



CELOS

Simple & Smart · The Next-Generation Interface

CELOS simplifies and accelerates the machining process from an idea to a finished product. It is as easy as using a smartphone while seamlessly connecting to your company's IT systems. By expanding its connectivity, CELOS plays a pioneering role in forming an IoT (Internet of Things) system to lead our machine tools into the wave of Industry 4.0.

As DMG MORI's standard interface, CELOS will keep evolving to provide the path to increase machining profitability.

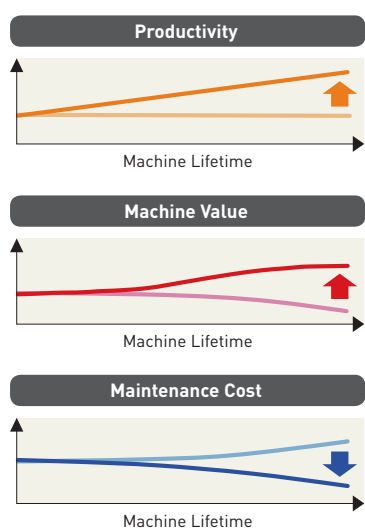


CELOS Club

Continuous Support of Your Productivity Improvement

A "powerful machine tool" cannot be defined by the machine itself anymore. In the current IoT movement, software plays a major factor to improve operational efficiency and production. Correspondingly, as the number of machine tools increases, it is important to build an efficient centralized machine control by utilizing the latest network technology.

CELOS Club provides a lifecycle software solution to integrate your machine tools into a digital ecosystem. This package includes various applications and services that will support you to maximize the use of CELOS and significantly boost your productivity.



CELOS Club

Up-to-date system

New functions

Efficient management

Reduction of down time

Budget saving

Purposes of CELOS Club

- + Ensure the best and latest machine conditions at all times
- + Constantly support productivity improvement
- + Accommodate the impacts from rapidly-changing market environment and platform
- + Achieve high profitability with highly efficient production

Exclusive services of CELOS Club

- + Latest functions always available through version upgrades
- + Efficient machine management and machining program creation
- + Enhancement of machine functions by software upgrades and additional options
- + Down time minimization by machine status monitoring and remote services
- + Peace of mind protection of CELOS system with discounted part prices

- Countries subject to CELOS Club are Japan and the U.S. only [as of January 2018]. The service will be available for more countries and areas. For details, please consult our sales representative.
- The contents vary depending on the country. For details, please consult our sales representative.
- Machines subject to CELOS Club are models equipped with MAPPs and ERGOline Touch only.

DMG MORI Visual Programming System

Easy creation of machining program on PC



DMG MORI Visual Programming System is an application that enables you to create machining programs on a PC just by following the guidance on the screen. This allows significant reduction of programming time and centralized management of programs.

- DMG MORI Visual Programming System license is valid only during CELOS Club subscription period.
- To use Visual Programming System, a PC with Microsoft Windows 7 or above is required.

■ Simple programming



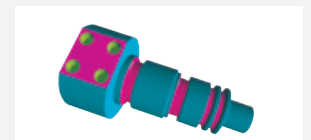
【Easy input of G codes / M codes】

G codes and M codes can be easily input using the guidance input functions.

【Automatic selection of required tools and cutting conditions】

Required tools and cutting conditions can be automatically determined by a simple entry of a process cycle defined by machining shape and process information. Furthermore, NC programs that are created by Cycle Input can be edited directly for the selected machining process.

■ Error-free programming for safety assurance



【Simulation for verification】

Machining shape and tool path can be easily verified via standard NC simulation function.

■ Data compatibility



【Compatibility between MAPPS V and VPS】

Program files created in VPS can be directly used in MAPPS V without any modification.

MfgSuite NC Simulation

Offline NC program verification

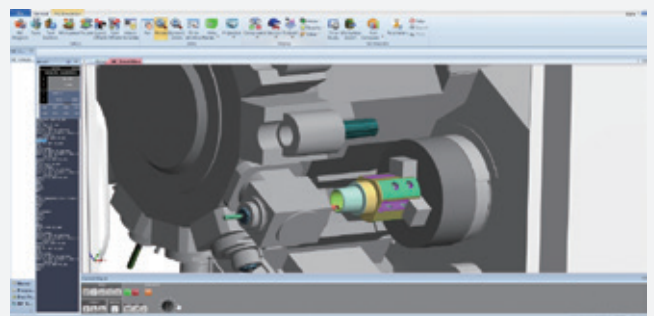
MfgSuite (Manufacturing Suite) is a Windows application software that provides high-performance and high-accuracy virtual machining with interference checking functions. As a machine-builder's own software, it is full of DMG MORI machining know-hows to deliver most confident cutting simulations.

