

# IVOCLAR DIGITAL SOFTWARE PARAMETER CHART DENTAL WINGS

- Informations importantes :**
- Respectez le mode d'emploi des matériaux.
  - Les dimensions données pour les intrados des couronnes servent de lignes directrices et peuvent être personnalisées.
  - Commander à Service+ : Si les dimensions extérieures des surfaces de la couronne/reconstitution de moignon sont inférieures au paramètre spécifié, la garantie est exclue et une approbation supplémentaire est requise.



## IPS e.max® CAD (crown/bridge)

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm <sup>2</sup>
<b>Milling parameters</b>									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.655 mm							

## IPS e.max® CAD MO (coping)

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
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	–
<b>Milling parameters</b>									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.655 mm							

## IPS e.max® CAD (inlay/onlay)

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
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	–
<b>Milling parameters</b>									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.605 mm							

## IPS e.max® CAD (veneer)

Software description		Cement spaces			External surfaces				
		Extra vertical gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
		Extra horizontal gap							
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	–
<b>Milling parameters</b>									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.655 mm							

## IPS e.max CAD (hybrid abutment crown)

Software description		Cement spaces			External surfaces				
		Extra vertical gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
		Extra horizontal gap							
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	–
<b>Milling parameters</b>									
Drill compensation		–							
Inner/outer compensation tool radius		–							

## IPS e.max CAD (hybrid abutment)

Software description		Cement spaces			External surfaces				
		Extra vertical gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
		Extra horizontal gap							
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	–
<b>Milling parameters</b>									
Drill compensation		–							
Inner/outer compensation tool radius		–							

## IPS e.max ZirCAD MO/LT

Software description		Cement spaces			External surfaces							
		Extra vertical gap	Cement gap	Collar line position	Minimum thickness			Margin thickness	Emergence angle	Margin thickness	Connector thickness	
		Extra horizontal gap			1	< 3	> 4					
Single crown	anterior	0.06 mm	0.01 mm	1.00 mm	0.40 mm			0.20 mm	65°	0.10 mm	–	
	premolar	0.06 mm	0.01 mm	1.00 mm	0.60 mm			0.20 mm	65°	0.10 mm	–	
	molar	0.06 mm	0.01 mm	1.00 mm	0.60 mm			0.20 mm	65°	0.10 mm	–	
<b>Connector settings</b>												
Minimum connector area / 2 crowns	anterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	7 mm <sup>2</sup>	
	posterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm <sup>2</sup>	
Minimum connector area / 1 pontic	anterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	7 mm <sup>2</sup>	
	posterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm <sup>2</sup>	
Minimum connector area / 2 pontics	anterior	0.06 mm	0.01 mm	1.00 mm	0.60 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	9 mm <sup>2</sup>	
	posterior	0.06 mm	0.01 mm	1.00 mm	0.70 mm	0.60 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>	
Minimum connector area / cantilever pontic	anterior	0.06 mm	0.01 mm	1.00 mm	0.70 mm	0.70 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>	
	posterior	0.06 mm	0.01 mm	1.00 mm	0.70 mm	0.70 mm	0.70 mm	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>	
<b>Milling parameters</b>												
Drill compensation		Yes								Minimum wall thickness hybrid abutment/ hybrid abutment crown		0.70 mm
Inner/outer compensation tool radius		0.600 mm								Maximum implant angle		30°

# IPS e.max ZirCAD MT / MT Multi

Software description		Cement spaces			External surfaces							
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness			Margin thickness	Emergence angle	Margin thickness	Connector thickness	
					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	–	
<b>Connector settings</b>												
Minimum connector area / 2 crowns	anterior	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>	
	posterior	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	16 mm <sup>2</sup>	
Minimum connector area / 1 pontic	anterior	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>	
	posterior	0.06 mm	0.01 mm	1.00 mm	1.00 mm	1.00 mm	–	0.20 mm	65°	0.10 mm	16 mm <sup>2</sup>	
<b>Milling parameters</b>												
Drill compensation	Yes			Minimum wall thickness hybrid abutment/ hybrid abutment crown							0.70 mm	
Inner/outer compensation tool radius	0.600 mm			Maximum implant angle							30°	

# Colado CAD CoCr4

Software description		Cement spaces			External surfaces						
		Extra vertical gap Extra horizontal gap PrograMill (Service+)	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness		
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	–		
<b>Connector settings</b>											
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 <sup>2</sup>		
	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 <sup>2</sup>		
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 <sup>2</sup>		
	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 <sup>2</sup>		
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 <sup>2</sup>		
	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 <sup>2</sup>		
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 <sup>2</sup>		
	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 <sup>2</sup>		
<b>Milling parameters</b>											
Drill compensation	Yes			Minimum wall thickness abutment crown and bar abutment tooth							0.50 mm
Inner/outer compensation tool radius	0.600 mm			Maximum implant angle							30°

# Colado CAD Ti2 / Colado CAD Ti5

Software description		Cement spaces			External surfaces						
		Extra vertical gap Extra horizontal gap PrograMill (Service+)	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness		
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	–		
<b>Connector settings</b>											
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 <sup>2</sup>		
	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 <sup>2</sup>		
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 <sup>2</sup>		
	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 <sup>2</sup>		
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 <sup>2</sup>		
	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 <sup>2</sup>		
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 <sup>2</sup>		
	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 <sup>2</sup>		
<b>Milling parameters</b>											
Drill compensation	Yes			Minimum wall thickness abutment/abutment crown and bar abutment tooth							0.50 mm
Inner/outer compensation tool radius	0.600 mm			Maximum implant angle							30°

# Telio CAD

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
Single crown	anterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	premolar	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	molar	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
	primary tele	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	–
<b>Connector settings</b>									
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 <sup>2</sup>
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.00 mm	1.00 mm	1.50 mm	0.20 mm	65°	0.10 mm	12 mm <sup>2</sup>
<b>Milling parameters</b>									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.600 mm							

# ProArt CAD Wax yellow

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
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	–
<b>Connector settings</b>									
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.20 mm	0.20 mm	65°	0.10 mm	9 mm <sup>2</sup>
<b>Milling parameters</b>									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.600 mm							

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

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
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	–
<b>connector settings</b>									
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.06 mm	0.02 mm	1.20 mm	1.50 mm	0.20 mm	65°	0.10 mm	16 mm <sup>2</sup>
<b>Milling parameters</b>									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.600 mm							

# ProArt CAD Wax blue

Software description		Cement spaces			External surfaces				
		Extra vertical gap Extra horizontal gap	Cement gap	Collar line position	Minimum thickness	Margin thickness	Emergence angle	Margin thickness	Connector thickness
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	–
<b>Connector settings</b>									
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 <sup>2</sup>
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm <sup>2</sup>
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 <sup>2</sup>
	posterior	0.04 mm	0.01 mm	1.00 mm	0.40 mm	0.10 mm	65°	0.10 mm	9 mm <sup>2</sup>
<b>Milling parameters</b>									
Drill compensation		Yes							
Inner/outer compensation tool radius		0.600 mm							