implant position

Holders:

If you have decided to use the DESS® Pre-mills and Blocks systems, and found a holder compatible with your milling machine, then there are different alternatives on how to work on the DESS Digital Workflow. First, we need to define your set-up.

CAM Software:

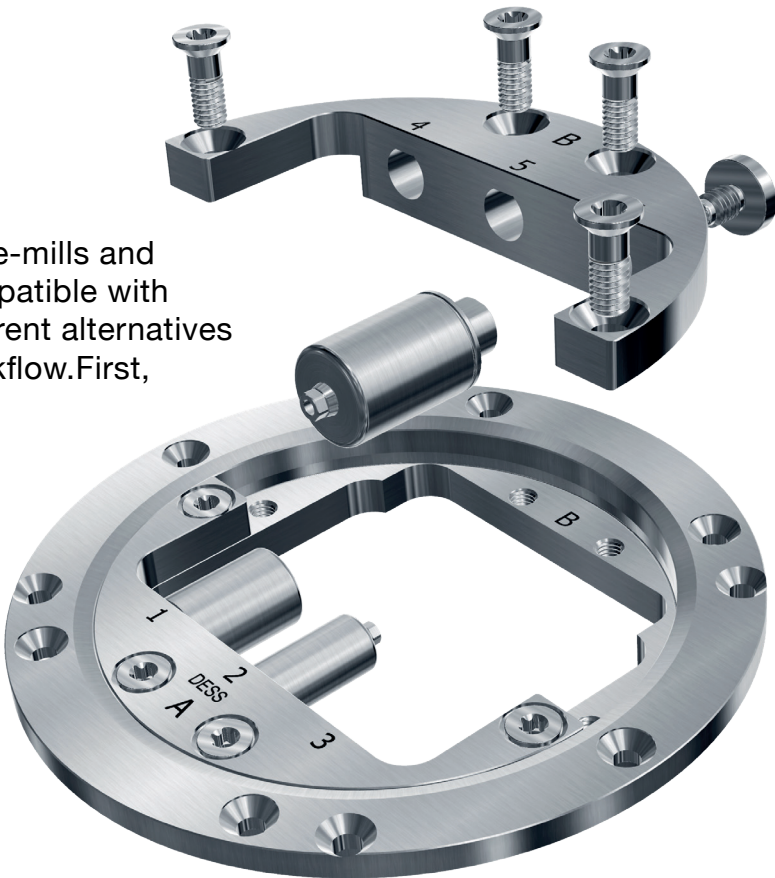
It is important to know what type of CAM software you’re using.

Original CAM\*:

If you’re using the original CAM software from VHF or Imes, you have to contact the manufacturer or reseller and request the DESS® holder. If this supplier isn’t able to provide you with the holder, you probably will need to pay a “Liberation Fee” that will unlock the software, and will allow you to use our holder.

3rd Party CAM:

If you are already using a different software, you can acquire the holder directly from DESS®.



PRE-MILLED BLANK



		3.0	NP	RP	WP
NobelActive® NobelReplace® CC		3.0	3.5	4.3/5.0	5.5
Active Hex					
Ø 10mm	Ti	61.068	61.041	61.042	61.069
Ø 14mm	Ti		62.041	62.042	62.069
Ø 14mm	CoCr		71.041		71.069

		3.0	NP	RP	WP
NobelActive® NobelReplace® CC		3.0	3.5	4.3/5.0	5.5
Active Hex					
Ø 10mm	Ti	A corner	61.349		
Ø 10mm	Ti	B flat	71.349		
Ø 14mm	Ti	A corner		61.341	61.342
Ø 14mm	Ti	B flat		71.341	71.342*

		NP	RP	WP	6.0
NobelReplace Select™		NP/3.5	RP/4.3	WP/5.0	6.0
Tri-Lobe					
Ø 10mm	Ti	61.004	61.005	61.006	61.097
Ø 14mm	Ti		62.005	62.006	62.097
Ø 14mm	CoCr	71.004	71.005	71.006	71.097

		NP	RP	WP
NobelBranemark®		NP/3.5	RP/4.1	WP/5.1
External Hex Universal				
Ø 10mm	Ti	61.001	61.002	61.003
Ø 14mm	CoCr	71.001	71.002	71.003

DENTAL SOFTWARES

hyperDENT

vhf



worknc Dental

imes-icore  
Competence in CNC & DENTAL-Solutions

\*Please contact your DESS Distributor to get additional information.