- MfgSuite license is valid only during CELOS Club subscription period.
- To use MfgSuite, a PC with Microsoft Windows XP SP3 or above is required.

■ Accurate 5-Axis machine simulation



■ Full machine collision detection



Complimentary 3D skin model*

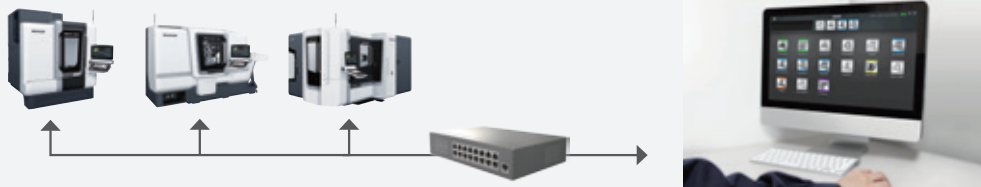
Independent machine model can be provided upon request.

* This offer is only available for CELOS Club members.

CELOS PC-Version

Direct access from PC to machine

CELOS PC-Version allows you to use CELOS functions on a PC and access to CELOS-equipped machines from your office through network. It also permits transferring job data to each machine on the shop floor and offers centralized management of machining setups, instructions and maintenance information. Production planning and progress management during setup operation become possible with CELOS PC-Version.



Accumulate machining know-how by JOB MANAGER



- Systematically manage jobs
- Manage machining information (e.g. drawings, 3D models) and NC programs



Job-linked machining instructions by JOB SCHEDULER



- Display job schedule
- Assign jobs to networked machines
- Manage job schedule of multiple machines



Efficient maintenance by SERVICE AGENT

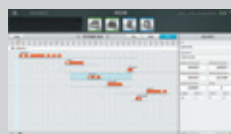


- Collectively manage maintenance information of multiple machines
- Check maintenance status and send additional maintenance information

Job creation by JOB MANAGER



Job assignment by JOB SCHEDULER



Periodic maintenance by SERVICE AGENT



Add, edit or delete periodic maintenance items

Can be used as an original periodic maintenance tool

- CELOS PC-Version license is valid only during CELOS Club subscription period.
- To use CELOS PC-Version, a PC with a minimum screen resolution of 1,920×1,080 and Microsoft Windows 7 or above is required.

DMG MORI Messenger

Maximizing productivity by machine monitoring

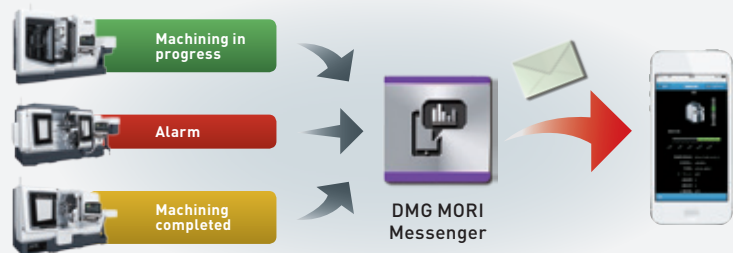
DMG MORI Messenger provides an access to live detailed machine status at anytime from anywhere. Continuous online monitoring enables our customers to get an overview of their production performance and be informed of malfunctions immediately via e-mail or SMS.



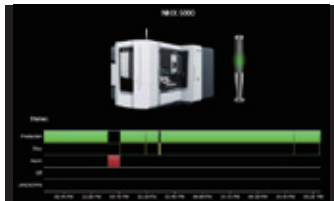
Live Demo

See it on our demo website:
www.dmgmormessenger.com

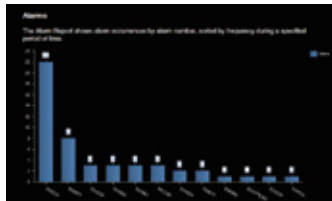
- + Live online monitoring of your DMG MORI machines
- + Convenient web access from smartphones and tablets
- + Instant notification of alarms and reduction of machine downtimes
- + Simple generation of XLS data or PDF reports



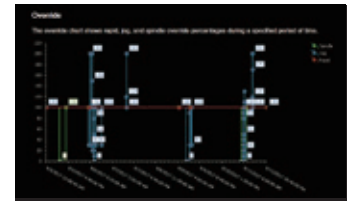
Data Examples



【Machine Status Live View】



【Alarm Frequency】



【Override History】

- DMG MORI Messenger license is valid only during CELOS Club subscription period.
- To use DMG MORI Messenger, a PC with Microsoft Windows 7 or above is required.

