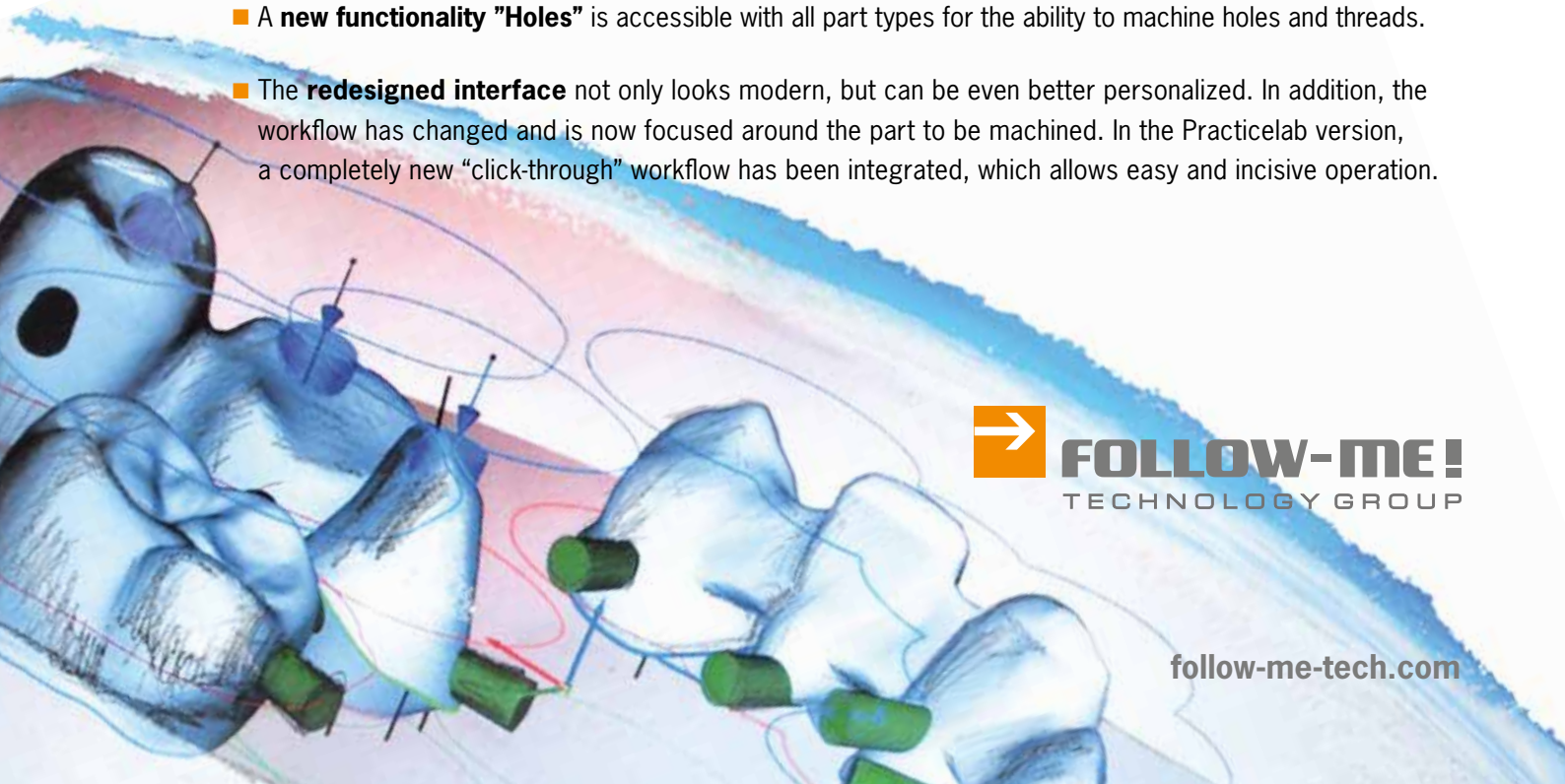
hyperDENT® V8

hyperDENT® V8: At the forefront of CAM dental engineering

The new version of *hyper*DENT® exhibits a newly designed, easy to use, user interface and workflow process. Developed for practical laboratories, the simplified workflow and improved features enable the user to be more effective and efficient while reducing the number of necessary steps.

