

IVOCLAR DIGITAL SOFTWARE PARAMETER CHART_EXOCAD

- Important information:**
- Observe the Instructions for Use of the materials.
 - The given dimensions for internal crown surfaces serve as guidelines and may be customized according to individual wishes.
 - Ordering at Service+: If the external dimensions of the crown surfaces / core build-up fall below the specified parameter, the warranty is excluded and extra approval is required.

IPS e.max® CAD (crown/bridge)

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
		Connector settings							
Minimum connector area / 2 crowns	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
		Milling parameters							
Anticipate milling		Yes							
Diameter		1.31 mm							

IPS e.max® CAD MO (coping)

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	0.80 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	0.80 mm	0.20 mm	65°	0.10 mm	–
		Milling parameters							
Anticipate milling		Yes							
Diameter		1.31 mm							

IPS e.max® CAD (inlay/onlay)

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	premolar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
		Milling parameters							
Anticipate milling		Yes							
Diameter		1.21 mm							

IPS e.max® CAD (veneer)

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	0.40 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.00 mm	0.20 mm	65°	0.10 mm	–
		Milling parameters							
Anticipate milling		Yes							
Diameter		1.31 mm							

IPS e.max CAD (hybrid abutment crown)

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	–	–	–	1.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	–	–	–	1.50 mm	0.20 mm	65°	0.10 mm	–
	molar	–	–	–	1.50 mm	0.20 mm	65°	0.10 mm	–
Milling parameters									
Anticipate milling		–							
Diameter		–							

IPS e.max CAD (hybrid abutment)

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	–	–	–	0.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	–	–	–	0.50 mm	0.20 mm	65°	0.10 mm	–
	molar	–	–	–	0.50 mm	0.20 mm	65°	0.10 mm	–
Milling parameters									
Anticipate milling		–							
Diameter		–							

IPS e.max ZirCAD MO/LT

Software description		Cement spaces			External surfaces						
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness			Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Number of connected elements											
					1	< 3	> 4				
Single crown	anterior	0.06 mm	0.02 mm	1.00 mm	0.40 mm			0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.00 mm	0.60 mm			0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.00 mm	0.60 mm			0.20 mm	65°	0.10 mm	–
Connector settings											
Minimum connector area / 2 crowns	anterior	0.06 mm	0.02 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	7 mm ²
	posterior	0.06 mm	0.02 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.02 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	7 mm ²
	posterior	0.06 mm	0.02 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 2 pontics	anterior	0.06 mm	0.02 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.00 mm	0.70 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm ²
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.02 mm	1.00 mm	0.70 mm	0.70 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.02 mm	1.00 mm	0.70 mm	0.70 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm ²
Milling parameters											
Anticipate milling		Yes					Minimum wall thickness hybrid abutment/hybrid abutment crown				0.70 mm
Diameter		1.2 mm					Maximum implant angle				30°

IPS e.max ZirCAD MT / MT Multi

Software description		Cement spaces			External surfaces						
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness			Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Number of connected elements											
					1	< 3	> 4				
Single crown	anterior	0.06 mm	0.01 mm	1.00 mm	0.80 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	–
Connector settings											
Minimum connector area / 2 crowns	anterior	0.06 mm	0.02 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.02 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.02 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.02 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	16 mm ²
Milling parameters											
Anticipate milling		Yes									
Diameter		1.2 mm									

Colado CAD CoCr4

Software description		Cement spaces			External surfaces				
		Gap thickness of cement PrograMill (Service+)	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
single crown	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	premolar	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	molar	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	primary tele	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	6 mm ²
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 1 pontic	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	6 mm ²
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 2 pontics	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	6 mm ²
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / cantilever pontic	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	6 mm ²
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Milling parameters									
Anticipate milling	Yes			Minimum wall thickness abutment crown and bar abutment tooth					0.50 mm
Diameter	1.2 mm			Maximum implant angle					30°

Colado CAD Ti2 / Colado CAD Ti5

Software description		Cement spaces			External surfaces				
		Gap thickness of cement PrograMill (Service+)	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	–
	premolar	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	–
	molar	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	–
	primary tele	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	6 mm ²
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 1 pontic	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	6 mm ²
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 2 pontics	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	6 mm ²
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / cantilever pontic	anterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	6 mm ²
	posterior	0.04 mm (0.06 mm)	0.01 mm	1.00 mm	0.50 mm	0.10 mm	65°	0.10 mm	9 mm ²
Milling parameters									
Anticipate milling	Yes			Minimum wall thickness abutment/abutment crown and bar abutment tooth					0.50 mm
Diameter	1.2 mm			Maximum implant angle					30°

Telio CAD

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	0.60 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.60 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	molar	0.60 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.60 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
Minimum connector area / 2 pontics	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm ²
Milling parameters									
Anticipate milling	Yes								
Diameter	1.2 mm								

ProArt CAD Wax yellow

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 2 pontics	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm ²
Milling parameters									
Anticipate milling		Yes							
Diameter		1.2 mm							

ProArt CAD Wax yellow (for Digital Press Design – Press Multi)

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / 1 pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / 2 pontics	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm ²
Milling parameters									
Anticipate milling		Yes							
Diameter		1.2 mm							

ProArt CAD Wax blue

Software description		Cement spaces			External surfaces				
		Gap thickness of cement	Add. distance x/y	Beginning of cement	Minimal thickness	Horizontal crown margin	Angle	Angled crown margin	Cross section of connector
Single crown	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	premolar	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	molar	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
	primary tele	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	–
Connector settings									
Minimum connector area / 2 crowns	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 1 pontic	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / 2 pontics	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Minimum connector area / cantilever pontic	anterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm ²
Milling parameters									
Anticipate milling		Yes							
Diameter		1.2 mm							