



# SmartMold

## MOLD MONITORING SYSTEM



## MOLD • MACHINE • FACTORY

# SmartMold

## MOLD MONITORING SYSTEM

SmartMOLD is a cloud-based software platform developed by the molding experts at Mold-Master, DME and Milacron, dedicated to the plastics industry providing real-time data to drive injection molding innovation. Process data is collected from sensors embedded within the injection mold which offers feedback and insights that drive enhanced productivity. Our solution is the first step towards predictive and autonomous capabilities within your facility.

Although SmartMOLD is focused on the mold, it also has the potential to pull data from injection molding machines. SmartMOLD is compatible with any brand of equipment.

## POWERED BY THE CLOUD

- Real time data
- Accessible 24/7 with reporting and analytics
- Ensures you always have the latest version (no manual updates required)
- Does not require customers to have their own IT team in order to support
- Enables the path to predictive and other powerful capabilities



## DATA SYSTEM INTEGRATION

- Pull data into existing ERP/MES systems
- API's available for any system
- Export data in various formats (Excel, csv, xml, net, etc)

## FLEXIBLE & ECONOMICAL

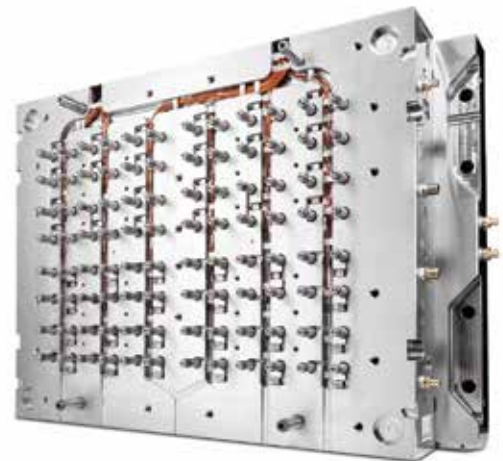
- Compatible with any brand of mold and/or machine
- Connect molds only, injection machines only or connect everything
- Users can scale the system to their facility and budget requirements
- Only pay for what you use

## A GLOBAL SOLUTION

- Server facilities operating in several major regions
- Compliance with local data privacy laws
- Enhances data response times
- Unlimited data storage
- Global installation and technical support

## ROBUST DATA SECURITY

- Compliant with ISO 27000 and regional Laws (Chinese Internet Law, GDPR)
- Complete data privacy and confidentiality
- Guaranteed end-to-end protection
- Private and dedicated servers
- Redundancy, backup and fail-over
- Maintain 24x7 availability to your data
- Unlimited data storage
- Customers own their own data



ITEM NUMBER	DESCRIPTION
SMMODULEKIT	SMARTMOLD MOLD CONNECTION STARTER KIT
SMV3MODULE	SMARTMOLD HUB
110-526	SM HUB POWER SUPPLY 24V DC, INTERNAL HARNESS
110-533	SM HUB POWER SUPPLY 24V DC, EXTERNAL CABLE - 10M
135-714	SM HUB TC CONNECTION HEADER
110-528	ETHERNET CABLE 4.5/15'
655-001	PROXIMITY SENSOR ASSY
245-047	PROXIMITY SENSOR

ITEM NUMBER	DESCRIPTION
245-048	PROXIMITY MOUNTING BRACKET
030-6037	PROXIMITY MOUNTING BLOCK
655-002	HUMIDITY SENSOR ASSEMBLY, ENVIRONMENTAL
245-049	ENVIRONMENTAL HUMIDITY SENSOR
245-050	WATER FLOW/TEMP SENSOR
COTS0062	PRESS MODULE - RED BOX
COTS0059	GATEWAY MODULE - GREEN BOX
325-065	MODULE 24V DC POWER ADAPTER WALL PLUG
60J723	J-TYPE THERMOCOUPLE

## MULTI-PLANT OVERVIEW



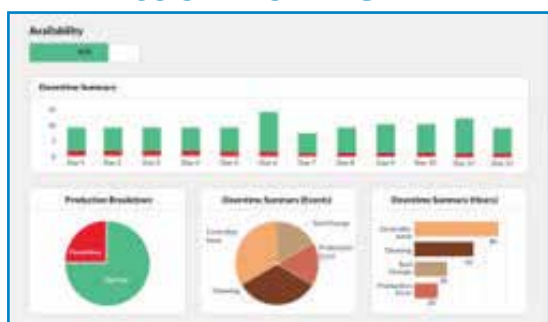
See critical details of your facilities and molds from a global perspective. Filter allows users to focus on certain projects/regions.

## INDIVIDUAL VIEW



Compare productivity shift to shift. Track downtime and scrap.

## ANALYTICS & REPORTING



Visual charts make information easy to digest. Reports can be pulled on almost anything and scheduled to be run at regular intervals.

## PLANT PRODUCTION OVERVIEW



A simple high-level view with icons to quickly identify issues.

