NEW

CELOS® PC version

4 new APPs:
- Job Scheduler
- Messenger
- Service Agent
- Tool Handling

CELOS®
Simplified machine operation with comprehensive integration for your business.

www.dmgmori.com
As a highly versatile and broadly compatible tool, CELOS® optimizes interaction between man and machine via the new DMG MORI ERGOLine® panel that features an adjustable 21.5” multi-touch display with icon-support and gesture-based user interaction. CELOS® further cultivates innovative manufacturing environments with task-specific APPs that link your machines to external software, including CAD / CAM systems and proprietary IT infrastructure (ERP / PPS) – for comprehensive global network integration.
centralized access to all applications

“I have all the required information for a given job electronically available.”

“Machine operation is now much easier.”

APP MENU
centralized access to all applications

MULTI-TOUCH USER INTERFACE
from CELOS® with the MAPPS panel on a MITSUBISHI control for exceptional user comfort and unique functionality.

“Easy access via an external computer – with CELOS® I can bring my office to the machine.”
CELOS® offers a uniform interface for all high-tech machines from DMG MORI. It features a large 21.5” multi-touch display with CELOS® APPs for comprehensive management, documentation and visualization of jobs, processes and machine data. Your machine operations are simplified, standardized and automated. The latest CELOS® features 16 APPs, giving you optimal direct control over your production planning and job processing.

CELOS® uniquely integrates the machine with your existing IT infrastructure for a seamlessly comprehensive digital production process. It also has an ever-growing APP selection for even greater production efficiency.

CELOS® delivers 30% faster production by directly combining ERP / PPS and PDM. With CELOS®, DMG MORI is setting new standards and leading the way for Industry 4.0.

New!

4 new APPs
2 for production and
2 for support (page 30)

CELOS® for PCs

With the new CELOS® for PCs, optimal planning and control of your production processes are available during preparation. CELOS® for PCs also allows you to integrate most machines and peripherals into one comprehensive system. (page 38)
APP MENU

Just like a smartphone, the APP MENU offers direct access to all available programs, which are organized into 5 groups.

THE 5 APP GROUPS:

- Production
- Utilities
- Support
- Configuration
- Machine views

CELOS® HIGHLIGHTS

SEAMLESS
Seamless operation across all new DMG MORI machines.

COMPATIBLE
Compatible with PPS / ERP systems, CAD / CAM products and all CELOS® APPs.

COMPREHENSIVE
Comprehensive management, documentation and visualization of jobs, processes and machine data.
JOB MANAGER INTERFACE

DEMO BLISKSEGMENT
Start Date: 2/4/15
Target Date: 2/4/15
Priority: B

DEMO LANDINGGEAR
Start Date: 2/4/15
Target Date: 2/4/15
Priority: B

DRUCKGUSSSFORM
Start Date: 2/4/15
Target Date: 2/4/15
Priority: A

HANDABROLLEL
Start Date: 2/4/15
Target Date: 2/4/15
Priority: B

INTEGRALBAUTEIL (18.000)
Start Date: 2/4/15
Target Date: 2/4/15
Priority: B

KEGELRAD
Start Date: 2/4/15
Target Date: 2/4/15
Priority: B

POWERSKIVING DMC 80 FD DB P4
Start Date: 2/4/15

Job Name: Demo Blisksegment
Job ID: 53553
Execution Date: 2/4/15
Start Date: 2/4/15

Client Name: DMG MORI
Client ID: 0815 2335
Execution Time: 5:30 AM
Target Date: 2/4/15

Parts
Available: 25
Desired: 10
Finished: 0
Failed: 0
Material: Titan

Setup 1
Tools
Clamping Devices
NC Data
0/10

Setup 2
Tools
Clamping Devices
NC Data
0/10

Add Setup
JOB MANAGER

Systematic job planning, management and preparation

- Machine-specific job setup
- Organized storage of all relevant production data and documentation
- Clear job visualization, including NC programs, equipment, etc.
JOB ASSISTANT

