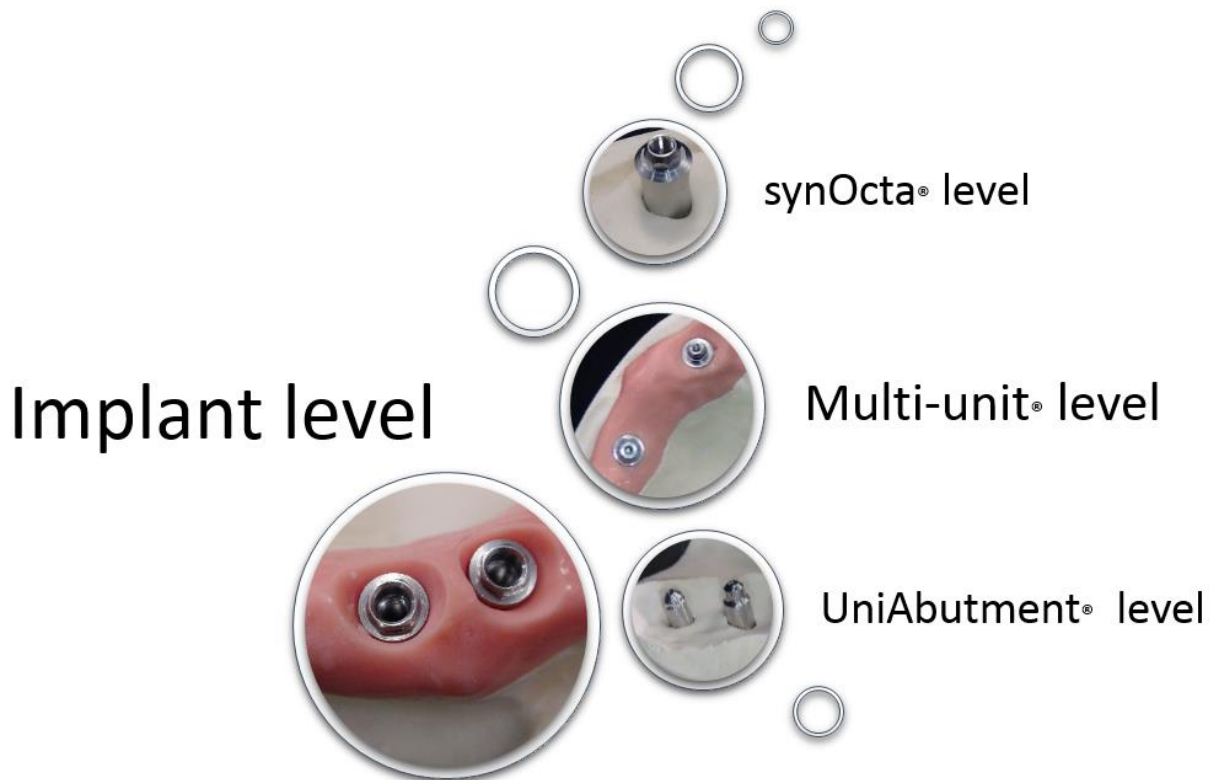


Use of DESS Abutments Library in CAD dental systems



Use of DESS Abutments Library in CAD dental systems

DESS Scan Abutments allow scans on implant level or abutment level. This depends on the type of connection and custom impression or intraoral scan.

The choice of the appropriate library connection depends also on the design of the prosthesis to be milled. DESS Library allows restorations on DESS Titanium Interface or restorations to be screwed direct on Straumann® synOcta® abutment, Nobel Biocare Multi-unit® abutment or ASTRA UniAbutment®. Please note that in case of direct milling the connection is non-engaging only.

Depending on the CAD system, the library structure and connection names differ slightly from each other.

3Shape Dental System – implant level scan



For 3Shape Dental System on this level the following categories are available:

1. DESS TITANIUM INTERFACE – for restorations connected with the implant via the Titanium Interface. The scanning needs to be performed with the Scan Body for the specific implant connection. **Note:** This category includes parts **scanned from abutment level** - Multi-unit® abutment, UniAbutment® and synOcta® abutment - with its specific Scan Abutment (see Table 1.1).
2. DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE – for restorations connected with the transepithelial abutment via the Titanium interface. The scanning needs to be performed with the Scan Body for the specific implant connection. The desired Multi-unit® abutment or UniAbutment® will be mounted virtually in the CAD Dental System. Please note that in this case the interface closing line (between the prosthesis and interface chamfer) depends on the proper kit selection (abutment height in mm), (see Table 1.2).
3. DESS MULTIUNIT & UNIABUTMENT DIRECT – for restorations connected directly with the transepithelial abutment. The scanning needs to be performed with the Scan Body for the specific implant connection. The desired Multi-unit® abutment or UniAbutment® will be mounted virtually in the CAD Dental System. Please note that in this case the closing line between the prosthesis and the transepithelial abutment depends on the proper kit selection (abutment height in mm), (see Table 1.3).

Take care to select the correct DESS Scan Abutment and the corresponding library file, as otherwise the milled prosthesis can differ from desired outcome and errors can occur, for example the level of interface settlement.

The tables on the following pages gives an overview of all DESS 3Shape Dental System library files.

