

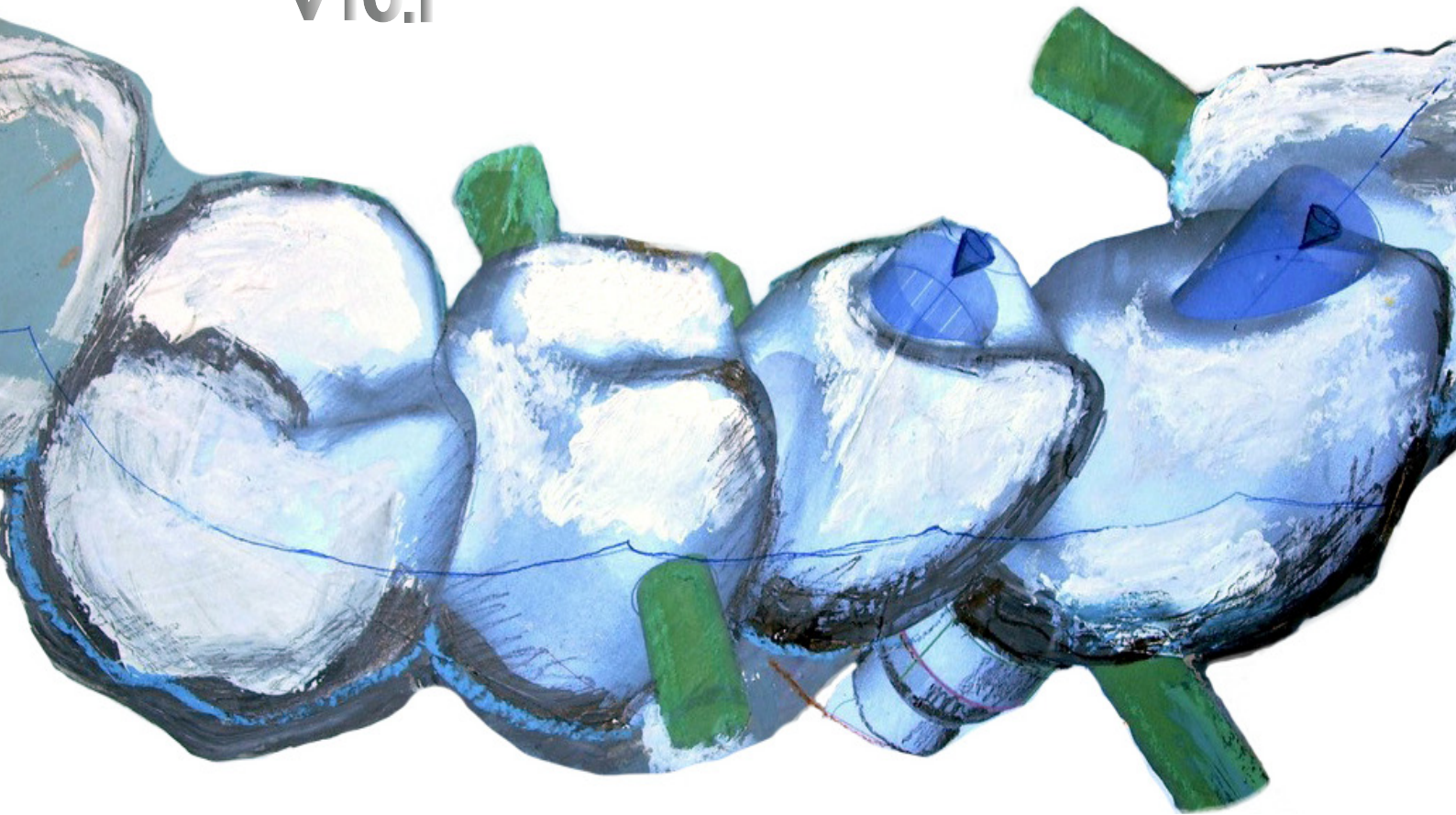


At the forefront of dental engineering

hyperDENT[®]
V10.1
product and function overview

hyperDENT®

V10.1



hyperDENT® V10.1 is a fitting choice for dental labs and large production facilities that want total control. The newly designed user interface is intuitive, dynamic, and most importantly, grants advanced users access to *hyperDENT*'s robust menu of unique settings and milling parameters.

It features a fully customizable workflow so facilities can set up their *hyperDENT* software to cater to their specific needs. Like organizing apps on your smartphone, V10 allows the user to shuffle around icons – making regularly used buttons more accessible, while hiding less-used features in secondary menus.

Also upgraded in *hyperDENT* V10.1 was the parts queue that pulls CAD data from multiple sources to organize and filter your files by shade, height, application type, and other attributes. A search box makes it easier to identify parts that are ready for nesting. On the surface, it may seem like a basic feature; however, it's a powerful tool that can search metadata and subfolder names to further customize your production process.

hyperDENT[®]

EXPRESS

V10.1



hyperDENT[®] Express V10.1 is fast and easy! Utilizing a simplified workflow with a guided wizard, it caters to more standard applications and less-experienced users. Another good case for *hyperDENT* Express is single part processing, like preform abutments and ingot-held ceramic blocks.