\*NOT FDA





3i Osseotite®  
External Hex USA

		NP	RP	WP
		3.4	4.1	5.0
Ø 10mm	Ti	61.011	61.012	61.013
Ø 14mm	CoCr	71.011	71.012	71.013



A

B

Straumann® Bone Level  
Conical BL

		NP	RP	SRA
		NC/3.3	RC/4.1-4.8	4.6
Ø 14mm	Ti	61.343	61.344	
Ø 14mm	Ti	71.343	71.344	



3i Certain®  
Internal Hex “CLICK”

		NP	RP	WP
		3.4	4.1	5.0
Ø 10mm	Ti	61.014	61.015	61.016
Ø 14mm	Ti		62.015	62.016
Ø 14mm	CoCr			71.016



Straumann® BLX  
Conical BLX

		RB/WB	WB
		3.5	4.5
Ø 10mm	Ti	61.062	
Ø 14mm	Ti		62.063
Ø 14mm	CoCr		71.063



Straumann® Soft Tissue Level & synOcta®  
Octagon

		NNC	RN	WN
		3.5	4.1/4.8	4.8/6.5
Ø 10mm	Ti	61.070	61.009	61.045
Ø 14mm	Ti		62.009	62.045
Ø 14mm	CoCr	71.070		



Neodent Grand Morse®  
NEO GM

		GM
Ø 10mm	Ti	61.035
Ø 14mm	Ti	62.035
Ø 14mm	CoCr	71.035



Straumann® Bone Level  
Conical BL

		NP	RP	SRA
		NC/3.3	RC/4.1-4.8	4.6
Ø 10mm	Ti	61.043	61.044	
Ø 14mm	Ti	62.043	62.044	
Ø 14mm	CoCr		71.044	



A

B



ASC BLANK

Ø 10mm	Ti	61.340
Ø 14mm	Ti	71.340

Available from April 2025.



**Zimmer Screw-Vent®**  
Internal Hex USA

		NP	RP	WP
		3.5	4.5	5.7
Ø 10mm	Ti	61.017	61.018	61.019
Ø 14mm	Ti	62.017	62.018	62.019
Ø 14mm	CoCr	71.017	71.018	71.019



**Astra Tech Osseospeed™**  
Internal Hex Conic

		NP	RP	WP
		3.0	3.5-4.0	4.5-5.0
Ø 10mm	Ti	61.023	61.024	61.025
Ø 14mm	Ti		62.024	62.025
Ø 14mm	CoCr		71.024	



**Zimmer Screw-Vent®**  
Internal Hex USA

			NP	RP	WP
			3.5	4.5	5.7
Ø 14mm	Ti	A corner	61.317	61.318	
Ø 14mm	Ti	B flat	71.317	71.318	

Available from April 2025.