Implant level scan

Abutment level scan

IMPLANT TYPE	PLATFORM	LIBRARY FILE "DESS TITANIUM INTERFACE"			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE
		CATEGORY	SYSTEM	KIT			
BRÄNEMARK SYSTEM®	NP	DESS TITANIUM INTERFACE	DESS NOB BRK INTERFACE	NOB_BRK_NP E 16.001 NOB_BRK_NP NE 15.001	For Ti Interface engaging For Ti Interface non-engaging	50.001	14.001
	RP	DESS TITANIUM INTERFACE	DESS NOB BRK INTERFACE	NOB_BRK_RP E 16.002 NOB_BRK_RP NE 15.002	For Ti Interface engaging For Ti Interface non-engaging	50.002	14.002
	WP	DESS TITANIUM INTERFACE	DESS NOB BRK INTERFACE	NOB_BRK_WP E 16.003 NOB_BRK_WP NE 15.003	For Ti Interface engaging For Ti Interface non-engaging	50.003	14.003
NOBEL REPLACE®	NP	DESS TITANIUM INTERFACE	DESS NOB RPL INTERFACE	NOB_RPL_NP E 16.004 NOB_RPL_NP NE 15.004	For Ti Interface engaging For Ti Interface non-engaging	50.004	14.004
	RP	DESS TITANIUM INTERFACE	DESS NOB RPL INTERFACE	NOB_RPL_RP E 16.005 NOB_RPL_RP NE 15.005	For Ti Interface engaging For Ti Interface non-engaging	50.005	14.005
	WP	DESS TITANIUM INTERFACE	DESS NOB RPL INTERFACE	NOB_RPL_WP E 16.006 NOB_RPL_WP NE 15.006	For Ti Interface engaging For Ti Interface non-engaging	50.006	14.006
NOBEL ACTIVE™	NP	DESS TITANIUM INTERFACE	DESS NOB ACT INTERFACE	NOB_ACT_NP E 16.041 NOB_ACT_NP NE 15.041	For Ti Interface engaging For Ti Interface non-engaging	50.041	14.041
	RP	DESS TITANIUM INTERFACE	DESS NOB BRK INTERFACE	NOB_ACT_RP E 16.042 NOB_ACT_RP NE 15.042	For Ti Interface engaging For Ti Interface non-engaging	50.042	14.042
STRAUMANN® SOFT TISSUE LEVEL	RN	DESS TITANIUM INTERFACE	DESS STR STL V INTERFACE	STR_STLV_RN E 16.009 STR_STLV_RN NE 15.046	For Ti Interface engaging For Ti Interface non-engaging	50.009	14.009
	RN on synOcta®	DESS TITANIUM INTERFACE	DESS STR SYN INTERFACE	STR_SYN_RN E 16.010 STR_SYN_RN NE 15.010	For Ti Interface engaging For Ti Interface non-engaging	50.010	14.010
	WN	DESS TITANIUM INTERFACE	DESS STR STL V INTERFACE	STR_STLV_WN E 16.045 STR_STLV_WN NE 15.045	For Ti Interface engaging For Ti Interface non-engaging	50.045	14.045
	WN on synOcta®	DESS TITANIUM INTERFACE	DESS STR SYN INTERFACE	STR_SYN_WN E 16.049 STR_SYN_WN NE 15.048	For Ti Interface engaging For Ti Interface non-engaging	50.048	14.046
STRAUMANN® BONE LEVEL	NC	DESS TITANIUM INTERFACE	DESS STR BLV INTERFACE	STR_BLV_NC E 16.043 STR_BLV_NC NE 15.043	For Ti Interface engaging For Ti Interface non-engaging	50.043	14.043
	RC	DESS TITANIUM INTERFACE	DESS STR BLV INTERFACE	STR_BLV_RC E 16.044 STR_BLV_RC NE 15.044	For Ti Interface engaging For Ti Interface non-engaging	50.044	14.044
ASTRA TECH™ OSSEOSPEED™	RP	DESS TITANIUM INTERFACE	DESS AST OSS INTERFACE	AST_OSS_Aqua E 16.024 AST_OSS_Aqua NE 15.024	For Ti Interface engaging For Ti Interface non-engaging	50.024	14.024
	WP	DESS TITANIUM INTERFACE	DESS AST OSS INTERFACE	AST_OSS_LiAc E 16.025 AST_OSS_LiAc NE 15.025	For Ti Interface engaging For Ti Interface non-engaging	50.025	14.025
	UniAbutment®20°	DESS TITANIUM INTERFACE	DESS AST OSS INTERFACE	AST_OSS_UNIABUTMENT_20 NE 15.036	For Ti Interface non-engaging	50.036	14.036
	UniAbutment®45°	DESS TITANIUM INTERFACE	DESS AST OSS INTERFACE	AST_OSS_UNIABUTMENT_45 NE 15.037	For Ti Interface non-engaging	50.037	14.037
FRIADENT® XiVE®	NP	DESS TITANIUM INTERFACE	DESS DEN XIV INTERFACE	DEN_XIV_3.4 E 16.038 DEN_XIV_3.4 NE 15.038	For Ti Interface engaging For Ti Interface non-engaging	50.038	14.038
	RP	DESS TITANIUM INTERFACE	DESS DEN XIV INTERFACE	DEN_XIV_3.8 E 16.039 DEN_XIV_3.8 NE 15.039	For Ti Interface engaging For Ti Interface non-engaging	50.039	14.039
	WP	DESS TITANIUM INTERFACE	DESS DEN XIV INTERFACE	DEN_XIV_4.5 E 16.040 DEN_XIV_4.5 NE 16.040	For Ti Interface engaging For Ti Interface non-engaging	50.040	14.040
ANKYLOS® C/X	All platforms, height GH1	DESS TITANIUM INTERFACE	DESS DEN ANK INTERFACE	DEN_ANK E 16.050 DEN_ANK NE 15.050	For Ti Interface engaging For Ti Interface non-engaging	50.049	14.048 14.050
	All platforms, height GH2	DESS TITANIUM INTERFACE	DESS DEN ANK INTERFACE	DEN_ANK E 16.250 DEN_ANK NE 15.250	For Ti Interface engaging For Ti Interface non-engaging		
ZIMMER SCREW-VENT®	NP	DESS TITANIUM INTERFACE	DESS ZIM SCV INTERFACE	ZIM_SCV_NP E 16.017 ZIM_SCV_NP NE 15.017	For Ti Interface engaging For Ti Interface non-engaging	50.017	14.017
	RP	DESS TITANIUM INTERFACE	DESS ZIM SCV INTERFACE	ZIM_SCV_RP E 16.018 ZIM_SCV_RP NE 15.018	For Ti Interface engaging For Ti Interface non-engaging	50.018	14.018
	WP	DESS TITANIUM INTERFACE	DESS ZIM SCV INTERFACE	ZIM_SCV_WP E 16.019 ZIM_SCV_WP NE 15.019	For Ti Interface engaging For Ti Interface non-engaging	50.019	14.019
MIS SEVEN®	RP	DESS TITANIUM INTERFACE	DESS MIS SEV INTERFACE	MIS_SEV_RP E 16.017 MIS_SEV_RP NE 15.017	For Ti Interface engaging For Ti Interface non-engaging	50.017	14.017
	WP	DESS TITANIUM INTERFACE	DESS MIS SEV INTERFACE	MIS_SEV_WP E 16.018 MIS_SEV_WP NE 15.018	For Ti Interface engaging For Ti Interface non-engaging	50.018	14.018
3i® OSSEOTITE®	NP	DESS TITANIUM INTERFACE	DESS 3i® OSS INTERFACE	NP E 16.011 NP NE 15.011	For Ti Interface engaging For Ti Interface non-engaging	50.011	14.011
	RP	DESS TITANIUM INTERFACE	DESS 3i® OSS INTERFACE	RP E 16.012 RP NE 15.012	For Ti Interface engaging For Ti Interface non-engaging	50.012	14.012
	WP	DESS TITANIUM INTERFACE	DESS 3i® OSS INTERFACE	WP E 16.013 WP NE 15.013	For Ti Interface engaging For Ti Interface non-engaging	50.013	14.013
3i® OSSEOTITE® CERTAIN®	NP	DESS TITANIUM INTERFACE	DESS 3i® CER INTERFACE	3i_CER_NP E 16.014 3i_CER_NP NE 15.014	For Ti Interface engaging For Ti Interface non-engaging	50.014	14.014
	RP	DESS TITANIUM INTERFACE	DESS 3i® CER INTERFACE	3i_CER_RP E 16.015 3i_CER_RP NE 15.015	For Ti Interface engaging For Ti Interface non-engaging	50.015	14.015
	WP	DESS TITANIUM INTERFACE	DESS 3i® CER INTERFACE	3i_CER_WP E 16.016 3i_CER_WP NE 15.016	For Ti Interface engaging For Ti Interface non-engaging	50.016	14.016
BIOHORIZONS®	NP	DESS TITANIUM INTERFACE	DESS BH EXT INTERFACE	BH_EXTERNAL_NP E 16.051 BH_EXTERNAL_NP NE 15.051	For Ti Interface engaging For Ti Interface non-engaging	50.020	14.020
	RP	DESS TITANIUM INTERFACE	DESS BH EXT INTERFACE	BH_EXTERNAL_RP E 16.052 BH_EXTERNAL_RP NE 15.052	For Ti Interface engaging For Ti Interface non-engaging	50.021	14.021
	WP	DESS TITANIUM INTERFACE	DESS BH EXT INTERFACE	BH_EXTERNAL_WP E 16.053 BH_EXTERNAL_WP NE 15.053	For Ti Interface engaging For Ti Interface non-engaging	50.022	14.022
MULTI-UNIT®	RP	DESS TITANIUM INTERFACE	DESS MULTI-UNIT® INTERFACE	Multi_Unit_RP NE 15.007	For Ti Interface non-engaging	50.007	14.007
	WP	DESS TITANIUM INTERFACE	DESS MULTI-UNIT® INTERFACE	Multi_Unit_WP NE 15.054	For Ti Interface non-engaging	50.047	14.047

Table 1.1 DESS TITANIUM INTERFACE

IMPLANT TYPE	IMPLANT PLATFORM / TRANSEPIHELIAL ABUTMENT PLATFORM	LIBRARY FILE "DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE"			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE
		CATEGORY	SYSTEM	KIT (Interface + virtual abutment)			
MULTI-UNIT® ON BRÄNEMARK SYSTEM®	NP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS NOB BRK MULT PLUS INTER	NP 15007 + 40001-1 (1mm)	For Ti Interface on Multi- Unit®	50.001	14.001
				NP 15007 + 40001-2 (2mm)			
				NP 15007 + 40001-3 (3mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS NOB BRK MULT PLUS INTER	RP 15007 + 40002-1 (1mm)	For Ti Interface on Multi- Unit®	50.002	14.002
				RP 15007 + 40002-2 (2mm)			
				RP 15007 + 40002-3 (3mm)			
				RP 15007 + 40002-4 (4mm)			
				RP 15007 + 40002-5 (5mm)			
	WP / WP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS NOB BRK MULT PLUS INTER	WP 15054 + 40003-1 (1mm)	For Ti Interface on Multi- Unit®	50.003	14.003
WP 15054 + 40003-2 (2mm)							
WP 15054 + 40003-3 (3mm)							
MULTI-UNIT® ON NOBEL REPLACE®	NP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS NOB RPL MULT PLUS INTER	NP 15007 + 40004-1 (1mm)	For Ti Interface on Multi- Unit®	50.004	14.004
				NP 15007 + 40004-2 (2mm)			
				NP 15007 + 40004-3 (3mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS NOB RPL MULT PLUS INTER	RP 15007 + 40005-1 (1mm)	For Ti Interface on Multi- Unit®	50.005	14.005
				RP 15007 + 40005-2 (2mm)			
				RP 15007 + 40005-3 (3mm)			
				RP 15007 + 40005-4 (4mm)			
				RP 15007 + 40005-5 (5mm)			
	WP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS NOB RPL MULT PLUS INTER	WP 15007 + 40006-1 (1mm)	For Ti Interface on Multi- Unit®	50.006	14.006
WP 15007 + 40006-2 (2mm)							
WP 15007 + 40006-3 (3mm)							
MULTI-UNIT® ON NOBEL ACTIVE™	NP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS NOB ACT MULT PLUS INTER	NP 15007 + 40007-1 (1.5mm)	For Ti Interface on Multi- Unit®	50.041	14.041
				NP 15007 + 40007-2 (2.5mm)			
				NP 15007 + 40007-3 (3.5mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS NOB ACT MULT PLUS INTER	RP 15007 + 40008-1 (1.5mm)	For Ti Interface on Multi- Unit®	50.042	14.042
				RP 15007 + 40008-2 (2.5mm)			
				RP 15007 + 40008-3 (3.5mm)			
MULTI-UNIT® ON STRAUMANN® BONE LEVEL	NC / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS STR BLV MULT PLUS INTER	NC 15007 + 40043-1 (1.5mm)	For Ti Interface on Multi- Unit®	50.043	14.043
				NC 15007 + 40043-2 (2.5mm)			
				NC 15007 + 40043-3 (3.5mm)			
	RC / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS STR BLV MULT PLUS INTER	RC 15007 + 40044-1 (1.5mm)	For Ti Interface on Multi- Unit®	50.044	14.044
				RC 15007 + 40044-2 (2.5mm)			
				RC 15007 + 40044-3 (3.5mm)			
UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™	RP / UniAbutment®20°	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS AST UNIABUT PLUS INTER	RP 20 15036 + 40013-0 (0.5mm)	For Ti Interface on UniAbutment®	50.024	14.024
				RP 20 15036 + 40013-1 (1mm)			
				RP 20 15036 + 40013-2 (2mm)			
				RP 20 15036 + 40013-4 (4mm)			
				RP 20 15036 + 40013-6 (6mm)			
	WP / UniAbutment®20°	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS AST UNIABUT PLUS INTER	WP 20 15036 + 40014-0 (0.5mm)	For Ti Interface on UniAbutment®	50.025	14.025
				WP 20 15036 + 40014-1 (1mm)			
				WP 20 15036 + 40014-2 (2mm)			
				WP 20 15036 + 40014-4 (4mm)			
				WP 20 15036 + 40014-6 (6mm)			
	RP / UniAbutment®45°	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS AST UNIABUT PLUS INTER	RP 45 15037 + 40015-0 (0.5mm)	For Ti Interface on UniAbutment®	50.024	14.024
				RP 20 15037 + 40015-1 (1mm)			
				RP 20 15037 + 40015-2 (2mm)			
				RP 20 15037 + 40015-4 (4mm)			
				RP 20 15037 + 40015-6 (6mm)			
WP / UniAbutment®45°	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS AST UNIABUT PLUS INTER	WP 45 15037 + 40016-0 (0.5mm)	For Ti Interface on UniAbutment®	50.025	14.025	
			WP 20 15037 + 40016-1 (1mm)				
			WP 20 15037 + 40016-2 (2mm)				
			WP 20 15037 + 40016-4 (4mm)				
			WP 20 15037 + 40016-6 (6mm)				
MULTI-UNIT® ON ZIMMER SCREW-VENT®	NP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS ZIM SCV MULT PLUS INTER	NP 15007 + 40019-1 (1mm)	For Ti Interface on Multi- Unit®	50.017	14.017
				NP 15007 + 40019-2 (2mm)			
				NP 15007 + 40019-3 (3mm)			
				NP 15007 + 40019-4 (4mm)			
				NP 15007 + 40019-5 (5mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS ZIM SCV MULT PLUS INTER	RP 15007 + 40020-1 (1mm)	For Ti Interface on Multi- Unit®	50.018	14.018
RP 15007 + 40020-2 (2mm)							
RP 15007 + 40020-3 (3mm)							
MULTI-UNIT® ON 3j® OSSEOTITE®	NP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS 3i® OSS MULT PLUS INTER	NP 15007 + 40009-1 (1mm)	For Ti Interface on Multi- Unit®	50.011	14.011
				NP 15007 + 40009-2 (2mm)			
				NP 15007 + 40009-3 (3mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE	DESS 3i® OSS MULT PLUS INTER	RP 15007 + 40017-1 (1mm)	For Ti Interface on Multi- Unit®	50.012	14.012
				RP 15007 + 40017-2 (2mm)			
				RP 15007 + 40017-3 (3mm)			
				RP 15007 + 40017-4 (4mm)			
				RP 15007 + 40017-5 (5mm)			