The functionality and performance you would typically expect from *hyperDENT* CAM hasn't changed. In fact, improvements were made to speed up calculation times and navigation through the software, resulting in an unbeatable price to performance ratio. Down the road, many innovations from *hyperDENT* will also be adopted into *hyperDENT* Express, meaning both products will progress at a similar pace.

hyperDENT function overview

hyperDENT® Express	hyperDENT®
Simple and predefined workflow that always starts with the loading of a milling object.	Less predefined workflow, user can decide whether to start the workflow by loading a blank or a milling object.
Single Part Workflow (one milling object at a time) to provide user the best ease of use.	Multi Part Workflow (several milling objects can be processed in parallel) to provide maximized user flexibility.
Due to single part workflow, the hyperDENT parts inque (automated loading and display of milling objects from CAD folder) won't be provided.	User can configure in general settings whether to work with hyperDENT parts inque or not.
Loading a milling object with CAD meta data leads the user automatically to the blank management (blank proposal) in order to streamline the workflow steps.	In case of loading a CAD file with meta data, user can configure in general settings whether he wants to proceed to blank management (proposal) as a next workflow step or wants to carry out a consistency check of the CAD file.
User guidance: in case of loading a milling object without CAD meta data, an intelligent wizard guides the user automatically through the required prepare steps.	In case of loading a milling object without CAD meta data, user can decide to go for the automated prepare wizard vs. preparing the part individually by himself.
Advanced operations (e.g. setting user defined areas) are predefined / categorized for the user already, which maximizes his ease of use.	User can individually design and save (e.g. user defined areas) in order to maximize his flexibility to design his own workflow.
Connector, sinter pin, or info engravings profiles are predefined for the user, which maximizes his ease of use.	User can define his own connector, sinter pin, or info engravings profiles in order to maximize his flexibility to design his own workflow.
Automated height optimization while nesting a milling object is performed and allows the user to work with the smallest blank possible.	User has a wide range of optimization features while nesting a milling object in a blank (e.g. height optimization and rotation around axes) which allows him to optimize his blank consumption.

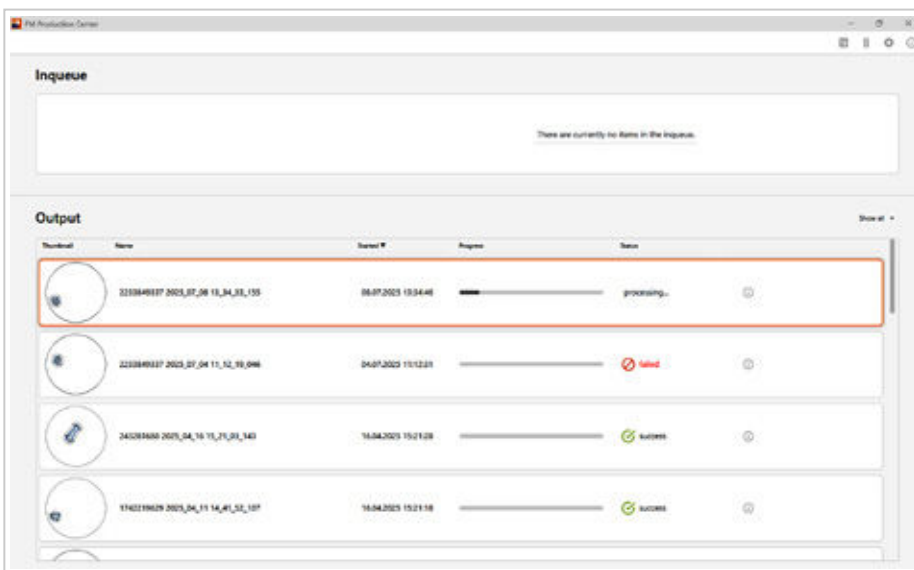
Production Center

Discussions about calculation times are a thing of the past. With the hyperDENT Production Center, you can simply outsource the toolpath calculations and let them run in the background - while you continue to work on current or new projects in hyperDENT without interruption.

The Production Center enables intelligent execution of calculations for individual projects. If an error occurs during the calculation of a project, it is skipped and the next project in the queue is started automatically. This means that calculations do not come to a complete standstill and the CAM user can continue working without interruption.

Your advantages at a glance

- No more waiting times: calculations run in the background
- Continue working without interruption
- Clear overview of blanks and jobs used
- Maximum efficiency in your day-to-day work
- Faster to the finished product



The screenshot shows the 'Production Center' window. It has two main sections: 'Inqueue' and 'Output'. The 'Inqueue' section is currently empty, displaying the message 'There are currently no items in the Inqueue.' The 'Output' section contains a table with four rows, each representing a job. The first row is highlighted with a red border and shows a job in progress. The second row shows a failed job, and the third and fourth rows show successful jobs.