**Dentsply friadent® XIVE®**  
Internal Hex FD

		NP	RP	WP	5.5
		3.4	3.8	4.5	5.5
Ø 10mm	Ti	61.038	61.039	61.040	61.071
Ø 14mm	Ti		62.039	62.040	62.071
Ø 14mm	CoCr	71.038	71.039		71.071



**Astra Tech Implant System™ EV**  
Conic EVO

		EV/3.0	EV/3.6	EV/4.2	EV/4.8	EV/5.4
		3.0	3.6	4.2	4.8	5.4
Ø 10mm	Ti	61.406	61.059	61.060	61.061	61.407
Ø 14mm	Ti		62.059	62.060	62.061	62.407
Ø 14mm	CoCr		71.059	71.060	71.061	71.407



**Osstem® TS**  
Conic OSS

		Mini	STD
		Mini	Regular
Ø 10mm	Ti	61.072	61.073
Ø 14mm	Ti	62.072	62.073
Ø 14mm	CoCr	71.072	



**Astra Tech Implant System™ EV**  
Conic EVO

			EV/3.0	EV/3.6	EV/4.2	EV/4.8	EV/5.4
			3.0	3.6	4.2	4.8	5.4
Ø 10mm	Ti	A corner	61.357				
Ø 10mm	Ti	B flat	71.357				
Ø 14mm	Ti	A corner		61.359	61.360		
Ø 14mm	Ti	B flat		71.359	71.360		

Available from April 2025.



**Osstem® TS**  
Conic OSS

			Mini	STD
			Mini	Regular
Ø 14mm	Ti	A corner	61.345	61.348
Ø 14mm	Ti	B flat	71.345	71.348

Available from April onwards.





Ankylos® C/X  
Internal ANK

Ø 10mm	Ti				61.250
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Camlog®  
Internal CAM

			3.3	3.8	4.3	5.0
Ø 10mm	Ti		61.064	61.065	61.066	61.067
Ø 14mm	Ti			62.065	62.066	62.067
Ø 14mm	CoCr		71.064		71.066	71.067



Conelog®  
Internal CON

		NP	RP	WP
Conelog®				
Internal CON		3.3	3.8/4.3	5.0
Ø 10mm	Ti	61.074*	61.075*	61.076*
Ø 14mm	Ti	62.074*	62.075*	62.076*
Ø 14mm	CoCr	71.074*	71.075*	71.076*



Biohorizons®  
Internal Hex BH

			3.0	NP	RP	WP
Ø 10mm	Ti		3.0	3.5	4.5	5.7
Ø 10mm	Ti		61.099	61.087	61.088	61.089
Ø 14mm	Ti				62.088	62.089



Biohorizons®  
Internal Hex BH

			3.0	NP	RP	WP
Ø 14mm	Ti	A corner	3.0	3.5	4.5	5.7
Ø 14mm	Ti	B flat	71.311	71.312	71.313	

Available from April 2025.

A

B

\*NOT FDA



Biohorizons®  
External Hex BH

			NP	RP	WP
Ø 10mm	Ti		3.7	4.2	5.2
Ø 10mm	Ti		61.020*	61.021*	61.022*
Ø 14mm	Ti		62.020*	62.021*	62.022*
Ø 14mm	CoCr		71.020*	71.021*	71.022*



MIS® Seven  
Internal Hex MI

			NP	SP	WP	Multi-Unit
Ø 10mm	Ti		3.3	3.75-4.2	5.0-6.0	4.8
Ø 10mm	Ti		61.056	61.095	61.096	
Ø 14mm	CoCr				71.096	



MIS® C1  
Conic MC

			NP	SP	WP	Multi-Unit
Ø 10mm	Ti					4.8
Ø 10mm	Ti		61.081*	61.082*	61.083*	



MIS® V3  
Conic MV

			NP	SP	Multi-Unit
Ø 10mm	Ti				4.8
Ø 10mm	Ti		61.084*	61.082*	



Megagen AnyRidge®  
Conic ANYR

Ø 10mm	Ti		61.057
Ø 14mm	CoCr		71.057

\*NOT FDA



Anthogyr Axiom®  
Conic Axio

Ø 10mm	Ti	61.077*
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Medentis ICX®  
CONIC IC