Table 1.2 DESS MULTIUNIT & UNIABUTMENT PLUS INTERFACE

IMPLANT TYPE	IMPLANT PLATFORM / TRANSEPIHELIAL ABUTMENT PLATFORM	LIBRARY FILE "DESS MULTIUNIT & UNIABUTMENT DIRECT"			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE
		CATEGORY	SYSTEM	KIT (virtual abutment)			
MULTI-UNIT® ON BRÄNEMARK SYSTEM®	NP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS NOB BRK MULTI-UNIT® DIRECT	NP 40001-1 (1mm)	Direct connection on Multi-Unit®	50.001	14.001
				NP 40001-2 (2mm)			
				NP 40001-3 (3mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS NOB BRK MULTI-UNIT® DIRECT	RP 40002-1 (1mm)	Direct connection on Multi-Unit®	50.002	14.002
				RP 40002-2 (2mm)			
				RP 40002-3 (3mm)			
				RP 40002-4 (4mm)			
				RP 40002-5 (5mm)			
	WP / WP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS NOB BRK MULTI-UNIT® DIRECT	WP 40003-1 (1mm)	Direct connection on Multi-Unit®	50.003	14.003
WP 40003-2 (2mm)							
WP 40003-3 (3mm)							
MULTI-UNIT® ON NOBEL REPLACE®	NP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS NOB RPL MULTI-UNIT® DIRECT	NP 40004-1 (1mm)	Direct connection on Multi-Unit®	50.004	14.004
				NP 40004-2 (2mm)			
				NP 40004-3 (3mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS NOB RPL MULTI-UNIT® DIRECT	RP 40005-1 (1mm)	Direct connection on Multi-Unit®	50.005	14.005
				RP 40005-2 (2mm)			
				RP 40005-3 (3mm)			
				RP 40005-4 (4mm)			
				RP 40005-5 (5mm)			
	WP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS NOB RPL MULTI-UNIT® DIRECT	WP 40006-1 (1mm)	Direct connection on Multi-Unit®	50.006	14.006
WP 40006-2 (2mm)							
WP 40006-3 (3mm)							
MULTI-UNIT® ON NOBEL ACTIVE™	NP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS NOB ACT MULTI-UNIT® DIRECT	NP 40007-1 (1.5mm)	Direct connection on Multi-Unit®	50.041	14.041
				NP 40007-2 (2.5mm)			
				NP 40007-3 (3.5mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS NOB ACT MULTI-UNIT® DIRECT	RP 40008-1 (1.5mm)	Direct connection on Multi-Unit®	50.042	14.042
				RP 40008-2 (2.5mm)			
				RP 40008-3 (3.5mm)			
MULTI-UNIT® ON STRAUMANN® BONE LEVEL	NC / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS STR BLV MULTI-UNIT® DIRECT	NC 40043-1 (1.5mm)	Direct connection on Multi-Unit®	50.043	14.043
				NC 40043-2 (2.5mm)			
				NC 40043-3 (3.5mm)			
	RC / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS STR BLV MULTI-UNIT® DIRECT	RC 40044-1 (1.5mm)	Direct connection on Multi-Unit®	50.044	14.044
				RC 40044-2 (2.5mm)			
				RC 40044-3 (3.5mm)			
UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™	RP / UniAbutment®20°	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS AST UNIABUTMENT® DIRECT	RP 20 40013-0 (0.5mm)	Direct connection on UniAbutment®	50.024	14.024
				RP 20 40013-1 (1mm)			
				RP 20 40013-2 (2mm)			
				RP 20 40013-4 (4mm)			
	WP / UniAbutment®20°	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS AST UNIABUTMENT® DIRECT	WP 20 40013-6 (6mm)	Direct connection on UniAbutment®	50.025	14.025
				WP 20 40014-0 (0.5mm)			
				WP 20 40014-1 (1mm)			
				WP 20 40014-2 (2mm)			
				WP 20 40014-4 (4mm)			
	RP / UniAbutment®45°	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS AST UNIABUTMENT® DIRECT	WP 20 40014-6 (6mm)	Direct connection on UniAbutment®	50.024	14.024
				RP 45 40015-0 (0.5mm)			
				RP 20 40015-1 (1mm)			
				RP 20 40015-2 (2mm)			
				RP 20 40015-4 (4mm)			
				RP 20 40015-6 (6mm)			
	WP / UniAbutment®45°	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS AST UNIABUTMENT® DIRECT	WP 45 40016-0 (0.5mm)	Direct connection on UniAbutment®	50.025	14.025
WP 20 40016-1 (1mm)							
WP 20 40016-2 (2mm)							
WP 20 40016-4 (4mm)							
WP 20 40016-6 (6mm)							
WP 20 40016-6 (6mm)							
MULTI-UNIT® ON ZIMMER SCREW-VENT®	NP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS ZIM SCV MULTI-UNIT® DIRECT	NP 40019-1 (1mm)	Direct connection on Multi-Unit®	50.017	14.017
				NP 40019-2 (2mm)			
				NP 40019-3 (3mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS ZIM SCV MULTI-UNIT® DIRECT	NP 40019-4 (4mm)	Direct connection on Multi-Unit®	50.018	14.018
				NP 40019-5 (5mm)			
				RP 40020-1 (1mm)			
MULTI-UNIT® ON 3i® OSSEOTITE®	NP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS 3i® OSS MULTI-UNIT® DIRECT	RP 40020-2 (2mm)	Direct connection on Multi-Unit®	50.011	14.011
				RP 40020-3 (3mm)			
				RP 40017-1 (1mm)			
	RP / RP	DESS MULTIUNIT & UNIABUTMENT DIRECT	DESS 3i® OSS MULTI-UNIT® DIRECT	RP 40017-2 (2mm)	Direct connection on Multi-Unit®	50.012	14.012
				RP 40017-3 (3mm)			
				RP 40017-4 (4mm)			
				RP 40017-5 (5mm)			

Table 1.3 DESS MULTIUNIT & UNIABUTMENT DIRECT

3Shape Dental System – abutment level scan

For those cases the following categories are available:

- DESS STR SYN DIRECT (Bars and bridges) – for multiple restorations connected directly with synOcta® abutment. The scanning needs to be performed with Scan Abutment for synOcta®: 50.010 (RN) or 50.048 (WN). **Note:** This connection is non-engaging only (See Table 2.1).
- DESS MULTIUNIT DIRECT (Multiunit Scan Abutment) – for restorations connected directly with Multi-unit® abutment. The scanning needs to be performed with the Scan Abutment for Multi-unit® system – 50.007 (RP) and 50.047 (WP). The desired Multi-unit® abutment needs to be mounted physically on the implant analogue or the model needs to be poured with Multi-unit® analogues (14.007 or 14.047), (See Table 2.2).
- DESS UNIABUTMENT DIRECT (Uniabutment Scan Abutment) – for restorations connected directly with UniAbutment®. The scanning needs to be performed with the Scan Abutment for UniAbutment® system – 50.036 (20°) or 50.037 (45°). The desired UniAbutment® needs to be mounted physically on the implant analogue or model needs to be poured with UniAbutment® analogues (14.036 or 14.037), (See Table 2.3).