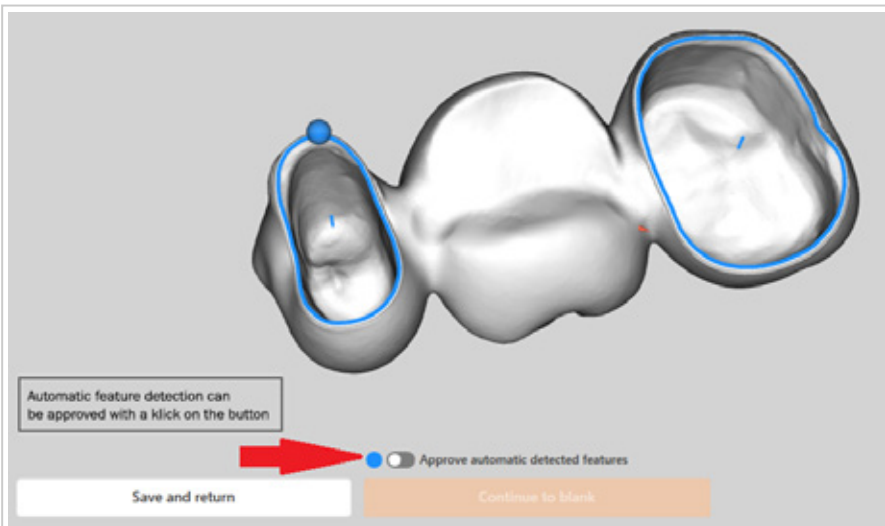
Thumbnail	Name	Start W	Progress	Status
	2233848137 2023_07_08 13_34_33_135	06.07.2023 13:34:40		processing...
	2233848137 2023_07_04 11_32_19_046	04.07.2023 11:12:31		failed
	24028560 2023_04_16 15_15_31_343	16.04.2023 15:21:08		success
	1740219829 2023_04_15 14_41_52_107	15.04.2023 15:21:18		success

Automatic feature detection

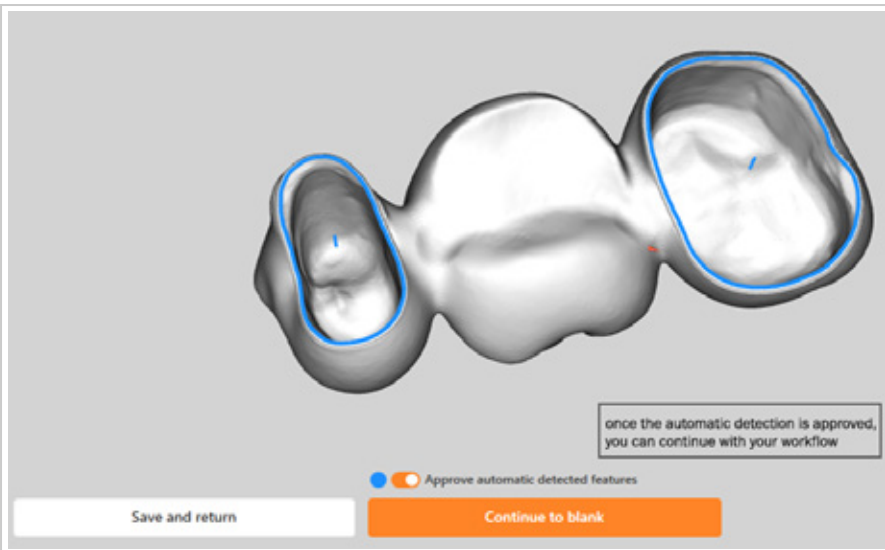


This allows STL data to be loaded into hyperDENT without any metadata.

As soon as the object is loaded the type of object is recognized and also where margin lines are to be set.



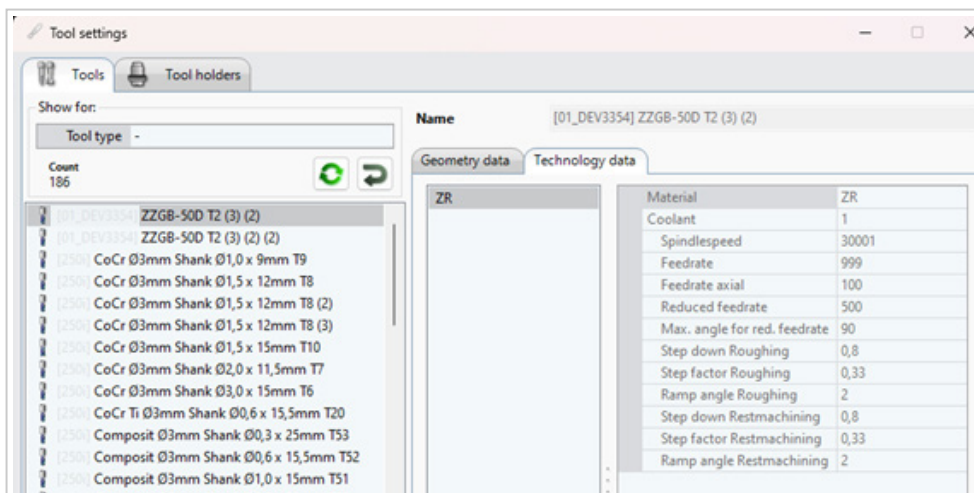
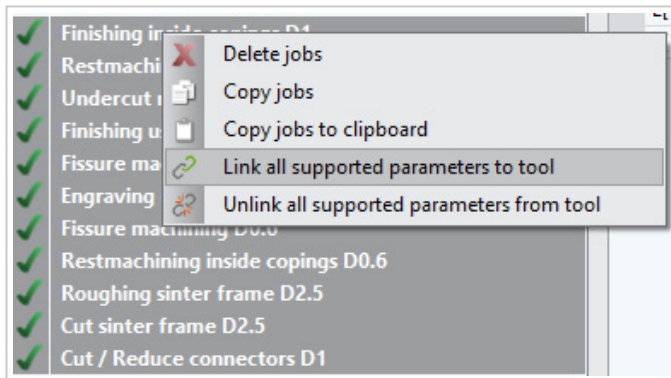
Automatic feature
detection can be approved
with a click on the button.