Ø 10mm	Ti	61.080*
Ø 14mm	Ti	62.080*
Ø 14mm	CoCr	71.080*



Dentium Superline™ & Implantium®  
Conic DENT

Ø 10mm	Ti	61.090*
Ø 14mm	Ti	62.090*
Ø 14mm	CoCr	71.090*



Bego Semados®  
Internal SEM

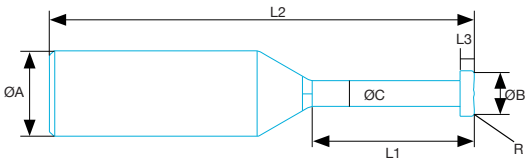
Ø 10mm	Ti	61.091*	61.092*	61.093*	61.094*
Ø 14mm	Ti				62.094*
Ø 14mm	CoCr				71.094*



Biotech Kontakt®  
Conic Bio

Ø 10mm	Ti	61.078*	NP	RP
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ANGLE MILLING TOOL



	ØA	ØB	ØC	L1	L2	L3	R
MT3D16L5	3	1,6	0,95	5	51	0,5	0,1
MT4D16L5	4	1,6	0,95	5	51	0,5	0,1
MT6D16L5	6	1,6	0,95	5	51	0,5	0,1

BLOCKS



Ti	□ 15mm	L 20mm	63.020
Ti	□ 15mm	L 40mm	63.040
CoCr	□ 15mm	L 20mm	73.020
CoCr	□ 15mm	L 40mm	73.040

\*NOT FDA



# Quick Reference Guide

## Tool Selector

Brand	Model	Tool Diameter
3M-ESPE	LAVA CVC 240	3mm
AMANN GIRRBACH	CERAMILL MOTION 2 5X, MIKRO 5X, MIKRO 4X, MIKRO IC	3mm
CHARLY DENTAL	CD04-S, CD05-S	3mm
	CD50	3mm / 4mm / 6mm
DATRON	D5	3mm / 4mm / 6mm
	D1	4mm
DENTAL CONCEPT SYSTEMS	DC5, DC1	6mm
DENTASWISS	DS2000, DS2100	3mm
DMG MORI	ULTRASONIC 10, ULTRASONIC 20	3mm / 4mm / 6mm
DT DIGITAL	FINOCAM A5, FINOCAM CA, FI-NOCAM CA+	3mm
ERNST HINRICHS	HINRIMILL 5, HINRIMILL 5.8, HINRIMILL T5	3mm
EUROMAX MONACO	OPERA EASY 5, OPERA EXPERT 5, OPERA PRO-EXPERT 5	3mm
	OPERA PREMIUM	6mm
GOLDQUADRAT	QUATTRO MILL MAXI, QUATTRO MILL COMFORT 5X	3mm
IMES-ICORE	CORITEC ONE, CORITEC 140I, CORITEC 245I, CORITEC 250I	3mm
	CORITEC 350I, CORITEC 450I, CORITEC 650I, CORITEC 750I	6mm
JENSEN	PRECISO M305-X, PRECISO M205 MILL	3mm
MANI SCHÜTZ DENTAL	TIZIAN CUT 5 DRY, TIZIAN CUT ECO PLUS, TIZIAN CUT 5	3mm
	TIZIAN CUT5.2, TIZIAN CUT5.2 PLUS	6mm
MB MASCHINEN	COBRA MILL DESK 5, COBRA MILL 5M, COBRA MILL 48	3mm
	COBRA MILL 5A1	6mm
	COBRA MILL 58	3mm / 4mm / 6mm
R+K ORGANICAL CAD/CAM	ORGANICAL DESKTOP 7C, ORGANICAL DESKTOP 6	3mm
RÖDERS	RXD4, RXD5, RXD5C	3mm / 4mm / 6mm
ROLAND	DWX50, DWX51D	4mm
SHERA	ECO-MILL DRY	3mm
STRAUMANN	CARES M-SERIES	3mm
VHF	S1, S2, K5	3mm
YENADENT	D14, D15, D6, D43, DC40	4mm, 6mm
ZIRKONZAHN	M1 WET HEAVY METAL, M1 ABUTMENT, M4 WET HEAVY METAL, M5 HEAVY METAL, M6 WET HEAVY METAL	6mm

