

exocam powered by ModuleWorks

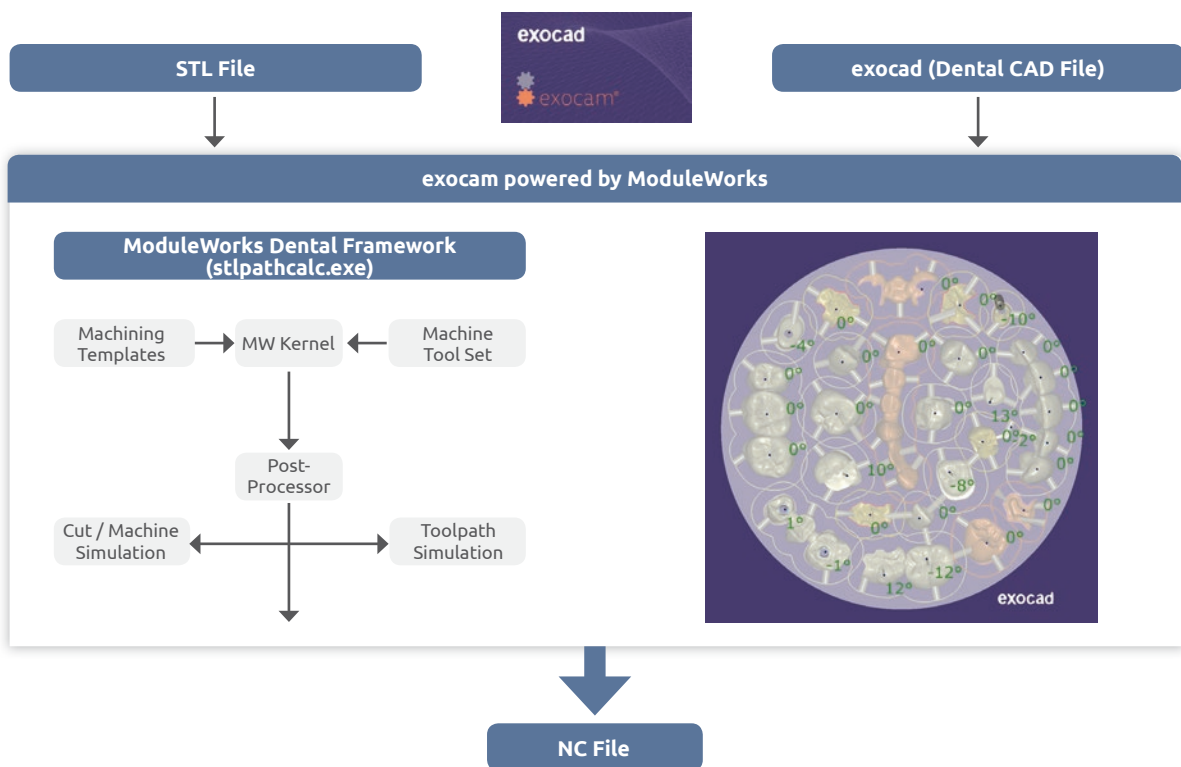
"exocam powered by ModuleWorks" is exocad nesting module powered by ModuleWorks Dental Framework (DF). DF is a Dental CAM-Engine which performs toolpath calculation and outputs the corresponding NC file.

DF is utilized with open Machining Templates in form of xml scripts, and a complete toolset library to manufacture a wide spectrum of dental indications. The integrated kernel which is used for toolpath calculations, provides high performance 3- and 5-Axis CAM features which enhance machining strategies in dental milling and Grinding applications. DF can be featured with optional Machine, and Material Removal Simulations.

The easy to use exocad-exocam environment with open interface for loading CAD files designed in exocad (*.dentalCAD) or other CAD software (*.stl), high performance integrated CAM-Engine with verified machining templates, all deliver a complete dental CAM product that boosts efficiency and productivity in dental labs and milling centers.