Once the automatic detection is approved, you can continue with your workflow.

Tech-Data stored within tools

With hyperDENT 10.1, essential technology data like spindlespeed, feed rate, material and more can now be stored directly within the tools. Once the technology data is set up within the tools you'll be able to link certain parameters or whole jobs in your templates. This allows templates to automatically access these values, making template creation and maintenance faster, easier, and more reliable than ever.



Handle undercuts

Significantly improved handling for undercut UDA creation for a given part. Now it's possible to keep the UDA creation panel open and switch between:

- Creating UDAs in outer areas
- Creating UDAs in cavities

Already created UDAs will only be shown if the area is set accordingly. If you want to see all existing UDAs, use the Icon in the view-area.

If margin lines are available, they will be selected if the area is changed. So it should be clear where hyperDENT is trying to find undercuts.

Inside of cavity

< Coping cavity 1 of 1 >

Existing undercut areas

< - of 2 >  

	Area: 4,805 mm ²	Depth: 0,104 mm	1 of 2
Initial	Area: 3,530 mm ²	Depth: 0,085 mm	2 of 2

 **Handle undercuts**

Inside of cavity

< Outer area - of 1 >

Existing undercut areas

< Nothing selected - of 0 >  

Initialization mode

 Create automatic UDAs from undercuts  Select from undercut area

Setup ▾
Machine dependent rotation axis
Not restricted
Maximum deviation
0 deg

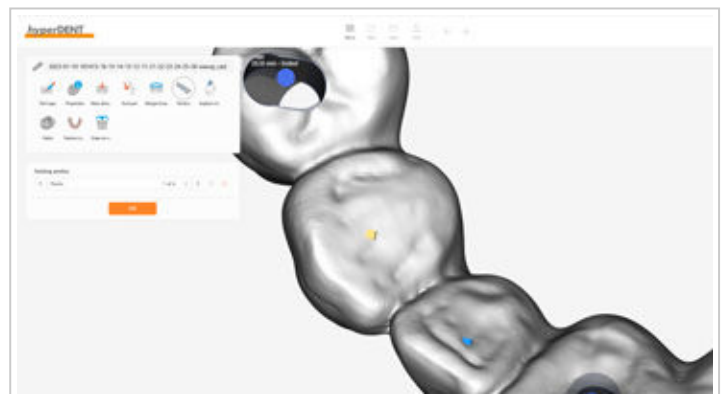
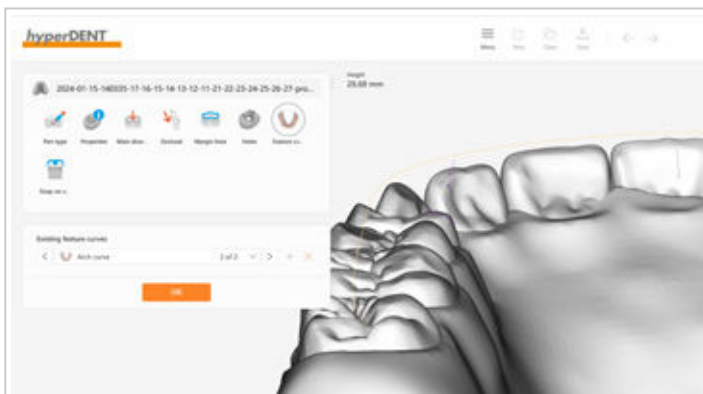
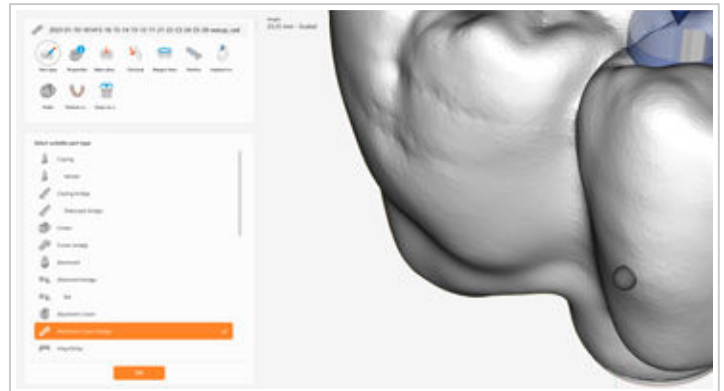
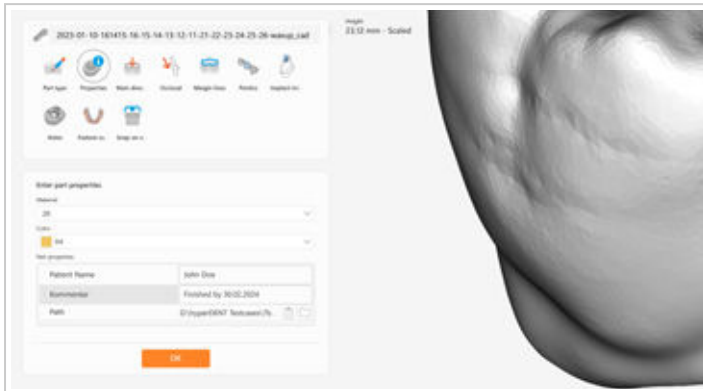
Object feature ▾
Object feature (is lower)
45
Depth threshold
0,5 mm
Object feature (equal or higher)
44