IMPLANT TYPE	PLATFORM	LIBRARY FILE “DESS STR SYN DIRECT (Bars and bridges)”			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE
		CATEGORY	SYSTEM	KIT			
STRAUMANN® SOFT TISSUE LEVEL WITH synOcta® ABUTMENT	RN on synOcta®	DESS STR SYN DIRECT (Bars and bridges)	DESS STR SYN DIRECT (Bars and bridges)	STR SYN RN 51.010	Direct connection on synOcta®	50.010	14.010
	WN on synOcta®	DESS STR SYN DIRECT (Bars and bridges)	DESS STR SYN DIRECT (Bars and bridges)	STR SYN WN 51.048	Direct connection on synOcta®	50.048	14.046

Table 2.1 DESS STR SYN DIRECT (Bars and bridges)

IMPLANT TYPE	PLATFORM	LIBRARY FILE “DESS MULTIUNIT DIRECT (Multiunit Scan Abutment)”			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE
		CATEGORY	SYSTEM	KIT			
MULTI-UNIT®	RP	DESS MULTIUNIT DIRECT (Multiunit Scan Abutment)	DESS MULTI-UNIT® DIRECT (Multi-unit® Scan Abutment)	Multi-unit®	Direct connection on Multi-Unit®	50.007	14.007
	WP	DESS MULTIUNIT DIRECT (Multiunit Scan Abutment)	DESS MULTI-UNIT® DIRECT (Multi-unit® Scan Abutment)	Multi-unit® WP	Direct connection on Multi-Unit®	50.047	14.047

Table 2.2 DESS MULTIUNIT DIRECT (Multiunit Scan Abutment)

IMPLANT TYPE	PLATFORM	LIBRARY FILE “DESS UNIABUTMENT DIRECT (Uniabutment Scan Abutment)”			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE
		CATEGORY	SYSTEM	KIT			
UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™	UniAbutment®20°	DESS UNIABUTMENT DIRECT (Uniabutment Scan Abutment)	DESS AST UNIABUTMENT® DIRECT (Uniabutment® Scan Abutment)	20	Direct connection on UniAbutment®	50.036	14.036
	UniAbutment®45°	DESS UNIABUTMENT DIRECT (Uniabutment Scan Abutment)	DESS AST UNIABUTMENT® DIRECT (Uniabutment® Scan Abutment)	45	Direct connection on UniAbutment®	50.037	14.037

Table 2.3 DESS UNIABUTMENT DIRECT (Uniabutment Scan Abutment)

Exocad library for implant level scan and abutment level scan

For this CAD system the library draws distinction between the following groups:

- DESS (*Connection name*) Titanium Interface – for restorations connected with the implant via the Titanium Interface. The scanning needs to be performed with the Scan Body for the specific implant connection. **Note:** This group includes parts **scanned from abutment level** - Multi-unit® abutment, UniAbutment® and synOcta® abutment - with its specific Scan Abutment (marked almond in the table).
- DESS (*Connection name*) MULTI-UNIT® - for restorations connected directly with Multi-unit® transepithelial abutment. The scanning needs to be performed with the Scan Body for the specific implant connection. The desired Multi-unit® abutment will be mounted virtually in the CAD System. Please note that in this case the closing line between the prosthesis and the transepithelial abutment depends on the proper kit selection (abutment height in mm).
- DESS (*Connection name*) MULTI-UNIT® PLUS TITANIUM INTERFACE - for restorations connected with the Multi-unit® transepithelial abutment via the Titanium Interface. The scanning needs to be performed with the Scan Body for the specific implant connection. The desired Multi-unit® abutment will be mounted virtually in the CAD System. Please note that in this case the closing line between the prosthesis and the transepithelial abutment depends on the proper kit selection (abutment height in mm).
- DESS AST UNIABUTMENT® PLUS TITANIUM INTERFACE - for restorations connected with the UniAbutment® via Titanium Interface. The scanning needs to be performed with the Scan Body for ASTRA TECH™ implant connection. The desired UniAbutment® will be mounted virtually in the CAD System. Please note that in this case the closing line between the prosthesis and the transepithelial abutment depends on the proper kit selection (abutment height in mm).
- DESS AST UNIABUTMENT® - for restorations connected directly with the UniAbutment®. The scanning needs to be performed with the Scan Body for ASTRA TECH™ implant connection. The desired UniAbutment® will be mounted virtually in the CAD System. Please note that in this case the closing line between the prosthesis and the transepithelial abutment depends on the proper kit selection (abutment height in mm).

Take care to select the correct DESS Scan Abutment and the corresponding library file, as otherwise the milled prosthesis can differ from desired outcome and errors can occur, for example the level of interface settlement.

The table 3.1 on the following page gives an overview of all DESS Exocad library files in alphabetical order as shown in Exocad.

Implant level scan

Abutment level scan

LIBRARY FILE – ONE-CLICK REGISTRATION			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	IMPLANT TYPE
NAME	PLATFORM	TYPE				
DESS 3i® CER Titanium Interface	NP	Engaging	For Ti Interface engaging	50.014	14.014	3i® OSSEOTITE® CERTAIN®
		Non-Engaging	For Ti Interface non-engaging			
	RP	Engaging	For Ti Interface engaging	50.015	14.015	
		Non-Engaging	For Ti Interface non-engaging			
	WP	Engaging	For Ti Interface engaging	50.016	14.016	
		Non-Engaging	For Ti Interface non-engaging			
DESS 3i® OSS MULTI-UNIT®	NP	40.009/1 (1mm)	Direct connection on Multi-Unit®	50.011	14.011	MULTI-UNIT® ON 3i® OSSEOTITE®
		40.009/2 (2mm)				
		40.009/3 (3mm)				
	RP	40.017/1 (1mm)	Direct connection on Multi-Unit®	50.012	14.012	
		40.017/2 (2mm)				
		40.017/3 (3mm)				
DESS 3i® OSS MULTI-UNIT® PLUS TITANIUM INTERFACE	NP	15007 + 40.009/1 (1mm)	For Ti Interface on Multi-Unit®	50.011	14.011	MULTI-UNIT® ON 3i® OSSEOTITE®
		15007 + 40.009/2 (2mm)				
		15007 + 40.009/3 (3mm)				
	RP	15007 + 40.017/1 (1mm)	For Ti Interface on Multi-Unit®	50.012	14.012	
		15007 + 40.017/2 (2mm)				
		15007 + 40.017/3 (3mm)				
DESS 3i® OSS Titanium Interface	NP	Engaging	For Ti Interface engaging	50.011	14.011	3i® OSSEOTITE®
		Non-Engaging	For Ti Interface non-engaging			
	RP	Engaging	For Ti Interface engaging	50.012	14.012	
		Non-Engaging	For Ti Interface non-engaging			
	WP	Engaging	For Ti Interface engaging	50.013	14.013	
		Non-Engaging	For Ti Interface non-engaging			
DESS AST UNIABUTMENT® PLUS TITANIUM INTERFACE	20° RP	15036 + 40013/0 (0.5mm)	For Ti Interface on UniAbutment®	50.024	14.024	UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™
		15036 + 40013/1 (1mm)				
		15036 + 40013/2 (2mm)				
		15036 + 40013/4 (4mm)				
		15036 + 40013/6 (6mm)				
		15037 + 40015/0 (0.5mm)				
	45° RP	15037 + 40015/1 (1mm)	For Ti Interface on UniAbutment®	50.025	14.025	
		15037 + 40015/2 (2mm)				
		15037 + 40015/4 (4mm)				
	20° WP	15037 + 40015/6 (6mm)	For Ti Interface on UniAbutment®	50.025	14.025	
		15036 + 40014/0 (0.5mm)				
		15036 + 40014/1 (1mm)				
		15036 + 40014/2 (2mm)				
		15036 + 40014/4 (4mm)				
		15036 + 40014/6 (6mm)				
	45° WP	15037 + 40016/0 (0.5mm)	For Ti Interface on UniAbutment®	50.025	14.025	
		15037 + 40016/1 (1mm)				
		15037 + 40016/2 (2mm)				
15037 + 40016/4 (4mm)						
15037 + 40016/6 (6mm)						
15037 + 40016/6 (6mm)						
DESS AST OSS Titanium Interface	RP	Engaging	For Ti Interface engaging	50.024	14.024	ASTRA TECH™ OSSEOSPEED™
		Non-Engaging	For Ti Interface non-engaging			
	WP	Engaging	For Ti Interface engaging	50.025	14.025	
		Non-Engaging	For Ti Interface non-engaging			
DESS AST UNIABUTMENT®	20° RP	40013/0 (0.5mm)	Direct connection on UniAbutment®	50.024	14.024	UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™
		40013/1 (1mm)				
		40013/2 (2mm)				
		40013/4 (4mm)				
		40013/6 (6mm)				
		40015/0 (0.5mm)				
	45° RP	40015/1 (1mm)	Direct connection on UniAbutment®	50.025	14.025	
		40015/2 (2mm)				
		40015/4 (4mm)				
	20° WP	40015/6 (6mm)	Direct connection on UniAbutment®	50.025	14.025	
		40014/0 (0.5mm)				
		40014/1 (1mm)				
40014/2 (2mm)						
40014/4 (4mm)						
40014/6 (6mm)						
45° WP	40016/0 (0.5mm)	Direct connection on UniAbutment®	50.025	14.025		
	40016/1 (1mm)					
	40016/2 (2mm)					
	40016/4 (4mm)					
	40016/6 (6mm)					
	40016/6 (6mm)					
DESS BH EXTERNAL Titanium Interface	NP	Engaging	For Ti Interface engaging	50.020	14.020	BIOHORIZONS®
		Non-Engaging	For Ti Interface non-engaging			
	RP	Engaging	For Ti Interface engaging	50.021	14.021	
		Non-Engaging	For Ti Interface non-engaging			
	WP	Engaging	For Ti Interface engaging	50.022	14.022	
		Non-Engaging	For Ti Interface non-engaging			
DESS DEN ANK Titanium Interface	GH1	Engaging	For Ti Interface engaging	50.049	14.048	ANKYLOS® C/X
		Non-Engaging	For Ti Interface non-engaging			
	GH2	Engaging	For Ti Interface engaging	50.049	14.050	
		Non-Engaging	For Ti Interface non-engaging			
DESS DEN XIV Titanium Interface	NP	Engaging	For Ti Interface engaging	50.038	14.038	FRIADENT® XiVE®
		Non-Engaging	For Ti Interface non-engaging			
	RP	Engaging	For Ti Interface engaging	50.039	14.039	
		Non-Engaging	For Ti Interface non-engaging			
	WP	Engaging	For Ti Interface engaging	50.040	14.040	
		Non-Engaging	For Ti Interface non-engaging			
DESS MIS SEV Titanium Interface	RP	Engaging	For Ti Interface engaging	50.017	14.017	MIS SEVEN®
		Non-Engaging	For Ti Interface non-engaging			
	WP	Engaging	For Ti Interface engaging	50.018	14.018	
		Non-Engaging	For Ti Interface non-engaging			