# HOLDERS



### HLDSTD

For standard 98mm disc machines

Most industrial milling machine with a 98mm disc holder:  
Arum  
Dmg  
Datron  
Haas  
Robodril



### HLDIMES

For Imes-Icore® machines

Coritec 150i pro  
Coritec 245i touch  
Coritec 250i touch  
Coritec 350i / Coritec 250i Loader  
Coritec 450i  
Coritec 550i  
Coritec 650i / Coritec 650i Loader



### HLDVHF

For VHF®

VHF® S1  
VHF® S2  
VHF® S5



### HLDVHFR5

For VHF®

VHF® R5



### HLDYENA

For Yenadent®

D6  
D15  
D43N



### HLDVHFN4

For VHF®

VHF® N4 & VHF® N4+



### HLDVHFZ4

For VHF®

VHF® Z4



### HLD3R

For machines with support / changer 3R

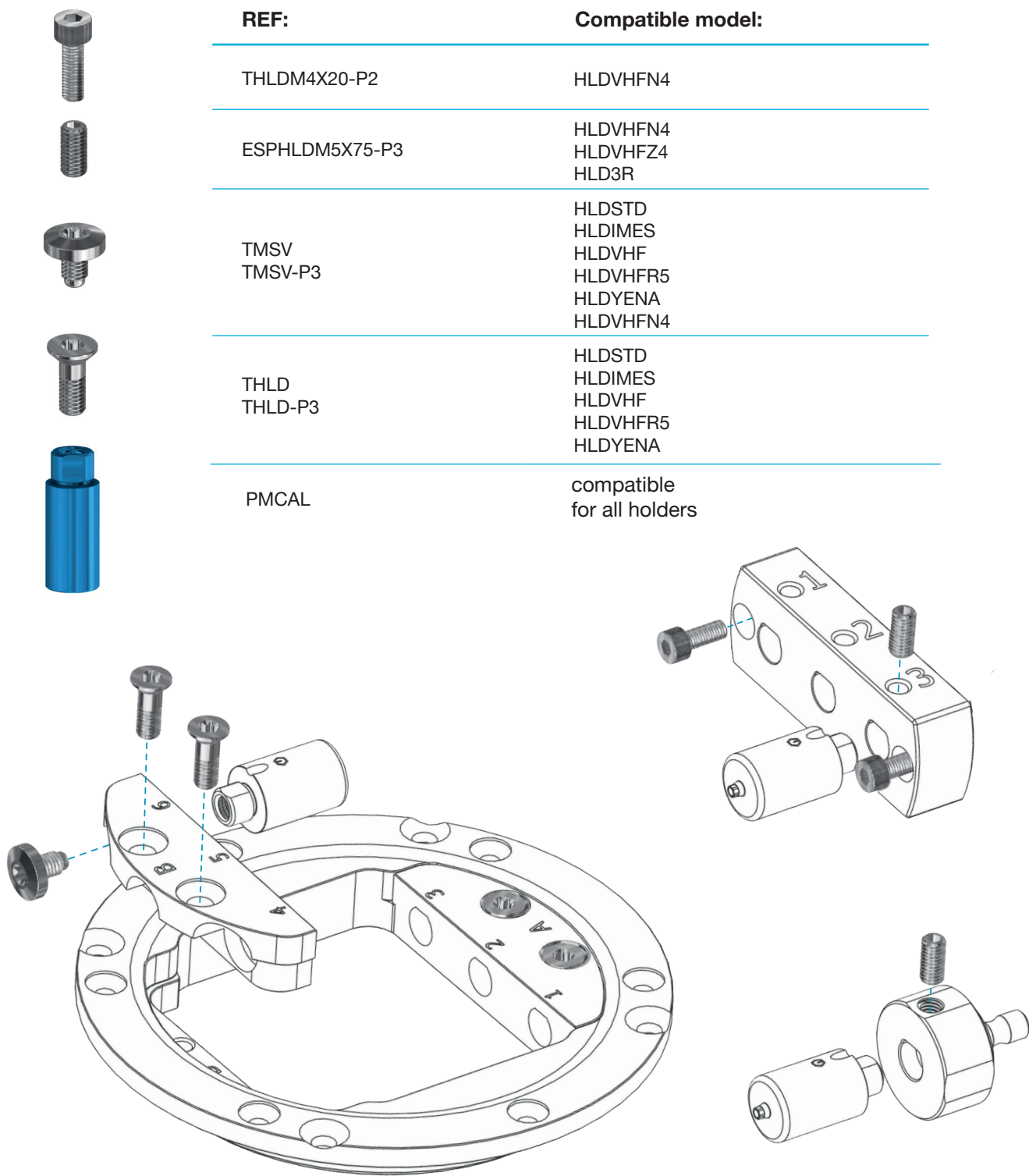
D14P



### AK-1 ROLAND

DESS premills are compatible with AK-1 Holder, developed and supplied by ROLAND.

# REPLACEMENT SCREW HOLDERS



REF:	Compatible model:
THLDM4X20-P2	HLDVHFN4
ESPHLDM5X75-P3	HLDVHFN4 HLDVHFZ4 HLD3R
TMSV TMSV-P3	HLDSTD HLDIMES HLDVHF HLDVHFR5 HLDYENA HLDVHFN4
THLD THLD-P3	HLDSTD HLDIMES HLDVHF HLDVHFR5 HLDYENA
PMCAL	compatible for all holders

All DESS products are manufactured according to ISO 9001 and ISO 13485 with CE marking for all products  
Class IIb

All DESS® ANGLEBase® screws and screwdrivers are based on the standard ISO 10664  
3i® and 3i Certain®, Miniplant®, MicroMiniplant™ and Osseotite® are registered trademarks of 3i Implant Innovations,  
USA

ASTRA TECH™, OsseoSpeed™, ANKYLOS® C/X, XiVE®, FRIADENT®, ASTRATECH implant system™ EV and  
UniAbutment®