Reset

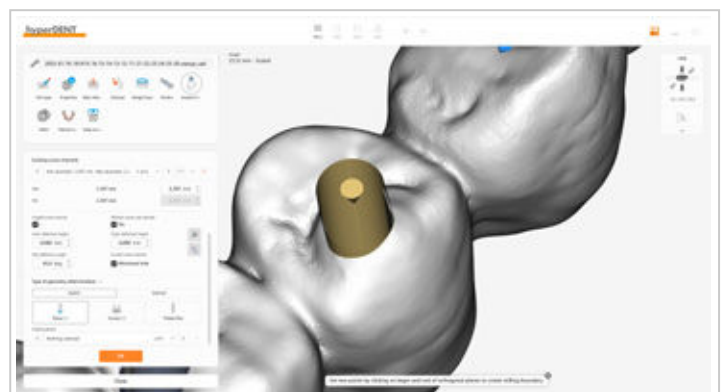
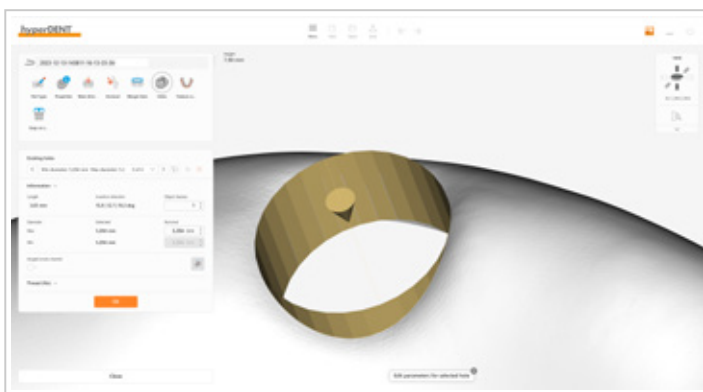
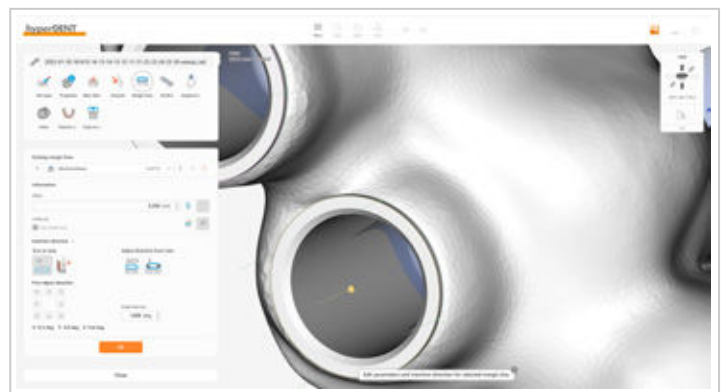
Generate

OK

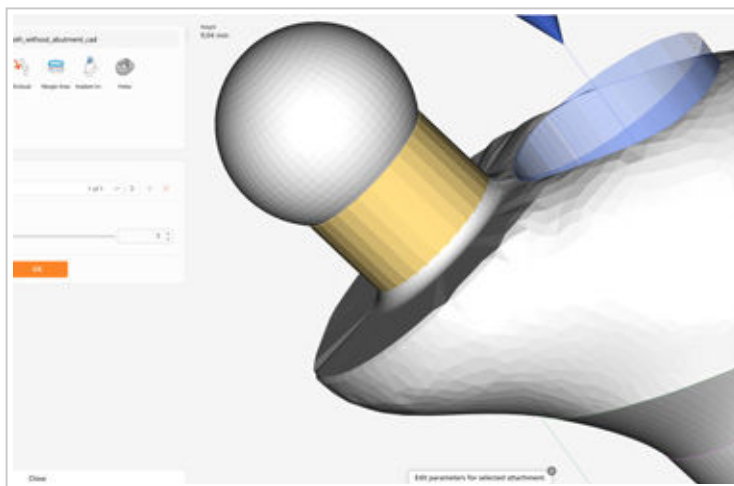
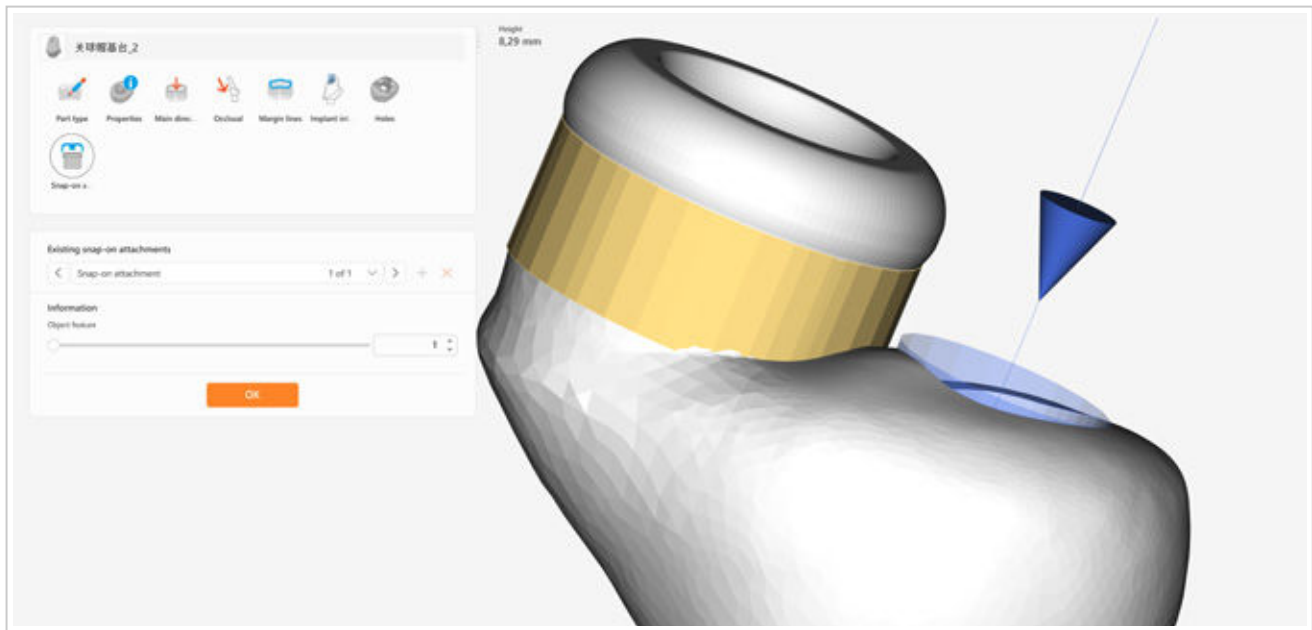
Simplified wizard