- With the **multi-fixture support**, it is possible to load multiple parts into several different blanks at various slots/positions and calculate together to optimize tool change.
- The **intelligent suggestions for blanks** (environment filter), **automatic part tilting** in the nesting process, **part type specific connector profiles**, and the **improved connector calculation**, ensures an extremely simple workflow.
- **Manual detection of margin lines** has been significantly simplified.
- **A 4-axis simultaneous machining** was integrated for an improvement on surface quality for prefabricated blanks (Prefab).
- By using **64-bit cycles**, calculation times can be greatly shortened.
- A **new functionality "Holes"** is accessible with all part types for the ability to machine holes and threads.
- The **redesigned interface** not only looks modern, but can be even better personalized. In addition, the workflow has changed and is now focused around the part to be machined. In the Practicelab version, a completely new "click-through" workflow has been integrated, which allows easy and incisive operation.



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hyperDent® V8 datasheet

Practicelab	Compact	Classic	Functionality	Description
X	X	X	Project-Management	Project and blank management, input of lot number and ID possible.
X	X	X	Project-Report	Project report as a printout or export file (PDF).
–	X	X	Load-Wizard "Traditional"	Automatic initialization of workflow process steps.
X	–	–	Load-Wizard "Click-Through"	Automatic navigation through the workflow process.
X	X	X	Autonesting	Local nesting: Automatically places the part in the ideal position in the blank close to its current location. Global nesting: Automatically places the part in the ideal position in the blank based on a wide range of adjustable parameters that can be set for every fixture.
–	X	X	Calculation Merge	Multiple project calculations can be merged together into one NC file to optimize tool changes.
–	X	X	Disc machining	Processing of discs and freeform blanks.
X	X	X	Block machining	Processing of blocks, such as e.g. Glass ceramic or hybrid ceramic (E.Max, Ultimate, Enamic,…).
X	X	X	Prefabs	Processing of blanks with prefabricated implant interface geometry.
–	X	X	Sinterframe	Add sintering frame to large zirconium bridges to help prevent warping during the sintering process.
–	X	X	Traverses	Add part to part connectors to minimize/eliminate wasted material on a blank.
X	X	X	CAD-Connect (3Shape …)	*hyper*DENT® is opened automatically from the CAD program. Parts are loaded directly from CAD into *hyper*DENT® where they can be nested or stored in hD inqueue.
–	–	X	Multi-Instances	*Starting hyper*DENT® *multiple times. Simultaneously work on multiple projects.*
–	–	X	User defined areas	Ability to select "user defined areas" for machining individual areas of the part. (Various milling strategies, tolerances, and job parameters are possible)
X	X	X	Multi-fixture support	Calculation of several parts/blanks in a multi-fixture.
–	X	X	Newly Designed User Interface	Newly designed user interface with customizable sizes and colors.
X	–	–	New User Interface with "Click-Through"-Workflow	A new user interface with automatic navigation through a simplified workflow process for an effortless and incisive operation.
X	–	–	Machine-Connect	Milling program can be loaded directly onto the machine (currently for Roland DWX4-W only).
X	X	X	Auto-Filter Stockmodels	Automatic suggestion of suitable blank types.
X	X	X	64-bit cycles	Faster tool path calculation with 64-bit cycles.
O	X	X	Feature Detection	Detection of margin lines and screw channels without CAD interface possible.
X	X	X	Auto-Connectors	Automatic placement of connectors.
X	O	O	Grinding Module	Machining of glass-ceramic/Lithium Disilicate etc. with special, tool considerate cycles for grinding.
–	O	O	Multi Machine Usage	Any number of machines and machine types can be operated with one *hyper*DENT® license.
–	–	O	Template Generator Module	Ability to write and edit templates. Create your own milling strategies and adapt tools and cutting data.
–	–	O	Implant Module	Ability to define the machining categories and areas of abutments. Divided into different areas for processing with separate tools and strategies. (Template Generator Module is necessary for the independent configuration)
–	–	O	Geometries	Prepared exchange geometries for fast and easy processing of abutments. Machining of Abutments and Multiunits.
O	O	O	Full Denture Module	Machining of full dentures including the Merz Baltic Denture System with specific strategies.
–	O	O	Lava Workflow	Machining of Lava Materials in 3M Lava workflow.

X = function available **O** = option **–** = function/option not available