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Multi-unit® are registered trademarks of Nobel Biocare AB,

Neodent®, Grand Morse® , Straumann® and synOcta® are registered trademarks of Straumann Holding AG,  
Switzerland

MIS® is a registered trademark of MIS Implant Technologies Ltd.

Zimmer Screw-Vent® and SwissPlus® are registered trademarks of Zimmer Dental INC, USA

Dyna® is a registered trademark of Dyna Dental Engineering BV

Locator® is a registered trademark of ZEST IP Holdings

Camlog® and Conelog® are registered trademarks of CAMLOG Biotechnologies AG

Megagen® is a registered trademark of MEGAGEN IMPLANT CO. LTD

TORX® is a trademark of ACUMENT INTELLECTUAL PROPERTIES, LLC

Bego Semados® is a registered trademark of BEGO GmbH & Co. KG

Anthogyr® is a registered trademark of Anthogyr SAS

Medentis ICX® is a registered trademark of medentis medical GmbH

Osstem®, Hiossen® is a registered trademark of OSSTEM IMPLANT CO. LTD

Dentium® is a trademark of Dentium Co. Ltd.

GOBALD® is a trademark of Global D SASU.

Biotech Kontakt® is a trademark Biotech Dental SAS.

BTI® is a trademark BTI Biotechnology Institute.

PHIBO® is a trademark PHIBO Dental Solutions S.L.

DESS products can be used only by licensed dentists, physicians and labs.

Please refer ever to the instructions of use available on the website

[www.dessdental.com](http://www.dessdental.com)

or supplied with the product.

Some products may not be available in your country. Some of the products are cleared for US and Canada.  
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