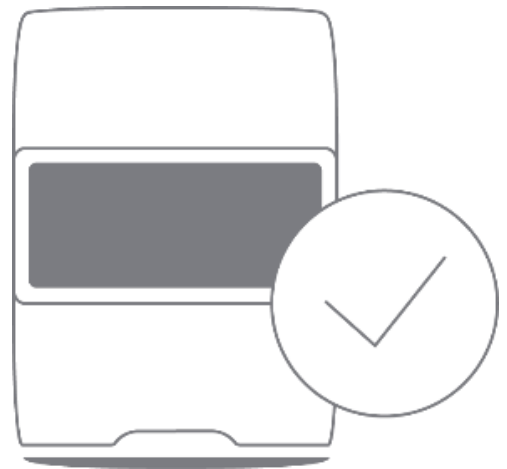# Trusted Connection
Milling machines

validated for 3Shape TRIOS Design Studio

July 2018 edition

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About 3Shape Trusted Connection program

3Shape's Trusted Connection program for TRIOS Design Studio offer a fully integrated workflow from scanning, designing, and milling with seamless integration of 3rd party CAM.

Milling workflows and final restorations have been thoroughly tested and validated by the 3Shape Trusted Connection development team. Every indication in every material is milled several times to ensure the optimum settings for all mills in the Trusted Connection program. The 3Shape Trusted Connection development team mills more than 100 restorations for every mill in the program.

This document comprises all available and coming mills in the Trusted Connection program and provides an overview of available indications and materials for validated mills. Mills not included in the Trusted Connection program are still able to produce restorations designed with TRIOS Design Studio via STL CAD export.

Current Trusted Connection Milling Machines

These are the milling machines with Trusted Connection integration to TRIOS Design Studio.
Mills listed here are released from mill manufacturer.

VHF
Z4

DGShape
DWX-4W

Lyra
Lyra Mill

Trusted Connection

VHF
N4

Roland
DWX-4

Glidewell
TS150

Imes-icore
140i

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Coming Trusted Connection Milling Machines

New milling machines with trusted connection verification currently under testing for TRIOS Design Studio. Mills listed here may not yet be shipping from mill manufacturer.

| Ivoclar Digital PrograMill One | Straumann C series | Amann Girrbach PL900S | Imes-icore CORITEC one |

Other Milling Machines

It is possible to export STL files from TRIOS Design Studio to mills that can receive STL files, e.g. the Planmeca Planmill. Please note that these mills do not offer the integrated CAM workflow and also that 3Shape do not test indications and materials with mills not in the Trusted Connection program.

Planmeca Planmill

Other STL mills

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Mill Features - Overview

Below provides a high-level overview of Trusted Connection mills features. For latest and more detailed information, please refer to the individual mill manufacturers.

	VHF	DGSHAPE BY ROLAND	DGSHAPE BY ROLAND	VHF	LYRA	GLIDEWELL	IMES-ICORE
	Z4	DWX-4W	DWX-4	N4	Lyramill	TS150	140i
Wet mill	√	√		√	√	√	√
Dry mill			√				√
Number of Axes	4	4	4	4	4	4	**4**
Built-in compressor	√	No	No	No	√	No	No
User Interface	Touchscreen	Separate pc/tablet	Separate pc/tablet	Separate pc	Soft key display	Separate pc	Separate pc / built-in pc
3rd party CAM software license required	No	Yes	Yes	No	No	No	No
Other	Tool-free material mounting (1-click mounting)						

This table only shows a comparison of basic features – please refer to mill manufacturer and resellers for more information. Subject to change.

All have 3rd party CAM Software that runs in the background of TRIOS Design Studio and some mills require a separate license for the 3rd party CAM Software (in addition to license for TRIOS and the mill). Please check with your reseller for more information.

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Indications supported by TRIOS Design Studio

TRIOS Design Studio supports below indications, with more being added. All indications are tested as part of the Trusted Connection program. The mills may be able to do other indications or materials than what is currently supported by TRIOS Design Studio. Please check the overviews in this document, and with your reseller for details.

Crown	√
Bridge	√
Inlay/Onlay	√
Veneer	√
Screw retained crown	Coming

Materials supported by TRIOS Design Studio

Below is an overview of which materials have been tested for the individual mills. The mills may be enabled for other materials than what is currently supported by TRIOS Design Studio. Please check the overview below, and with your reseller for details.

		VHF	DGSHAPE BY ROLAND	DGSHAPE BY ROLAND	VHF	LYRA	GLIDEWELL	IMES-ICORE
		Z4	DWX-4W	DWX-4	N4	Lyramill	TS150	140i
ivoclar vivadent	e.max CAD	√	√		√	√		√
	Empress CAD	√	√		√	√		√
	Empress CAD Multi		√		√	√		√
	Telio CAD	√		√	√	√		√
	IPS e.max ZirCAD LT							
VITA	VITABLOC S Mark II	√	√		√	√		√
	ENAMIC	√	√	√	√	√	√	√
	ENAMIC Multi	√	√	√	√	√		√
	SUPRINITY	√	√		√	√		√
	CAD-Temp			√	√	√		√
3M ESPE / DENTSPLY	LAVA Ultimate	√	√	√	√	√	√	√
	CELTRA Duo	√	√		√	√		√
GLIDEWELL LABORATORIES	Obsidian				√		√	
	BruxZir NOW						√	
GC	Cerasmart	√	√	√	√	√		√

√ = validated by 3Shape Trusted Connection team
This mill/material combination applies from TRIOS Design Studio version 18.1 (with CAM version 2.14)

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