LIBRARY FILE – ONE-CLICK REGISTRATION			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	IMPLANT TYPE	
NAME	PLATFORM	TYPE					
DESS MULTI-UNIT® DIRECT (Multi-unit® Scan Abutment)	MULTI-UNIT®		Direct connection on Multi-Unit® RP	50.007	14.007	MULTI-UNIT®	
	MULTI-UNIT® WP		Direct connection on Multi-Unit® WP	50.047	14.047		
DESS MULTI-UNIT® Titanium Interface	RP	Non- Engaging	For Ti Interface on Multi-Unit®	50.007	14.007	MULTI-UNIT®	
	WP	Non- Engaging	For Ti Interface on Multi-Unit®	50.047	14.047		
DESS NOB ACT MULTI-UNIT®	NP	40007/1 (1.5mm)	Direct connection on Multi-Unit®	50.041	14.041	MULTI-UNIT® ON NOBEL ACTIVE™	
		40007/2 (2.5mm)					
		40007/3 (3.5mm)					
	RP	40008/1 (1.5mm)	Direct connection on Multi-Unit®	50.042	14.042		
		40008/2 (2.5mm)					
		40008/3 (3.5mm)					
DESS NOB ACT MULTI-UNIT® PLUS TITANIUM INTERFACE	NP	15007 + 40007/1 (1.5mm)	For Ti Interface on Multi-Unit®	50.041	14.041	MULTI-UNIT® ON NOBEL ACTIVE™	
		15007 + 40007/2 (2.5mm)					
		15007 + 40007/3 (3.5mm)					
RP	15007 + 40008/1 (1.5mm)	For Ti Interface on Multi-Unit®	50.042	14.042			
	15007 + 40008/2 (2.5mm)						
	15007 + 40008/3 (3.5mm)						
DESS NOB ACT Titanium Interface	NP	Engaging	For Ti Interface engaging	50.041	14.041	NOBEL ACTIVE™	
		Non- Engaging	For Ti Interface non-engaging				
	RP	Engaging	For Ti Interface engaging	50.042	14.042		
DESS NOB BRK MULTI-UNIT®	NP	40001/1 (1mm)	Direct connection on Multi-Unit®	50.001	14.001		MULTI-UNIT® ON BRÅNEMARK SYSTEM®
		40001/2 (2mm)					
		40001/3 (3mm)					
	RP	40002/1 (1mm)	Direct connection on Multi-Unit®	50.002	14.002		
		40002/2 (2mm)					
		40002/3 (3mm)					
		40002/4 (4mm)					
		40002/5 (5mm)					
	WP	40003/1 (1mm)	Direct connection on Multi-Unit®	50.003	14.003		
		40003/2 (2mm)					
DESS NOB BRK MULTI-UNIT® PLUS TITANIUM INTERFACE	NP	15007 + 40001/1 (1mm)	For Ti Interface on Multi-Unit®	50.001	14.001	MULTI-UNIT® ON BRÅNEMARK SYSTEM®	
		15007 + 40001/2 (2mm)					
		15007 + 40001/3 (3mm)					
	RP	15007 + 40002/1 (1mm)	For Ti Interface on Multi-Unit®	50.002	14.002		
		15007 + 40002/2 (2mm)					
		15007 + 40002/3 (3mm)					
		15007 + 40002/4 (4mm)					
		15007 + 40002/5 (5mm)					
	WP	15007 + 40003/1 (1mm)	For Ti Interface on Multi-Unit®	50.003	14.003		
		15007 + 40003/2 (2mm)					
DESS NOB BRK Titanium Interface	NP	Engaging	For Ti Interface engaging	50.001	14.001	BRÅNEMARK SYSTEM®	
		Non- Engaging	For Ti Interface non-engaging				
	RP	Engaging	For Ti Interface engaging	50.002	14.002		
WP	Non- Engaging	Engaging	For Ti Interface engaging	50.003	14.003		
		Non- Engaging	For Ti Interface non-engaging				
DESS NOB RPL MULTI-UNIT®	NP	40004/1 (1mm)	Direct connection on Multi-Unit®	50.004	14.004		MULTI-UNIT® ON NOBEL REPLACE®
		40004/2 (2mm)					
		40004/3 (3mm)					
	RP	40005/1 (1mm)	Direct connection on Multi-Unit®	50.005	14.005		
		40005/2 (2mm)					
		40005/3 (3mm)					
		40005/4 (4mm)					
		40005/5 (5mm)					
	WP	40006/1 (1mm)	Direct connection on Multi-Unit®	50.006	14.006		
DESS NOB RPL MULTI-UNIT® PLUS TITANIUM INTERFACE	NP	15007 + 40004/1 (1mm)	For Ti Interface on Multi-Unit®	50.004	14.004	MULTI-UNIT® ON NOBEL REPLACE®	
		15007 + 40004/2 (2mm)					
		15007 + 40004/3 (3mm)					
	RP	15007 + 40005/1 (1mm)	For Ti Interface on Multi-Unit®	50.005	14.005		
		15007 + 40005/2 (2mm)					
		15007 + 40005/3 (3mm)					
		15007 + 40005/4 (4mm)					
		15007 + 40005/5 (5mm)					
	WP	15007 + 40006/1 (1mm)	For Ti Interface on Multi-Unit®	50.006	14.006		
		15007 + 40006/2 (2mm)					
DESS NOB RPL Titanium Interface	NP	Engaging	For Ti Interface engaging	50.004	14.004	NOBEL REPLACE®	
		Non- Engaging	For Ti Interface non-engaging				
	RP	Engaging	For Ti Interface engaging	50.005	14.005		
WP	Non- Engaging	Engaging	For Ti Interface engaging	50.006	14.006		
		Non- Engaging	For Ti Interface non-engaging				
DESS STR BLV MULTI-UNIT®	NC	40043/1 (1.5mm)	Direct connection on Multi-Unit®	50.043	14.043		MULTI-UNIT® ON STRAUMANN® BONE LEVEL
		40043/2 (2.5mm)					
		40043/3 (3.5mm)					
	RC	40044/1 (1.5mm)	Direct connection on Multi-Unit®	50.044	14.044		
		40044/2 (2.5mm)					
		40044/3 (3.5mm)					
40044/4 (4.5mm)							