Define and process jobs

- Menu-guided machine setup and interactive job processing
- Reliable error warnings through step-by-step screen guidance and confirmation windows
JOB ASSISTANT INTERFACE

DEMO BLISKSEGMENT - SETUP 1

Setup Name: SETUP 1
Setup ID: 1
Start Date: 2/4/15
Target Date: 2/4/15
Available: 25
Desired: 10
Finished: 0
Failed: 0

DESCRIPTION

TOOL INFORMATION
UTILITY DEVICES
CLAMPING DEVICES
NC DATA
ADDITIONAL INFORMATION

Load Setup to NC
CAD / CAM VIEW INTERFACE
CAD / CAM VIEW

Workpiece visualization and program data optimization

- Direct remote access to external CAD / CAM workstations
- Centralized master data for workpiece visualization
- Immediate adjustment options for machining steps, NC programs and CAM strategies on the control
TECH CALCULATOR

Calculate technical data, dimensions and values

- Material-/process-dependent calculation of optimal machining data for speed, feed or spindle load
- Standardization of defined dimensions, including fittings or threads
- Scientific calculator
User-friendly library for easy and quick access to required information
Digitized database of all machine-specific manuals, documentation and customer data
Full-text search and bookmark function for frequently referenced information
ORGANIZER

Calendar and notes

› Calendar and notes function
› Customizable notification features
› User-specific messages with SMARTkey® identification
NETSERVICE

Expert support with remote diagnosis over the Internet

- Direct communication with DMG MORI service support via the control
- Online error analysis and technical support over the Internet
- Reliable data security through VPN access
MACHINE CHECK

Maintenance and repair management

- Process-supported maintenance and repair notification system
- Preventive maintenance and service planning

MACHINE CHECK inactive when utilizing SERVICE AGENT.
**Warning:** Maintenance required according to the manual for 8h.

- 8h Machine servicing: Now
- 50h Machine servicing: Next in 12h
- 250h Machine servicing: Next in 161h
- 500h Machine servicing: Next in 411h
- 1000h Machine servicing: Next in 911h
ENERGY SAVING INTERFACE

ENERGY SAVING MONITOR

READY TO OPERATE 1730 h
CHECK SHUTDOWN SETTINGS

PROCESSING 15362 h
TOTAL TIME 20492 h
STANDBY 3400 h
ENERGY COSTS 3400 €

READY TO OPERATE 04.25 h
PROCESSING 12.15 h
TIME SINCE 13.04.2013
STANDBY 05.05 h
ENERGY COSTS 4.29 €
ENERGY SAVING
Automated energy management

- Categorized energy balance display for varying machine conditions (hp., CO₂, etc.)
- Program-controlled shut-off, warm-up and standby functions for machine, pneumatics, display and work area lighting
- Workpiece and machining time process analysis for optimal energy consumption
SETTINGS
Customization

› SMARTkey® custom user access
› User-specific APP settings
› General system personalization
STATUS MONITOR

Machine status in real-time

- Visualization of machine status (spindle load, etc.)
- Display of job information, including workpiece quantity, batch size and remaining production time
- Maintenance notifications and critical energy recovery warnings
CONTROL

*Machine control with touch functions*

- Familiar control interface with touch functionality
- Additional side display for status information, including spindle load, chip conveyor, coolant, etc.
CONTROL INTERFACE
New!

Job Scheduler Interface

CELLS

Job: Bohrkopf D65
Client Name: DMG MORI

Allowed Job Start Date: 2/2/15
Allowed Job End Date: 2/7/15
 Planned Job Start Date: 2/2/15
 Planned Job Start Time: 12:09 AM
 Planned Job Duration: 05:00:00
 Priority: A

Available Desired Finished Failed
4 4 0 0
JOB SCHEDULER

Production planning for all machines

- Setup, management and scheduling of individual jobs
- Coordination and transfer of jobs to the machine(s)
- Overview of the complete job status on all machines
MESSENGER

Real-time operational status updates

- Real-time status overview of all networked machines
- Detailed status and history information for each machine
- Evaluation of machine runtime, downtime and disruptions
**New!**