NETSERVICE

Remote assistance of the qualified service technicians



For your need of DMG MORI support on technical problems, NETSERVICE offers an immediate and comprehensive analysis of the problem through secure internet connection between your machine and our service center.



- NETSERVICE license is valid only during CELOS Club subscription period.
- To use NETSERVICE, the machine is required to connect to internet.

CELOS / MAPPS V Free Version Upgrade

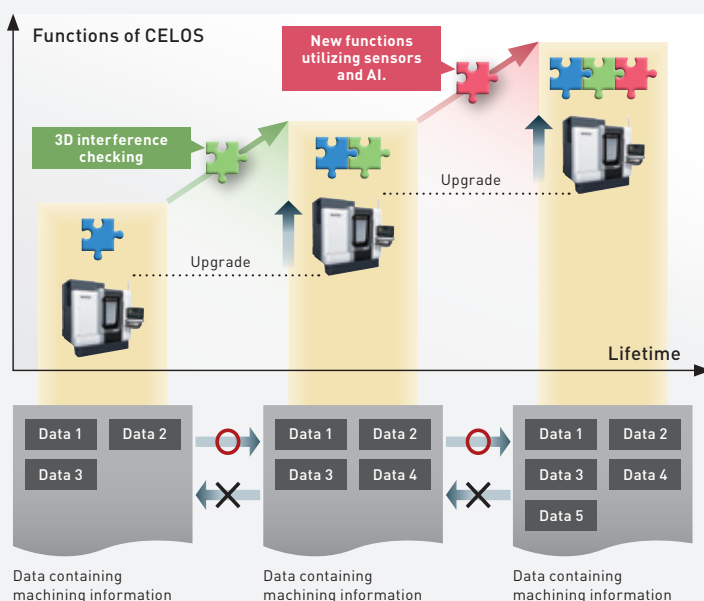
Latest features always available through version upgrades



- + Free annual upgrade of CELOS software^{*1} to receive new features, enhanced existing functions, and improved operability
- + Data compatibility assurance between existing machine and newly introduced machine for a smooth machine deployment
- + 20% discount on software option purchases^{*2}
- + Functions that were not available at the time of machine installation can be added by the later upgrade

^{*1} Easy upgrade to the latest version with a USB memory device.

^{*2} Only applicable on machines with valid CELOS Club subscription.
Please contact DMG MORI sales representative for details.



Worry-Free Protection

Reliable support in case of failure



- + 50% discount on spare parts for ERGOline Touch
- + Module-basis replacement to ensure quick repair and shorter downtime

● The discount applies to spare parts only (labor is excluded).

<Precautions for Machine Relocation>

EXPORTATION:

All contracts are subject to export permit by the Government of Japan.

Customer shall comply with the laws and regulations of the exporting country governing the exportation or re-exportation of the Equipment, including but not limited to the Export Administration Regulations. The Equipment is subject to export restrictions imposed by Japan and other exporting countries and the Customer will not export or permit the export of the Equipment anywhere outside the exporting country without proper government authorization.

To prevent the illegal diversion of the Equipment to individuals or nations that threaten international security, it may include a "Relocation Machine Security Function" that automatically disables the Equipment if it is moved following installation.

If the Equipment is so-disabled, it can only be re-enabled by contacting DMG MORI or its distributor representative. DMG MORI and its distributor representative may refuse to re-enable the Equipment if it determines that doing so would be an unauthorized export of technology or otherwise violates applicable export restrictions.

DMG MORI and its distributor representative shall have no obligation to re-enable such Equipment. DMG MORI and its distributor representative shall have no liability (including for lost profits or business interruption or under the limited service warranty included herein) as a result of the Equipment being disabled.

+ For any functions not featured in the MAPPS system you are currently using, software updates are required. For details, please consult our sales representative. (There will be a charge for the software update)

+ Some functions are not supported by some models.

+ The product names in this catalog are all trademarks or registered trademarks of the individual companies.

+ The actual screens may differ from those shown in this catalog.

+ CELOS, ERGO*line*, SLIM*line*, COMPACT*line* and DMG MORI gearMILL are trademarks or registered trademarks of DMG MORI CO., LTD. in Japan, the USA and other countries.

+ If you have any questions regarding the content, please consult our sales representative.

+ The information in this catalog is valid as of October 2017. Designs and specifications are subject to changes without notice.

+ The machines shown in the catalog may differ from the actual machines. The location and the size of the nameplates may also differ from the actual machines, or the nameplates may not be attached to some machines.

+ DMG MORI is not responsible for differences between the information in the catalog and the actual machine.

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