LIBRARY FILE – ONE-CLICK REGISTRATION			CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	IMPLANT TYPE
NAME	PLATFORM	TYPE				
DESS STR BLV MULTI-UNIT® PLUS TITANIUM INTERFACE	NC	15007 + 40043/1 (1.5mm)	For Ti Interface on Multi-Unit®	50.043	14.043	MULTI-UNIT® ON STRAUMANN® BONE LEVEL
		15007 + 40043/2 (2.5mm)				
		15007 + 40043/3 (3.5mm)				
	RC	15007 + 40044/1 (1.5mm)	For Ti Interface on Multi-Unit®	50.044	14.044	
		15007 + 40044/2 (2.5mm)				
		15007 + 40044/3 (3.5mm)				
		15007 + 40044/4 (4.5mm)				
DESS STR BLV Titanium Interface	NC	Engaging	For Ti Interface engaging	50.043	14.043	STRAUMANN® BONE LEVEL
		Non-Engaging	For Ti Interface non-engaging			
	RC	Engaging	For Ti Interface engaging	50.044	14.044	
		Non-Engaging	For Ti Interface non-engaging			
DESS STR STL Titanium Interface	RN	Engaging	For Ti Interface engaging	50.009	14.009	STRAUMANN® SOFT TISSUE LEVEL
		Non-Engaging	For Ti Interface non-engaging			
	WN	Engaging	For Ti Interface engaging	50.045	14.045	
		Non-Engaging	For Ti Interface non-engaging			
DESS STR SYN (Bars and Bridges)	RN	Non-Engaging	Direct connection on synOcta®	50.010	14.010	STRAUMANN® SOFT TISSUE LEVEL WITH synOcta® ABUTMENT
	WN	Non-Engaging	Direct connection on synOcta®	50.048	14.046	
DESS STR SYN	RN	Non-Engaging	For Ti Interface non-engaging	50.010	14.010	STRAUMANN® SOFT TISSUE LEVEL WITH synOcta® ABUTMENT
		Engaging	For Ti Interface engaging			
	WN	Non-Engaging	For Ti Interface non-engaging	50.048	14.046	
		Engaging	For Ti Interface engaging			
DESS UNIABUTMENT® (UniAbutment® Scan Abutment)		20°	Direct connection on UniAbutment® 20°	50.024	14.024	UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™
		45°	Direct connection on UniAbutment® 45°	50.025	14.025	
DESS ZIM SCV MULTI-UNIT®	NP	40019/1 (1mm)	Direct connection on Multi-Unit®	50.017	14.017	MULTI-UNIT® ON ZIMMER SCREW-VENT®
		40019/2 (2mm)				
		40019/3 (3mm)				
		40019/4 (4mm)				
		40019/5 (5mm)				
	RP	40020/1 (1mm)	Direct connection on Multi-Unit®	50.018	14.018	
		40020/2 (2mm)				
		40020/3 (3mm)				
DESS ZIM SCV MULTI-UNIT® PLUS TITANIUM INTERFACE	NP	15007 + 40019/1 (1mm)	For Ti Interface on Multi-Unit®	50.017	14.017	MULTI-UNIT® ON ZIMMER SCREW-VENT®
		15007 + 40019/2 (2mm)				
		15007 + 40019/3 (3mm)				
		15007 + 40019/4 (4mm)				
		15007 + 40019/5 (5mm)				
	RP	15007 + 40020/1 (1mm)	For Ti Interface on Multi-Unit®	50.018	14.018	
		15007 + 40020/2 (2mm)				
		15007 + 40020/3 (3mm)				
DESS ZIM SCV Titanium Interface	NP	Engaging	For Ti Interface engaging	50.017	14.017	ZIMMER SCREW-VENT®
		Non-Engaging	For Ti Interface non-engaging			
	RP	Engaging	For Ti Interface engaging	50.018	14.018	
		Non-Engaging	For Ti Interface non-engaging			
	WP	Engaging	For Ti Interface engaging	50.019	14.019	
		Non-Engaging	For Ti Interface non-engaging			

Table 3.1 DESS EXOCAD LIBRARY

For DWOS CAD system the library draws distinction between the following groups:

- DESS MULTI-UNIT® AND UNIABUTMENT® - for restorations connected directly with the transepithelial abutment. The scanning needs to be performed with the Scan Body for every specific implant connection. The desired Multi-unit® abutment or UniAbutment® will be mounted virtually in the CAD System. Please note that in this case the closing line between the prosthesis and the transepithelial abutment depends on the proper kit selection (abutment height in mm), (see Table 4.1).
- DESS MULTI-UNIT® AND UNIABUTMENT® PLUS INTERFACE - for restorations connected with the transepithelial abutment via the Titanium Interface. The scanning needs to be performed with the Scan Body for the specific implant connection. The desired Multi-unit® abutment or UniAbutment® will be mounted virtually in the CAD System. Please note that in this case the closing line between the prosthesis and the transepithelial abutment depends on the proper kit selection (abutment height in mm), (see Table 4.2).
- DESS SYNOCTA® DIRECT (Bars and Bridges) - for multiple restorations connected directly with synOcta® abutment. The scanning needs to be performed with Scan Abutment for synOcta®: 50.010 (RN) or 50.048 (WN). **Note:** This connection is non-engaging only (See Table 4.3).
- DESS TITANIUM INTERFACE - for restorations connected with the implant via the Titanium Interface. The scanning needs to be performed with the Scan Body for the specific implant connection. **Note:** This category includes parts **scanned from abutment level** - Multi-unit® abutment, UniAbutment® and synOcta® abutment - with its specific Scan Abutment (see Table 4.4).
- DESS UNIABUTMENT® DIRECT (UniAbutment® Scan Abutment) - for restorations connected directly with UniAbutment®. The scanning needs to be performed with the Scan Abutment for UniAbutment® system – 50.036 (20°) or 50.037 (45°). The desired UniAbutment® needs to be mounted physically on the implant analogue or model needs to be poured with UniAbutment® analogues (14.036 or 14.037), (See Table 4.5).
- DESS MULTI-UNIT® DIRECT (Multi-unit® Scan Abutment) - for restorations connected directly with Multi-unit® abutment. The scanning needs to be performed with the Scan Abutment for Multi-unit® system – 50.007 (RP) and 50.047 (WP). The desired Multi-unit® abutment needs to be mounted physically on the implant analogue or the model needs to be poured with Multi-unit® analogues (14.007 or 14.047), (See Table 4.6).

Take care to select the correct DESS Scan Abutment and the corresponding library file, as otherwise the milled prosthesis can differ from desired outcome and errors can occur, for example the level of interface settlement.

The tables on the following pages gives an overview of all DESS Dental Wings library files in order as shown in DWOS.

