

inLab CAM 15 – FEATURES



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The Dental Company

sirona.

inLab CAM 15.0



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SYSTEM REQUIREMENTS

- inLab 4 PC HW v1.0.1 or higher
- Recommended monitor resolution 1980 x 1080

NEW LICENSE CONCEPT

- The inLab CAM license is required for operating the inLab CAM software and the processing machines controlled with it.

SUPPORTED MACHINES

- inLab MC X5
- inLab MC XL

USER INTERFACE

- Intuitive graphical order management with a phase menu (collect, arrange, and produce) as well as step menu.
- Intuitive graphical machine configuration for inLab MC X5 and inLab MC XL.
- Intuitive graphical tool management

MATERIAL MANAGEMENT

- Set-up of blanks with individual blank ID
- Remaining block management of processed blanks
- Overview by means of a colored material class index (yellow = zirconium oxide, blue = composite, red = PMMA, white = grinding materials, grey = sintering metal)
- Comprehensive range of sorting functions (blank ID, material class, material, manufacturer, machining process, size, preparation date) with free text search
- Entering LOT numbers
- Entering shrinkage/expansion factors separated according to X/Y and Z directions possible
- Blank preview with status display
- Blank legend

ORDER MANAGEMENT

- Simultaneous management and preparation of several jobs from one software instance for several inLab processing machines
- Automatic synchronization with inLab CAD software for importing newly created restoration data to inLab CAM
- Supported data formats for importing restoration elements (*.cam, *.stl, *.sci, *.constructioninfo, *.3ox)
- Display of required blank height for the selected order
- Extensive range of sorting functions for imported elements (dentist, patient, technician, restoration type, tooth number, machine type, restoration height, optimized height [only with inLab MC X5], material, material class, import date) with free text search
- Filter function for selection of the imported elements (last 24 hours, last day, last two weeks, last eight weeks)
- Automatic setup of blanks for grinding materials for inLab MC X5 elements
- Graphical user interface for equipping the multi-block holder with a display of the assigned and available positions with automatic collision control depending on the selected block size

IMPORT FUNCTIONS

- Import of STL elements without additional information (copings, crowns, bridges, bridge framework, inlays, onlays, veneers, „unknown“)
- Import of STL elements with additional information (preparation lines, insertion axes, etc.) from Exocad (*.constructioninfo) and 3Shape (*.3ox) for (copings, crowns, bridges, and bridge framework)
- Semi-automatic identification of preparation lines for imported elements
- Manual editing of preparation lines for imported elements

POSITIONING OPTIONS

- General positioning options
 - Stack grinding of several elements for inLab MC XL grinding jobs
 - Individual positioning of elements for inLab MC XL and inLab MX X5 milling jobs
 - Milling/nesting of elements for inLab MC XL and inLab MC X5 milling jobs
- Special positioning options
 - Automatic positioning in the blank
 - Manual positioning in the blank
 - Spider web / Stock islands function for milling jobs
 - Machine-specific direct and automatic collision control during positioning with warning messages
 - Automatic height optimization: tilting restorations (only with inLab MC X5)
 - Manual vertical positioning of restorations
 - Manual horizontal positioning of restorations
 - Single pin positioning for single-tooth restorations in blocks and disc blanks
 - Automatic calculation and positioning of sintering supports
 - Manual activation and deactivation of sintering supports
- Positioning options for support pins:
 - Automatic positioning of support pins
 - Manual positioning of support pins
 - Manual addition and removal of individual support pins
 - Precise manual repositioning of support pins
 - Modification of support pin diameter per job

MACHINING PROCESS

- Extensive range of materials
 - Zirconium oxide
 - PMMA
 - Composites
 - PEEK¹
 - Sintering metal
 - Glass ceramic
 - Hybrid ceramic
 - Lithium disilicate
 - For a detailed overview, please refer to the table „inLab CAM 15.0 Materials“
- Material- and indication-specific grinding and milling strategies
- Processing options
 - Selection of different processing sequences (according to material: rough, fine, extra fine)
 - Automatic proposal of processing sequence according to type of restoration
 - Selection of global processing sequence
 - Selection of processing sequence per element
 - Automatic fissure identification
- Immediate milling start with the first path after nesting
- Twin tool handling in the machining process
- Restarting the machining process in the event of an error
- Automatic anatomic thinning of support pins (global, can be deactivated)

