

# EMC Cell Manager

## Table overview

EMC is available for various CNC systems, which means it can be used irrespective of the machine. The versions available are listed below. The standard version can be extended by some sensible options.

	Heidenhain from iTNC 530	Millplus	Siemens on request	Fanuc on request
Cell Manager, 1 machine	ER-051010	ER-051020	ER-051030	ER-051040
Cell Manager, 2 machines	ER-051011	ER-051021	ER-051031	ER-051041
Option EWIS™ Rapid			ER-051050	
Option Toolcheck			ER-051060	
Option Toolcheck 2 <sup>nd</sup>			ER-051061	
Option Reporting			ER-054040	
Option Alarming			on request	

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## EROWA

### EMC (EROWA Manufacturing Control) Cell Manager

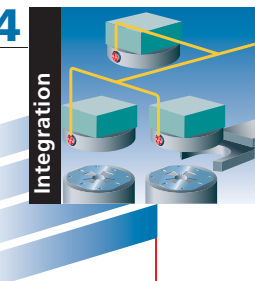


Simple control of milling machines with a Robot



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System solutions  
from one single source

# EMC Cell Manager EROWA Manufacturing Control



For the machine operator, it is important to have his manufacturing cell under control at any given time. Status messages about work supply, magazine loads, tool availability and priorities must be seen at a glance. The operator must be able to intervene quickly and flexibly in order to react to changing conditions. The EMC cell manager satisfies these requirements - indeed, it exceeds them.

### Robot status

The color of the graph frame indicates the status of the Robot. Green = ready; yellow = active; red = error; blue = original position.

### Machine status

The status of the machine and of the current workpiece can be recognized at a glance. A color code facilitates the overview. Move the mouse across the graph to display detailed information.

### Loading/unloading

The Robot will respond to a mouse-click.

### Machine is ready

The warming-up program starts on its own. The machine will be ready for operation and warmed up before you start on the first job.

### Completing jobs

The two most important buttons are START and STOP. The status bars provide information about the current job and the current machining process step.

### Current machining process

Move the mouse to the workpiece icon, and you will see at once what workpiece is now being machined.

### Setting priorities

The priority of the machining order can be changed with a mouse-click. In this way, you are able to place an express job into the process where it will fit.

### Replacing tools

Which tools will not be needed for the jobs lined up? Press a button to find out. You will see at once which tools can be replaced or exchanged.

### Tools available

What tools are available, and for what jobs are they used? It is unlikely that this overview has ever been achieved at this speed before. With EMD and the tool management system, this information will become a daily help.

### Last status

It is important to know the last status of a workpiece. If, for example, the message „Main program not available“ displays, the operator knows what to do at once.

### Current pallet

The pallet that is currently in the machine is highlighted - quickly and clearly to see, for practical life on the shop floor.

### Remaining tool life

The remaining life of the various tools can be read from the tool table of the machine, and it is represented graphically. This is relevant to the plans for unmanned shifts.

Ident	Name	Status	Grupp	Lebensdauer
1	NAME 1	Rot	GP	20%
2	NAME 2	Rot	GP	20%
3	NAME 3	Rot	GP	20%
4	NAME 4	Rot	GP	20%
5	NAME 5	Rot	GP	20%
6	NAME 6	Rot	GP	20%
7	NAME 7	Rot	GP	20%
8	NAME 8	Rot	GP	20%
9	NAME 9	Rot	GP	20%

### Evaluation of magazine loads

Have you prepared enough work for the entire night shift? This evaluation will provide you with the answer based on the current magazine load.

Pos	Status	Werkstueck	Pos	Bearbeitungsdauer	Yonung	Start
5	Rot	EROWA	1	00:40:00	Laden 1	07.12.2006 09:49
5	Rot	EROWA	1	00:40:00	Bearbeitung	07.12.2006 09:50
5	Rot	EROWA	3	00:40:00	Laden 3	07.12.2006 10:30
5	Rot	EROWA	3	00:40:00	Bearbeitung	07.12.2006 10:31
10	Rot	EROWA	13	00:40:00	Laden 13	07.12.2006 11:11
10	Rot	EROWA	13	00:40:00	Bearbeitung	07.12.2006 11:12
20	Rot	EROWA	11	00:40:00	Laden 11	07.12.2006 11:52
20	Rot	EROWA	11	00:40:00	Bearbeitung	07.12.2006 11:53

### Magazine graph

The graph represents the configured magazine. The number of pallet positions is indicated with numbers. The various colors show the parts that are ready, have been machined or are defective, all at a glance.

The main interface displays two machine status windows (MT001 and MT002) with graphical representations of the robot and machine. Below these are two detailed tool tables for MT001 and MT002, showing columns for Priority, Status, Workpiece, Group, Description, Position, Last Error, Start Time, End Time, Processing Time, Program, and Pallet. At the bottom is a large magazine graph with 20 numbered positions, each represented by a colored bar indicating its current state.

Werkzeug	Mag. Pos.	Status
NAME-1	1	Fehler
NAME-4	4	Fehler
NAME-5	5	Fehler
NAME-8	8	Bereit
NAME-9	9	Bereit

Werkzeug	Mag. Pos.	Anz. Verwendungen	Werkstueck-Gruppe	EROWA	ORENDA
NAME-2	07	24	TST	23	1
NAME-3	08	23	TST	23	0
NAME-6	09	1	TST	1	0
NAME-7	07	1	TST	1	0

This software has been developed by practitioners for everyday work on the shop floor. It makes the control of CNC milling machines with automatic pallet change simple and easily manageable. And - regardless of the machine you work on - the user surface is always the same.