## MAINTENANCE SCHEDULE & HISTORY

TASK	INTERNAL	PROPOSED	REMAINING	DATE DUE	COMPLETED
Service A	10,000	2,750	7,250	10/15/2017	
1. Check and visually inspect gear components (lubricate if necessary)					
2. Clean and visually inspect gear housing					
3. Perform routine check on all electricals against the provided electrical diagram					
Service B	10,000	0,000	10,000	10/15/2017	
1. Remove timing plates, visually inspect for plastic leakage					
2. Remove cover, Peltier and check for corrosion (cleanse with alcohol)					
3. Clean and visually inspect housing top					
Service C	10,000	0,000	10,000	10/15/2017	
1. Remove nozzle and nozzle from plates, clean and inspect nozzle (cleanse)					
2. Replace pressure filter					
3. Replace main gate components (check for block)					
4. Replace thermocouples					

Ensure proper maintenance guidelines are followed and tracked what's been completed.

## PHONE APP & QR CODE ID TAGS



View production status and enter data on the go. Quickly identify and pull up equipment information. Set email/sms alerts on almost anything.

# QR-CODE BASED MOLD TAGS - SMARTER ASSET MANAGEMENT

SmartMOLD QR-Code ID tags are available as a standalone asset management tool that allows users to keep track of maintenance schedules and documents. Even as molds travel from location to location, their documentation and service history is always on hand. Mold information can be viewed on our dedicated mobile app or on our desktop platform.

## KEY FEATURES:

### ONLINE DOCUMENT STORAGE

- Store documentation such as drawings, BOMs, user manuals and other technical documents
- Supports a range of file formats
- Unlimited capacity enables the path to predictive and other powerful capabilities

### MOLD INFORMATION

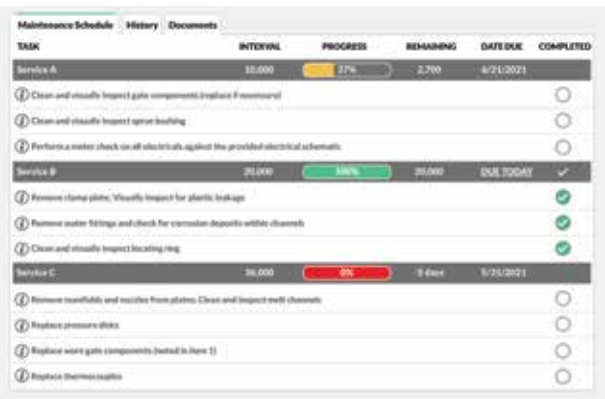
- Complete as-designed mold information
- Easily reference detailed info
- View what can't fit on a standard printed mold tag

### COMPLETE FLEXIBILITY

- Attached to any brand of equipment
- Option to add advanced capabilities at anytime

### SERVICE & MAINTENANCE SUPPORT

- Set maintenance schedules and tasks
- Set time-based reminders (email/text)
- Linear service history records
- Enter service notes



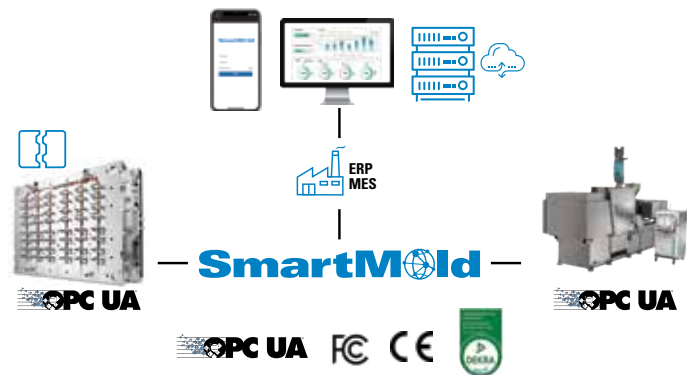
Set time-based reminders (email/text) to ensure maintenance is completed on time.

Set-up Tasks to ensure proper maintenance guidelines are followed and track what's been completed.

### SUITABLE FOR GLOBAL OPERATIONS

SmartMOLD QR-Code ID tags are powered by **"the Cloud"**. Our servers are located in several key global locations to support our diverse customer base. Since the system is cloud based, your documents and information is available on our secure network 24/7. Best of all, we manage the systems for you, so its one less task that your IT team needs to manage.

## SMART CONNECT NETWORK OPTIONS



## SPECIFICATIONS

Mold Sensor Options	Cycle Count/Time - Mold Temperature (x8) Cooling Temperature - Cooling Flow - Humidity
Sensor Options	Digital / Analog
Communications	OPC-UA
Requirements	Mold Machine
System Connections	Ethernet
Requirements	Internet Connection 24V DC Power
Install Placement	Electrical Box
Dimensions (HxWxD)	106 x 141 x 55



**DME Company LLC**  
29111 Stephenson Highway  
Madison Heights, MI 48071  
**800-626-6653 toll-free tel**  
[www.dme.net](http://www.dme.net) web  
dme@dme.net email

**DME of Canada Ltd.**  
A-99 First Gulf Blvd.  
Brampton, ON  
Canada L6W 4T8  
**800-387-6600 toll-free tel**  
dme\_canada@dme.net email