A very strongly guided workflow through simplified display of the tasks to be completed (margin lines, undercuts etc.) has been introduced. In addition, revised icons provide a more precise representation of the function.

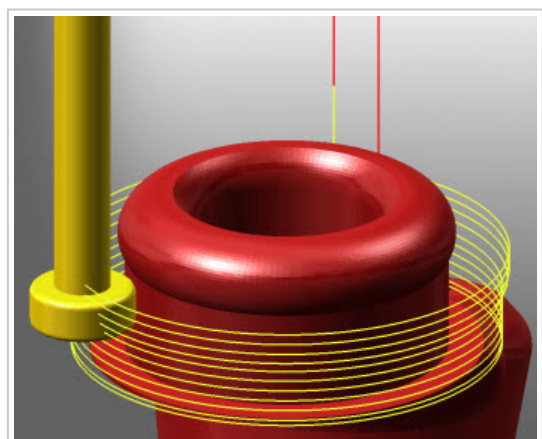
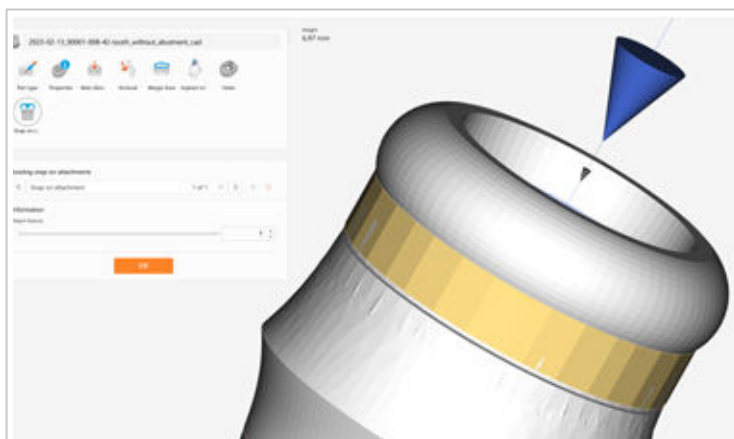


Snap-on attachments



Snap-on attachments with undercut machining:

New toolpaths and identification features were developed to accurately machine undercut areas with a T-slot or lollipop cutter, like for snap-on attachments.



hyperDENT Update Center

Get informed about the most important news and innovations.

We do not send out newsletters or spam mails, as we show you the latest information directly when you start the software.