Implant level scan

Abutment level scan

LIBRARY FILE FROM THE GROUP "DESS MULTI-UNIT® AND UNIABUTMENT®"	CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	PLATFORM	IMPLANT TYPE					
3i® OSS NP 40009/1 (1mm)	Direct connection on Multi-Unit®	50.011	14.011	NP	MULTI-UNIT® ON 3i® OSSEOTITE®					
3i® OSS NP 40009/2 (2mm)										
3i® OSS NP 40009/3 (3mm)										
3i® OSS RP 40017/1 (1mm)	Direct connection on Multi-Unit®	50.012	14.012	RP						
3i® OSS RP 40017/2 (2mm)										
3i® OSS RP 40017/3 (3mm)										
3i® OSS RP 40017/4 (4mm)										
3i® OSS RP 40017/5 (5mm)										
AST AQUA® RP 20° 40013/0 (0.5mm)	Direct connection on UniAbutment®	50.024	14.024	20° RP	UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™					
AST AQUA® RP 20° 40013/1 (1mm)										
AST AQUA® RP 20° 40013/2 (2mm)										
AST AQUA® RP 20° 40013/4 (4mm)										
AST AQUA® RP 20° 40013/6 (6mm)										
AST AQUA® RP 45° 40015/0 (0.5mm)				Direct connection on UniAbutment®		50.025	14.025	45° RP		
AST AQUA® RP 45° 40015/1 (1mm)										
AST AQUA® RP 45° 40015/2 (2mm)										
AST AQUA® RP 45° 40015/4 (4mm)										
AST AQUA® RP 45° 40015/6 (6mm)										
AST LILAC® WP 20° 40014/0 (0.5mm)	Direct connection on UniAbutment®	50.025	14.025					20° WP		
AST LILAC® WP 20° 40014/1 (1mm)										
AST LILAC® WP 20° 40014/2 (2mm)										
AST LILAC® WP 20° 40014/4 (4mm)										
AST LILAC® WP 20° 40014/6 (6mm)										
AST LILAC® WP 45° 40016/0 (0.5mm)				Direct connection on UniAbutment®	50.025	14.025	45° WP			
AST LILAC® WP 45° 40016/1 (1mm)										
AST LILAC® WP 45° 40016/2 (2mm)										
AST LILAC® WP 45° 40016/4 (4mm)										
AST LILAC® WP 45° 40016/6 (6mm)										
NOB ACT NP 40007/1 (1.5mm)	Direct connection on Multi-Unit®	50.041	14.041				NP	MULTI-UNIT® ON NOBEL ACTIVE™		
NOB ACT NP 40007/2 (2.5mm)										
NOB ACT NP 40007/3 (3.5mm)										
NOB ACT RP 40008/1 (1.5mm)	Direct connection on Multi-Unit®	50.042	14.042	RP						
NOB ACT RP 40008/2 (2.5mm)										
NOB ACT RP 40008/3 (3.5mm)										
NOB ACT RP 40008/4 (4.5mm)										
NOB BRK NP 40001/1 (1mm)					Direct connection on Multi-Unit®	50.001	14.001	NP	MULTI-UNIT® ON BRÄNEMARK SYSTEM®	
NOB BRK NP 40001/2 (2mm)										
NOB BRK NP 40001/3 (3mm)										
NOB BRK RP 40002/1 (1mm)	Direct connection on Multi-Unit®	50.002	14.002	RP						
NOB BRK RP 40002/2 (2mm)										
NOB BRK RP 40002/3 (3mm)										
NOB BRK RP 40002/4 (4mm)										
NOB BRK RP 40002/5 (5mm)										
NOB BRK WP 40003/1 (1mm)				Direct connection on Multi-Unit®	50.003	14.003	WP			
NOB BRK WP 40003/2 (2mm)										
NOB BRK WP 40003/3 (3mm)										
NOB RPL NP 40004/1 (1mm)	Direct connection on Multi-Unit®	50.004	14.004	NP	MULTI-UNIT® ON NOBEL REPLACE®					
NOB RPL NP 40004/2 (2mm)										
NOB RPL NP 40004/3 (3mm)										
NOB RPL RP 40005/1 (1mm)	Direct connection on Multi-Unit®	50.005	14.005	RP						
NOB RPL RP 40005/2 (2mm)										
NOB RPL RP 40005/3 (3mm)										
NOB RPL RP 40005/4 (4mm)										
NOB RPL RP 40005/5 (5mm)										
NOB RPL WP 40006/1 (1mm)				Direct connection on Multi-Unit®		50.006	14.006	WP		
NOB RPL WP 40006/2 (2mm)										
NOB RPL WP 40006/3 (3mm)										
ZIM SCV NP 40019/1 (1mm)	Direct connection on Multi-Unit®	50.017	14.017	NP	MULTI-UNIT® ON ZIMMER SCREW-VENT®					
ZIM SCV NP 40019/2 (2mm)										
ZIM SCV NP 40019/3 (3mm)										
ZIM SCV NP 40019/4 (4mm)										
ZIM SCV NP 40019/5 (5mm)										
ZIM SCV RP 40020/1 (1mm)	Direct connection on Multi-Unit®	50.018	14.018	RP						
ZIM SCV RP 40020/2 (2mm)										
ZIM SCV RP 40020/3 (3mm)										
STR BLV 40043/1 (1.5mm)						Direct connection on Multi-Unit®	50.043	14.043	NC	MULTI-UNIT® ON STRAUMANN® BONE LEVEL
STR BLV 40043/2 (2.5mm)										
STR BLV 40043/3 (3.5mm)										
STR BLV 40044/1 (1.5mm)	Direct connection on Multi-Unit®	50.044	14.044	RC						
STR BLV 40044/2 (2.5mm)										
STR BLV 40044/3 (3.5mm)										
STR BLV 40044/4 (4.5mm)										

Table 4.1 DESS MULTI-UNIT® AND UNIABUTMENT®

LIBRARY FILE FROM THE GROUP "DESS MULTI-UNIT® AND UNIABUTMENT® PLUS INTERFACE"	CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	PLATFORM	IMPLANT TYPE
3i® OSS NP 15007 + 40009/1 (1mm)	For TI Interface on Multi-Unit®	50.011	14.011	NP	MULTI-UNIT® ON 3i® OSSEOTITE®
3i® OSS NP 15007 + 40009/2 (2mm)					
3i® OSS NP 15007 + 40009/3 (3mm)	For TI Interface on Multi-Unit®	50.012	14.012	RP	
3i® OSS RP 15007 + 40017/1 (1mm)					
3i® OSS RP 15007 + 40017/2 (2mm)					
3i® OSS RP 15007 + 40017/3 (3mm)					
3i® OSS RP 15007 + 40017/4 (4mm)					
3i® OSS RP 15007 + 40017/5 (5mm)					
AST AQUA® RP 20° 15036 + 40013/0 (0.5mm)	For TI Interface on UniAbutment®	50.024	14.024	20° RP	UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™
AST AQUA® RP 20° 15036 + 40013/1 (1mm)					
AST AQUA® RP 20° 15036 + 40013/2 (2mm)	For TI Interface on UniAbutment®	50.024	14.024	45° RP	
AST AQUA® RP 20° 15036 + 40013/4 (4mm)					
AST AQUA® RP 20° 15036 + 40013/6 (6mm)					
AST AQUA® RP 45° 15037 + 40015/0 (0.5mm)					
AST AQUA® RP 45° 15037 + 40015/1 (1mm)					
AST AQUA® RP 45° 15037 + 40015/2 (2mm)					
AST AQUA® RP 45° 15037 + 40015/4 (4mm)	For TI Interface on UniAbutment®	50.025	14.025	20° WP	
AST AQUA® RP 45° 15037 + 40015/6 (6mm)					
AST LILAC® WP 20° 15036 + 40014/0 (0.5mm)					
AST LILAC® WP 20° 15036 + 40014/1 (1mm)					
AST LILAC® WP 20° 15036 + 40014/2 (2mm)	For TI Interface on UniAbutment®	50.025	14.025	45° WP	
AST LILAC® WP 20° 15036 + 40014/4 (4mm)					
AST LILAC® WP 20° 15036 + 40014/6 (6mm)					
AST LILAC® WP 45° 15037 + 40016/0 (0.5mm)					
AST LILAC® WP 45° 15037 + 40016/1 (1mm)					
AST LILAC® WP 45° 15037 + 40016/2 (2mm)					
AST LILAC® WP 45° 15037 + 40016/4 (4mm)					
AST LILAC® WP 45° 15037 + 40016/6 (6mm)					
NOB ACT NP 15007 + 40007/1 (1.5mm)	For TI Interface on Multi-Unit®	50.041	14.041	NP	MULTI-UNIT® ON NOBEL ACTIVE™
NOB ACT NP 15007 + 40007/2 (2.5mm)					
NOB ACT NP 15007 + 40007/3 (3.5mm)	For TI Interface on Multi-Unit®	50.042	14.042	RP	
NOB ACT RP 15007 + 40008/1 (1.5mm)					
NOB ACT RP 15007 + 40008/2 (2.5mm)					
NOB ACT RP 15007 + 40008/3 (3.5mm)					
NOB ACT RP 15007 + 40008/4 (4.5mm)					
NOB BRK NP 15007 + 40001/1 (1mm)	For TI Interface on Multi-Unit®	50.001	14.001	NP	MULTI-UNIT® ON BRÄNEMARK SYSTEM®
NOB BRK NP 15007 + 40001/2 (2mm)					
NOB BRK NP 15007 + 40001/3 (3mm)	For TI Interface on Multi-Unit®	50.002	14.002	RP	
NOB BRK RP 15007 + 40002/1 (1mm)					
NOB BRK RP 15007 + 40002/2 (2mm)					
NOB BRK RP 15007 + 40002/3 (3mm)					
NOB BRK RP 15007 + 40002/4 (4mm)					
NOB BRK RP 15007 + 40002/5 (5mm)	For TI Interface on Multi-Unit®	50.003	14.003	WP	
NOB BRK WP 15054 + 40003/1 (1mm)					
NOB BRK WP 15054 + 40003/2 (2mm)					
NOB BRK WP 15054 + 40003/3 (3mm)					
NOB RPL NP 15007 + 40004/1 (1mm)	For TI Interface on Multi-Unit®	50.004	14.004	NP	MULTI-UNIT® ON NOBEL REPLACE®
NOB RPL NP 15007 + 40004/2 (2mm)					
NOB RPL NP 15007 + 40004/3 (3mm)	For TI Interface on Multi-Unit®	50.005	14.005	RP	
NOB RPL RP 15007 + 40005/1 (1mm)					
NOB RPL RP 15007 + 40005/2 (2mm)					
NOB RPL RP 15007 + 40005/3 (3mm)					
NOB RPL RP 15007 + 40005/4 (4mm)					
NOB RPL RP 15007 + 40005/5 (5mm)	For TI Interface on Multi-Unit®	50.006	14.006	WP	
NOB RPL WP 15007 + 40006/1 (1mm)					
NOB RPL WP 15007 + 40006/2 (2mm)					
NOB RPL WP 15007 + 40006/3 (3mm)					
ZIM SCV NP 15007 + 40019/1 (1mm)	For TI Interface on Multi-Unit®	50.017	14.017	NP	MULTI-UNIT® ON ZIMMER SCREW-VENT®
ZIM SCV NP 15007 + 40019/2 (2mm)					
ZIM SCV NP 15007 + 40019/3 (3mm)	For TI Interface on Multi-Unit®	50.018	14.018	RP	
ZIM SCV NP 15007 + 40019/4 (4mm)					
ZIM SCV NP 15007 + 40019/5 (5mm)					
ZIM SCV RP 15007 + 40020/1 (1mm)					
ZIM SCV RP 15007 + 40020/2 (2mm)					
ZIM SCV RP 15007 + 40020/3 (3mm)					
STR BLV 15007 + 40043/1 (1.5mm)	For TI Interface on Multi-Unit®	50.043	14.043	NC	MULTI-UNIT® ON STRAUMANN® BONE LEVEL
STR BLV 15007 + 40043/2 (2.5mm)					
STR BLV 15007 + 40043/3 (3.5mm)	For TI Interface on Multi-Unit®	50.044	14.044	RC	
STR BLV 15007 + 40044/1 (1.5mm)					
STR BLV 15007 + 40044/2 (2.5mm)					
STR BLV 15007 + 40044/3 (3.5mm)					
STR BLV 15007 + 40044/4 (4.5mm)					