Targeted markets:

- Dental CNC machine resellers
- Dental CNC machine manufacturers (OEM)
- Chair-side



Roland

CNC Machines
(Post-Processor)



imes-icore

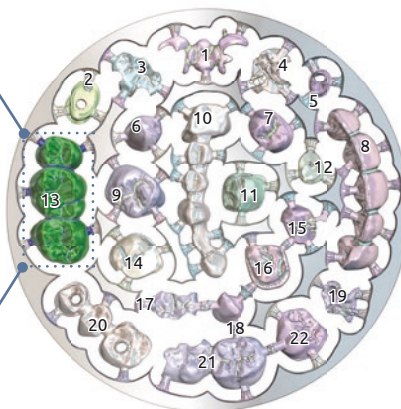
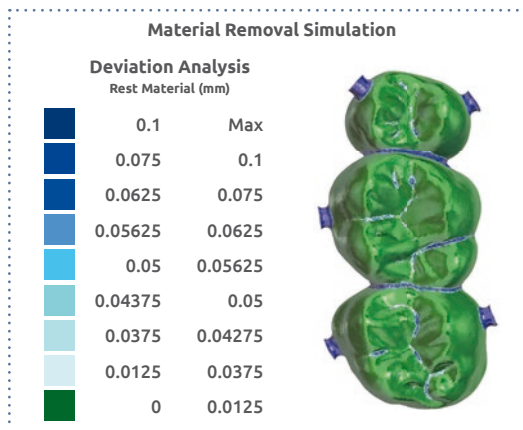
Indication Spectrum

DENTAL INDICATIONS

- Available
- Coming Soon
- Not Applicable

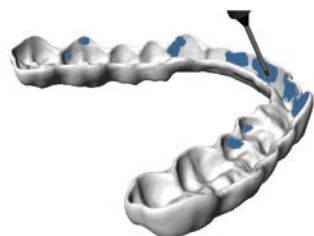
	Coping	Crown	Inlay	Onlay	Abutment	Veneer	Telescope	Bridge	Splint	Model	Denture	Implant-Bridge	Partial-Denture	Surgical Guide	Bar	Pre-mill	Implant based Abutments	
Milling (Zirconia, Plastics and Metals)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Grinding (Glass Ceramics)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Calculation Time, Material Removal Simulation

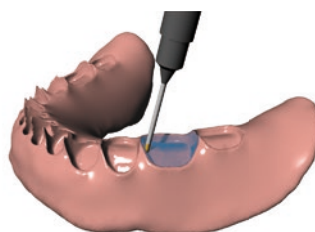


No.	Indication Type	Calculation Time
1	Bridge	00:42
2	Abutment	00:27
3	Inlay	00:16
4	Inlay	00:16
5	Abutment	00:21
6	Coping	00:21
7	Coping	00:25
8	5-Unit Bridge	02:03
9	Crown	00:29
10	6-Unit Bridge	04:19
11	Coping	00:24
12	Telescope	00:24
13	3-Unit Bridge	01:04
14	Telescope	00:38
15	Crown	00:21
16	Telescope	00:39
17	Inlay	00:14
18	Coping	00:18
19	Inlay	00:24
20	3-Unit Abutment Bridge	01:02
21	2-Unit Bridge	01:00
22	Inlay	00:28
Total Calculation Time		16:35 (min:sec)

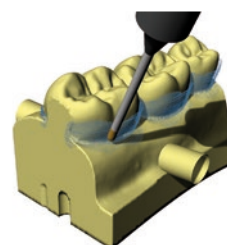
Milling



Automatic 3+2 Undercuts Machining

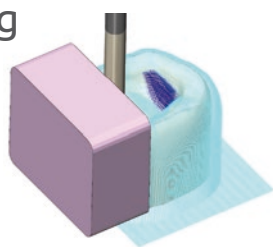


3 to 5-Axis Conversion with Project To Undercuts

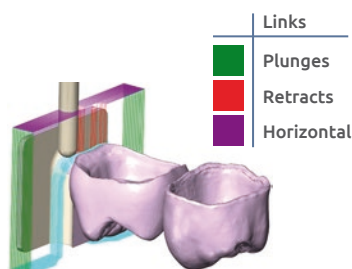


Automatic 5-Axis Undercuts Machining

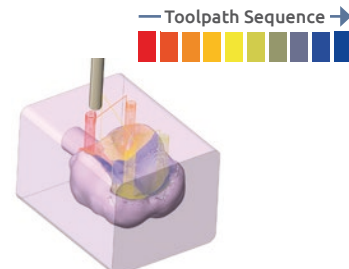
Grinding



Multiple Passes (■) on Full Width Cuts (■)



Toolpath (Up-Milling)



Helical Toolpath into Multiple Deep Cavities

ModuleWorks

Innovating for You

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