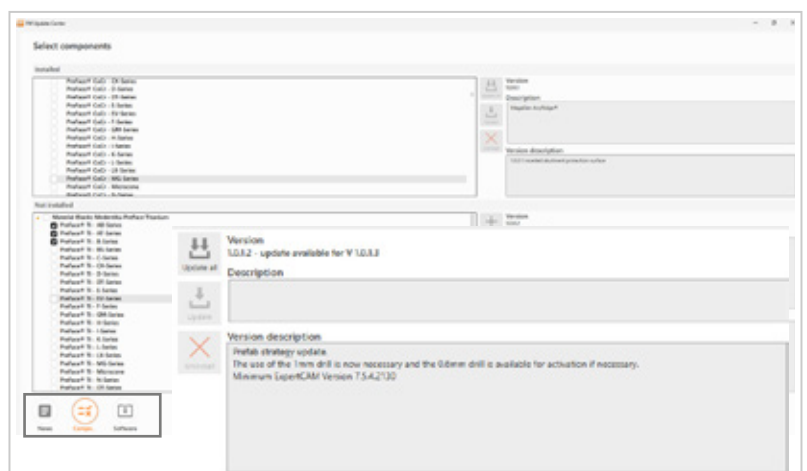
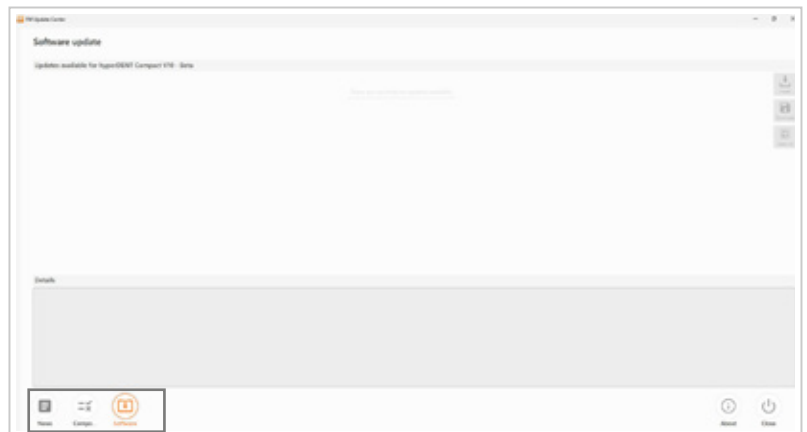
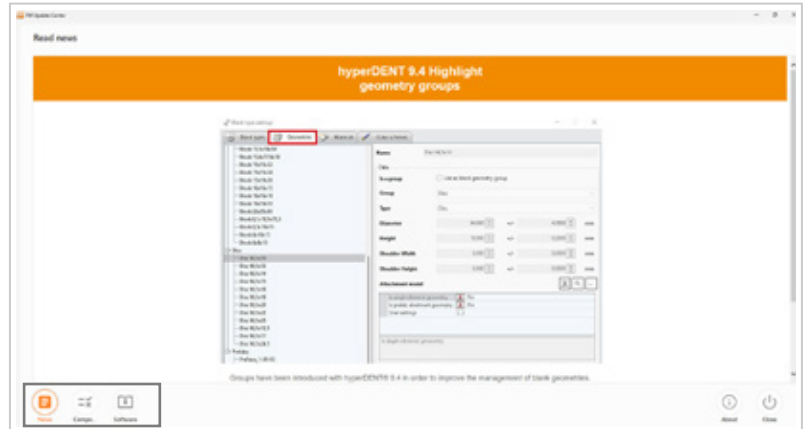
Softwareupdates

FOLLOW-ME! Informs you about updates to your hyperDENT® software. These can then be installed independently.



Component installation:

Install newly acquired blank holders, associated blanks libraries, and milling strategies yourself. At startup, hyperDENT Component Admin will suggest any manufacturer updates that were recently made, which ensures you are always utilizing up-to-date components. Because these components can be changed or uninstalled at any time, it eliminates the need for a third-party installation.



hyperDENT Modules - Power Milling Module

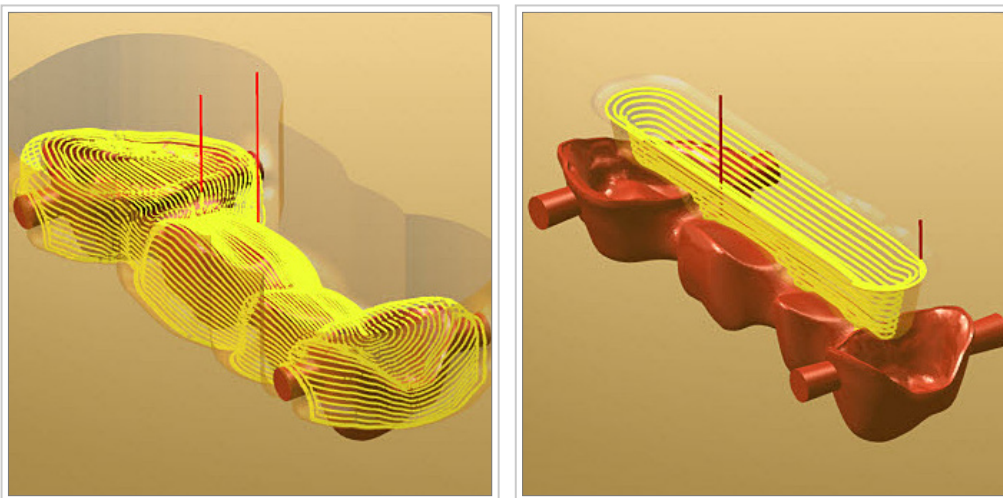
With the Power Milling module from hyperDENT, you can combine roughing and finishing in a single job, perfectly matched to the Zirkonator tool from Hufschmied Zerspanungssysteme. The CAD files are milled at full depth, ensuring an efficient, uninterrupted workflow - ideal for zirconia and other ceramic materials. With the hyperDENT PowerMilling module, you not only save valuable time, but also noticeably increase the efficiency of your production.

Single Milling element : about 18-25 minutes

Power Milling element: about 8-12 minutes

Abutment bridge : about 20 minutes for each element

Power Milling Abutment bridge: about 11 minutes for each element



Thanks to the Power Milling module, milling is not only more precise - material is also saved. In contrast to the traditional process, the milling boundary can be reduced, leaving more space for nesting other parts in the blank.

More power, less wear - for more economical and reliable production.

Thanks to a special tool coating, the service life of the Zirkonator tool is increased by up to 30 % while it takes over almost all milling work. This also protects all other tools in your production, as they are used less frequently and their service life increases significantly as a result.