Table 4.2 DESS MULTI-UNIT® AND UNIABUTMENT® PLUS INTERFACE

LIBRARY FILE FROM THE GROUP "DESS TITANIUM INTERFACE"	CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	PLATFORM	IMPLANT TYPE
3i® CER NP E 16.014	For Ti Interface engaging	50.014	14.014	NP	3i® OSSEOTITE® CERTAIN®
3i® CER NP NE 15.014	For Ti Interface non-engaging				
3i® CER RP E 16.015	For Ti Interface engaging	50.015	14.015	RP	
3i® CER RP NE 15.015	For Ti Interface non-engaging				
3i® CER WP E 16.016	For Ti Interface engaging	50.016	14.016	WP	
3i® CER WP NE 15.016	For Ti Interface non-engaging				
3i® OSS NP E 16.011	For Ti Interface engaging	50.011	14.011	NP	3i® OSSEOTITE®
3i® OSS NP NE 15.011	For Ti Interface non-engaging				
3i® OSS NP E 16.012	For Ti Interface engaging	50.012	14.012	RP	
3i® OSS NP NE 15.012	For Ti Interface non-engaging				
3i® OSS NP E 16.013	For Ti Interface engaging	50.013	14.013	WP	
3i® OSS NP NE 15.013	For Ti Interface non-engaging				
AST OSS AQUA® E 16.024	For Ti Interface engaging	50.024	14.024	RP	ASTRA TECH™ OSSEOSPEED™
AST OSS AQUA® NE 15.024	For Ti Interface non-engaging				
AST OSS LILAC® E 16.025	For Ti Interface engaging	50.025	14.025	WP	
AST OSS LILAC® NE 15.025	For Ti Interface non-engaging				
AST UNIABUTMENT® 20° NE 15.036	For Ti interface non-engaging	50.036	14.036	20°	
AST UNIABUTMENT® 45° NE 15.037	For Ti interface non-engaging	50.037	14.037	45°	
BH EXTERNAL NP E 16.051	For Ti Interface engaging	50.020	14.020	NP	BIOHORIZONS®
BH EXTERNAL NP NE 15.051	For Ti Interface non-engaging				
BH EXTERNAL RP E 16.052	For Ti Interface engaging	50.021	14.021	RP	
BH EXTERNAL RP NE 15.052	For Ti Interface non-engaging				
BH EXTERNAL WP E 15.053	For Ti Interface engaging	50.022	14.022	WP	
BH EXTERNAL WP NE 16.053	For Ti Interface non-engaging				
DEN ANK E 16.050	For Ti Interface engaging	50.049	14.048	GH1	ANKYLOS® C/X
DEN ANK NE 15.050	For Ti Interface non-engaging				
DEN ANK E 16.250	For Ti Interface engaging		14.050	GH2	
DEN ANK NE 15.250	For Ti Interface non-engaging				
DEN XIV 3.4 E 16.038	For Ti Interface engaging	50.038	14.038	NP	FRIADENT® XIVE®
DEN XIV 3.4 NE 15.038	For Ti Interface non-engaging				
DEN XIV 3.8 E 16.039	For Ti Interface engaging	50.039	14.039	RP	
DEN XIV 3.8 NE 15.039	For Ti Interface non-engaging				
DEN XIV 4.5 E 16.040	For Ti Interface engaging	50.040	14.040	WP	
DEN XIV 4.5 NE 15.040	For Ti Interface non-engaging				
MIS SEV RP E 16.017	For Ti Interface engaging	50.017	14.017	RP	MIS SEVEN®
MIS SEV RP NE 15.017	For Ti Interface non-engaging				
MIS SEV WP E 16.018	For Ti Interface engaging	50.018	14.018	WP	
MIS SEV WP NE 15.018	For Ti Interface non-engaging				
MULTI-UNIT® 15.007	For Ti Interface non-engaging	50.007	14.007	RP	MULTI-UNIT®
MULTI-UNIT® WP 15.054	For Ti Interface non-engaging	50.047	14.047	WP	
NOB ACT NP E 16.041	For Ti Interface engaging	50.041	14.041	NP	NOBEL ACTIVE™
NOB ACT NP NE 15.041	For Ti Interface non-engaging				
NOB ACT RP E 16.042	For Ti Interface engaging	50.042	14.042	RP	
NOB ACT RP NE 15.042	For Ti Interface non-engaging				
NOB BRK NP E 16.001	For Ti Interface engaging	50.001	14.001	NP	BRÅNEMARK SYSTEM®
NOB BRK NP NE 15.001	For Ti Interface non-engaging				
NOB BRK RP E 16.002	For Ti Interface engaging	50.002	14.002	RP	
NOB BRK RP NE 15.002	For Ti Interface non-engaging				
NOB BRK WP E 16.003	For Ti Interface engaging	50.003	14.003	WP	
NOB BRK WP NE 15.003	For Ti Interface non-engaging				
NOB RPL NP E 16.004	For Ti Interface engaging	50.004	14.004	NP	NOBEL REPLACE®
NOB RPL NP NE 15.004	For Ti Interface non-engaging				
NOB RPL RP E 16.005	For Ti Interface engaging	50.005	14.005	RP	
NOB RPL RP NE 15.005	For Ti Interface non-engaging				
NOB RPL WP E 16.006	For Ti Interface engaging	50.006	14.006	WP	
NOB RPL WP NE 15.006	For Ti Interface non-engaging				
STR BLV NC E 16.043	For Ti Interface engaging	50.043	14.043	NC	STRAUMANN® BONE LEVEL
STR BLV NC NE 15.043	For Ti Interface non-engaging				
STR BLV RC E 16.044	For Ti Interface engaging	50.044	14.044	RC	
STR BLV RC NE 15.044	For Ti Interface non-engaging				
STR STLV RN E 16.009	For Ti Interface engaging	50.009	14.009	RN	STRAUMANN® SOFT TISSUE LEVEL
STR STLV RN NE 15.046	For Ti Interface non-engaging				
STR STLV WN E 16.045	For Ti Interface engaging	50.045	14.045	WN	
STR STLV WN NE 15.045	For Ti Interface non-engaging				
STR SYN RN E 16.010	For Ti Interface engaging	50.010	14.010	RN on synOcta®	
STR SYN RN NE 15.010	For Ti Interface non-engaging				
STR SYN WN E 16.048	For Ti Interface engaging	50.048	14.046	WN on synOcta®	
STR SYN WN NE 15.048	For Ti Interface non-engaging				
ZIM SCV NP E 16.017	For Ti Interface engaging	50.017	14.017	NP	ZIMMER SCREW-VENT®
ZIM SCV NP NE 15.017	For Ti Interface non-engaging				
ZIM SCV RP E 16.018	For Ti Interface engaging	50.018	14.018	RP	
ZIM SCV RP NE 15.018	For Ti Interface non-engaging				
ZIM SCV WP E 16.019	For Ti Interface engaging	50.019	14.019	WP	
ZIM SCV WP NE 15.019	For Ti Interface non-engaging				

Table 4.4 DESS TITANIUM INTERFACE

LIBRARY FILE FROM THE GROUP "DESS SYNOCTA® DIRECT (Bars and Bridges)"	CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	PLATFORM	IMPLANT TYPE
DESS STR SYN RN	Direct connection on synOcta®	50.010	14.010	RN on synOcta®	STRAUMANN® SOFT TISSUE LEVEL WITH synOcta® ABUTMENT
DESS STR SYN WN	Direct connection on synOcta®	50.048	14.046	WN on synOcta®	

Table 4.3 DESS SYNOCTA® DIRECT

LIBRARY FILE FROM THE GROUP "DESS UNIABUTMENT® DIRECT (UniAbutment® Scan Abutment)"	CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	PLATFORM	IMPLANT TYPE
UNIABUTMENT® 20°	Direct connection on UniAbutment®	50.036	14.036	UniAbutment®20°	UNIABUTMENT® ON ASTRA TECH™ OSSEOSPEED™
UNIABUTMENT® 45°	Direct connection on UniAbutment®	50.037	14.037	UniAbutment®45°	

Table 4.5 DESS UNIABUTMENT® DIRECT (UniAbutment® Scan Abutment)

LIBRARY FILE FROM THE GROUP "DESS MULTI-UNIT® DIRECT (Multi-unit® Scan Abutment)"	CONNECTION TO BE MILLED	SCAN ABUTMENT	ANALOGUE	PLATFORM	IMPLANT TYPE
MULTI-UNIT®	Direct connection on Multi-unit®	50.007	14.007	RP	MULTI-UNIT®
MULTI-UNIT® WP	Direct connection on Multi-unit®	50.047	14.047	WP	

Table 4.6 DESS MULTI-UNIT® DIRECT (Multi-unit® Scan Abutment)

These instructions replace all previous editions. For any detailed information about DESS® products please contact your local distributor. The photographs of the products are for information purposes only. The type, reference and connection of each element should be checked.

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