	REC_001		
OK	Shot weight		OK
GLX-NG	20 g		GLX-NG
	Set time		
1.000 %	5.0 s		1.000 %

10246 shots
1
[DOSING]

10599 shots
2
[DOSING]

MCSmart

Continuous data logging software for monitoring, quality control and material management

4 INDUSTRY 4.0 READY

MCSmart monitors the performance of all gravimetric Movacolor systems controlled from one to unlimited number of touch screen controllers.

The system is based on a SQL database for 24/7 of data collection. Data can be retreived at any time, even after months.

MCSmart can be installed as stand alone or a server/ client application. Multiple desktop users can access the database. Available functions depend on used login level securing any risk of unintended use.

An unlimited reporting function for generating material consumption reports and alarm summary reports is at your disposal.

Connection is established via standard LAN network. The software can be installed on any standard PC, stand alone or in a central server configuration.

All recipes can be made and managed in this system. These recipes are synchronized to individual units and can either be activated locally or remote, taking away any possible operator mistakes.

The remote operation option allows you to duplicate the touch screen on your computer and perform all operations, as if you were in front of the unit.

Features
- Real time monitoring
- Data logging
- Reporting
- Material management
- Recipe management
- Back-up and restore

Continuous data logging

All process parameters are continuously stored in a database. Data can be retrieved and analyzed at any time.

Reporting

Custom reports can be generated for a daily journal of material consumption and product quality.

Material and recipe management

Recipes can be created, edited and deleted. Changes are synchronized to the touch screen controller. Materials can be selected and linked to a recipe. Recipes and materials can be saved for back-up / restore requirements.

MCSmart
Technical specifications

SYSTEM REQUIREMENTS
- Windows 7, Windows 8, Windows 10
- Intel i5 processor or higher
- 3 gigabytes of RAM
- 10 gigabytes of free hard disc space
- 10/100/1000 Mbs Ethernet port

COMPATIBLE MOVACOLOR UNITS
MCTC with software version 2.1.0 or higher

DATA LOGGING CAPABILITIES
- All process data per shot (injection molding) or per time interval (minimum 1 sec)
- 24/7 data logging
- SQL database
- Material consumption per batch, based on order number

DATA EXPORT / REPORTING
- Different export options (.xlsx, .xls, .csv and more)

VIEW OPTIONS (SUMMARY)
- Status overview multiple units
- Individual unit settings
- Data table all parameters
- Graph three parameters, multiple graphs

RECIPE FUNCTIONALITY
- Download recipes from controller
- Make / modify / delete recipes
- Upload recipes to controller
- Activate selected recipe in controller

REMOTE OPERATION
Full screen replication via VNC

TROUBLE SHOOTING OPTIONS
- Download event and alarm log
- Full remote operation
- Back-up and upload configuration

LOCALIZATION
- Multilingual user interface
- Metric and imperial units supported

LICENSES
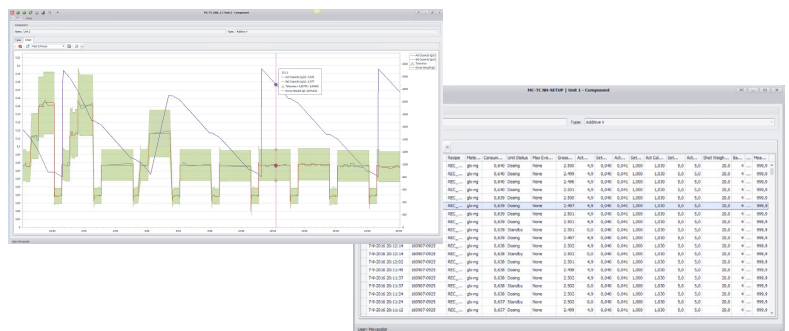Three levels of licenses are available: Basic, Standard and Advanced

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Consumption Report
20160928-1

Order Number	
Order Start	**20160928-1**
Order End	28.09.2016 18:55:58
Order Used Recipe	29.09.2016 11:51:32

Machine Name		MC-TC-Ext4
Group Name		Ext4
Group Consumption		57,15497 gram
Unit Name		Hammade
Unit Type		Weight
Component Name		HAMMADE
Component Material		MCWEIGHT
Component Consumption		892,2078 gram
Unit Name		Kataliz
Unit Type		Balance

Detailed table or graph view
Historical data can be analyzed using a detailed table or a graph view. By means of a "date picker" production data of months ago can be recalled. In detailed table view multiple filter options can be used to find the right data.
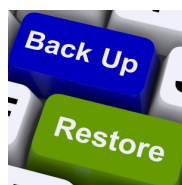

Server / client

Multiple users can access the historical production data simultaneously for report generation or activating a recipe and starting a new production order.

Back-up and restore

Configuration
Download of MCTC controller configuration for back-up and restore requirements.

Materials and recipes
Recipes and materials can be saved to the local drive for back-up and restore purposes, but also for copying a recipe or material to another production line.

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