Your advantages at a glance

- Significantly reduced milling times
- Perfect surfaces in a single step
- Maximum material removal
- Fewer tool changes, less set-up time
- More output - same machine runtime

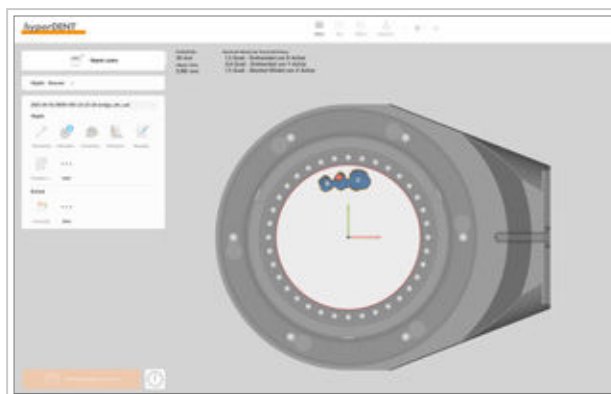
Roughing and finishing in one job. Maximum depth. Minimum time.

hyperDENT Hybrid Express Module

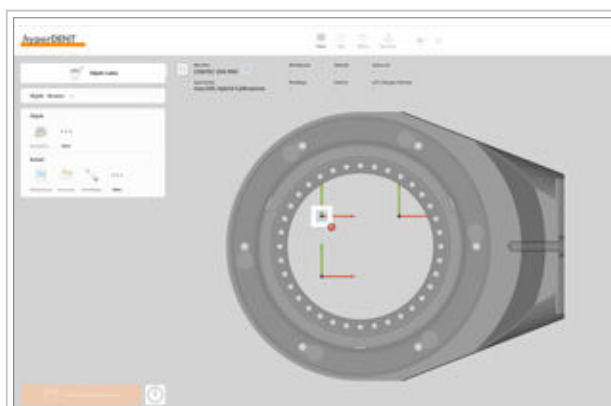
The hyperDENT Hybrid Express Module opens up new possibilities in hybrid processing on milling machines without a zero-point clamping system. It has been specially developed for the precise machining of any indication on both sides and to precisely maintain the required tolerances.

Particularly suitable for implant connections and telescopes.

To use the hybrid module, you simply need to drill holes in your existing disc holder. These enable the Hybrid Fixture Ring to be locked in place precisely.

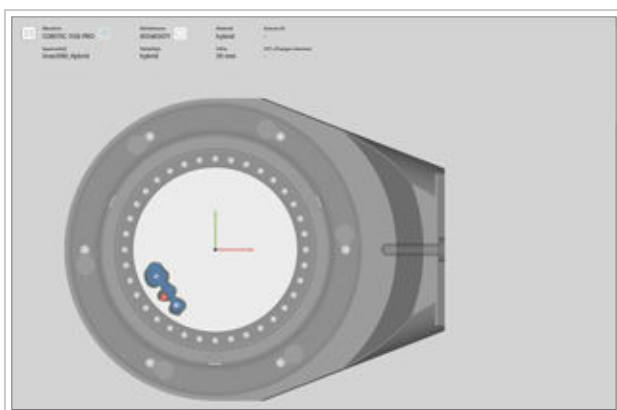


The supplied hybrid fixture ring is precisely adjusted using prefabricated calibration cubes. Thanks to specially developed programs and strategies, it is processed and measured until the defined target dimensions are achieved.



hyperDENT enables fast, easy nesting and toolpath calculation for post-milling areas through a step-by-step wizard that ensures a smooth workflow. These areas can include cavities for telescopic indications, implant interfaces (such as screw channels and screw seat areas for screw-retained indications), or user-defined zones requiring specific milling strategies. This functionality ensures precision and flexibility, especially in complex restorations.

After toolpath calculation, object finalization is quick and easy using Blender CAD in the hyperDENT Hybrid Express Module. Material can be added with an intuitive paint tool, and connectors aligned with the fixture ring are applied. The finalized STL file is then ready for export to 3D printing software.



Your advantages at a glance

- Double-sided post-processing of sintered parts without additional clamping system
- Precise correction of telescopes and implant connections
- Easy integration into existing machine concepts
- Cost-efficient thanks to reuse of existing machine components
- Reliable calibration for reproducible results

Precision rethought - with the hyperDENT Hybrid Module Express

HYPERDENT CONNECT

Connected with experts

Sharing your digital dental restorations the easy way.

hyperDENT® Connect

Under the hyperDENT Connect brand, FOLLOW-ME! Technology offers cloud services developed as added value for hyperDENT users and resellers. The first of these services is the FOLLOW-ME! Reseller Portal. Here, every hyperDENT reseller can see at a glance all the hyperDENT licenses they have sold to their customers, including all necessary information such as:

- Licensed product and licensed modules
- Term of the product and modules
- Maintenance period or expiration of maintenance
- Customer to whom the reseller sold the hyperDENT license

The screenshot displays the hyperDENT Reseller Portal interface. The top section, 'Reseller Tickets', shows a table with columns for ticket ID, subject, status, and priority. Below this, the 'License Content' section is visible, featuring a table with columns for license ID, name, status, expiration date, and modules. The interface includes a sidebar with navigation options and a top navigation bar with the hyperDENT logo and a 'Sign out' button.

The screenshot shows the 'About' section configuration form in the hyperDENT Reseller Portal. It includes fields for 'Reseller Logo', 'Reseller Support Contact', and 'Reseller Sales Contact'. There are also sections for 'Company Information' and 'Contact Information' with various input fields for name, address, phone, and email. A 'Save' button is located at the bottom right of the form.

In addition, hyperDENT resellers can use the portal to configure information that will then be displayed in the “About” section of their customers’ hyperDENT products:

- Reseller logo
- Reseller support contact
- Reseller sales contact



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