**MESSENGER INTERFACE**

**Group Reports**
- Shop Floor Tokyo

**Live View**
- Run Rate
- Run Rate Trend
- Manufacturing Triangular

**Machines in this Group:**
- DMU 85 *monoBLOCK*
  - 102 / VFR / 409265 / DMU 85
- DMU 65 *monoBLOCK*
  - 104 / VFR / 408580 / DMU 65
- DMU 210 FD
  - 301 / VFR / 507944 / DMU 210 FD
- DMC 125 FD *duoBLOCK*
  - 302 / VFR / 508268 / DMC 125 FD3
- NHX 5000
  - NHX 5000_CDS
- NHX 4000
  - NHX4000_SP
- NHX 5000
  - NHX5000_TO
- NLX 2000 SY
  - NLX 2000_TC

**Location**
- DMU 85 *monoBLOCK*
  - 102 / VFR / 409265 / DMU 85
- DMU 65 *monoBLOCK*
  - 104 / VFR / 408580 / DMU 65
- DMU 210 FD
  - 301 / VFR / 507944 / DMU 210 FD
- DMC 125 FD *duoBLOCK*
  - 302 / VFR / 508268 / DMC 125 FD3
- NHX 5000
  - NHX 5000_CDS
- NHX 4000
  - NHX4000_SP
- NHX 5000
  - NHX5000_TO
- NLX 2000 SY
  - NLX 2000_TC

**Status**
- Green
- Red
Service Agent Interface

**Short Instructions**

Cooling unit machine-Check the filling level. Check the mixture ratio. Replace the filter mat.

**Task Details**

- **Cooling unit machine-Check/Replace**
- **Short name**: KA002
- **Category**: Maintain
- **Module**: Cooling unit
- **Execution trigger**: Program running
- **Maintenance Interval**: 250
- **Next execution**: Last execution
- **Execution time**: 15 min
- **Postpone permitted**: Yes
- **Execution notification**: Yes
- **Notification Email**
- **Advance notification**: No

**Wear Parts**

- **Prod. Code**: 78201098
  - **Designation**: K-FROSTSCH*-GLYS.G48
- **Prod. Code**: 23100046
  - **Designation**: MESS-PRUEFMIT-FROSTSCHUTZ G48
- **Prod. Code**: 2488610
  - **Designation**: FILTERMATTE*460*390*0*R83x8
- **Prod. Code**: 2442670
  - **Designation**: FILTERMATTE*990*690*15
- **Prod. Code**: 2766479
  - **Designation**: FILTERMATTE*0*0*0*R815

**Machines**

- **Designation**: DMU125FD3
- **Number**: 11940000313
SERVICE AGENT
Optimal machine availability via an intelligent maintenance system

- Overview of machine maintenance requirements
- Advanced notice of upcoming maintenance and service
- Listing of all necessary replacement parts and equipment
- Follow-through support
TOOL HANDLING

Faster setup with “estimated / actual” comparisons to streamline magazine loading for sequential jobs

- Display of all required tools for a specific job, including automatic generation of a loading list
- Creation of a unloading list via automatic identification of unnecessary parts for upcoming jobs
Comprehensive production planning on a PC with CELOS®.

Once you install the CELOS® software on your PC, all CELOS® functions are immediately at your disposal. With the new CELOS® for PCs, optimal planning and control of your production processes are available during preparation. With the JOB MANAGER APP, you can create jobs and coordinate them with your machines via the JOB SCHEDULER APP. Also, with the MESSENGER APP, you have a real-time comprehensive overview of all machines and production conditions.

CELOS® for PCs also allows you to integrate most machines and peripherals into one comprehensive system. Increase the availability of your machines with CELOS® for PCs and real-time overviews of all job data.

CELOS® for PCs combines planning and production to give you a competitive advantage for the Industry 4.0 environment.
PLANNING ON A PC WITH DIRECT CONNECTION TO THE MACHINE

From a PC directly to the machines
Simplified machine operation with comprehensive integration for your business.

Experience CELOS® live!
Schedule a demonstration at your nearest DMG MORI Technology Center.