CONFIGURABLE PARAMETERS

- Stack parameters for the grinding process
 - Horizontal Stack connector can be activated or deactivated
 - Modification of the connector cross-section
 - Modification of the restoration distance
- Model parameters for the milling of models (only with inLab MC XL)
 - Modification of the model pin diameter
 - Modification of the model pin length
- Nesting parameters for the milling process
 - Modification of the minimum number of automatically proposed support pins
 - Modification of the support pin diameter
 - Modification of the safety clearance to the disc blank edge
 - Modification of the front block frame
 - Modification of the side block frame
 - Diameter of the sintering support

OTHER CONFIGURATION OPTIONS

- Freely selectable data path for the workpiece database
- Freely selectable data path for the tool magazine database
- Available in the following languages: German, English (UK), English (US), Spanish, French, Italian, Portuguese, Russian, Korean, Japanese, Chinese
- Configurable material database

NATIVE SUPPORTED INDICATIONS inLab MC X5 WITH inLab CAM 15.0

INDICATIONS	FROM inLab SW 15.0	VIA STL-IMPORT WITHOUT ADDITIONAL INFORMATION	VIA STL-IMPORT WITH ADDITIONAL INFORMATION (EXOCAD, 3SHAPE)
Coping	✓	✓	✓
Crown	✓	✓	✓
Inlay	✓	✓	–
Onlay	✓	✓	–
Veneer	✓	✓	–
Multilayertop Crown	✓	✓	–
Multilayertop Bridge	✓ ⁴⁾	–	–
Bridge Framework	✓	✓	✓
Bridge Framework	✓	✓	✓
Telescop	✓	–	–
Bar	✓	–	–
Screw retained Crown, completely milled from Disc	✓ ^{1),2)}	–	–
Hybridabutment, completely milled from Disc	✓ ^{1),2)}	–	–
Screw Retained Crown, grinded using Meso-Block	✓ ²⁾	–	–
Hybridabutment, grinded using Meso-Block	✓ ²⁾	–	–
Screw Retained Bridge-Framework, multi part (on Multi-Unit Abutments)	✓ ^{1),2)}	–	–
Screw Retained Bridge, multi part (on Multi-Unit Abutments)	✓ ^{1),2)}	–	–
Screw Retained Bar, multi part (on Multi-Unit Abutments)	✓ ^{1),2)}	–	–
Surgical Guide	✓ ³⁾	–	–
Miscellaneous	–	✓	–

¹⁾ inLab MC X5 only²⁾ Limited range of materials³⁾ inLab MC XL: 1 drill hole; inLab MC X5: ≥ 1 drill hole⁴⁾ inLab MC XL only

AVAILABLE VALIDATED MATERIALS inLab CAM 15.0 AND CAM 15.1 ^{1),2)}

SIRONA	VITA	IVOCLAR VIVADENT
CEREC Blocs CEREC Blocs C CEREC Blocs PC CEREC Blocs C PC CEREC Blocs C In inCoris ZI inCoris TZI inCoris TZI C inCoris CC inCoris CCB inCoris ZI meso inCoris model inCoris PMMA inCoris PMMA Guide CEREC Guide Blocs	Mark II TriLuxe TriLuxe Forte RealLife Enamic Enamic IS Suprinity Suprinity FC YZ T YT HT CAD-Waxx CAD-Temp monoColor CAD-Temp IS CAD-Temp multiColor	IPS Empress CAD IPS Empress Multi IPS e.max CAD IPS e.max ZirCAD IPS AcrylCAD Telio CAD
MERZ	3M ESPE	GC
artBloc Temp M-PM Disc Peek Bio Solution	LAVA Ultimate LAVA Plus Disc	Cerasmart Initial Zirconia Disk ST Initial Zirconia Disk HT
DENTSPLY	DEGUDENT	MISC
Celtra Duo	Cercon ht	Zirconium oxide Sintering Metal Wax PMMA Composite PEEK ³⁾

¹⁾ Availability of material may vary in some countries²⁾ Depending on inLab machine limited support for material types and material forms³⁾ inLab CAM 15.1 only