

Application for real-time monitoring and analysis of robot work

Manage production in your company more efficiently



Robot monitoring is real-time. The program monitors the current values of variables, registers, and signals and stores them in a database based on definitions, where you can continue working with them. The work of robots can also be monitored via webcams.



Preventive and predictive maintenance helps detect robot defects in advance, reducing unexpected production downtime caused by sudden and critical errors. The application enables data monitoring according to specified parameters as well as planning and supervision of service inspections at pre-set times or based on collected data.



Evaluation of overall equipment efficiency OEE (Overall Equipment Effectiveness). Based on the scanned values, the application evaluates Performance, Availability, and Quality and determines the OEE from them. This helps to uncover hidden robot reserves and, as a result, helps to increase production efficiency.

Key features

- Records of controllers and robots including the location in the production line.
- IP camera surveillance of robots.
- Notifications of important events or fulfilled conditions enable quick reactions to critical situations and save costs for the downtime of the robot or the entire production line.
- Alarm overview, which can be supplemented with camera recording just before and after the event.
- JBI file editor allows editing, 3D display, and job playback.
- Backups can be scheduled or performed immediately. Only changed files are backed up. It is possible to download the whole backup or partial parts.
- Overview history and graphs offer a long-term view of monitored production data. Data can be filtered, grouped, and displayed by a period in different types of graphs.
- Language versions – EN, DE, and CZ versions.
- Customization according to user requirements.
- Remote pendant – display remote desktop for YRC models.

Evidence and current status of robots

Name	TI	4	0	3	1	0	3	2	-	0	2	0	1	1	0	3	TI	Model	TI	Location
Motoman DX200																		DX200		OKsystem
Motoman FS100																		FS100		OKsystem
Motoman NX100																		NX100		OKsystem
Motoman YRC1000micro																		YRC1000micro		OKsystem

File backup

Plans	Controller	Active	Inactive	24. 1. 2022	23. 1. 2022	22. 1. 2022	21. 1. 2022	20. 1. 2022	19. 1. 2022
3/3	Metoman DX200	1000/680/0		1000 AM/680/0	2:38 PM/723/20	2:38 PM/723/20	2:38 PM/723/20	2:38 PM/723/20	2:38 PM/723/20
2/2	Metoman YRC1000micro	Není zdišhodváno		11:52 AM/22/0	2:39 PM/67/20	2:39 PM/67/20	2:39 PM/67/20	2:39 PM/67/20	2:39 PM/67/20
2/2	Metoman NX100	Není zdišhodváno		2:40 PM/37/13	2:40 PM/37/13	2:40 PM/35/13	2:40 PM/37/13	2:40 PM/37/13	2:40 PM/37/13
1/1	Metoman FS100	Není zdišhodváno		2:41 PM/53/0	2:41 PM/53/0	2:41 PM/53/0	2:41 PM/53/0	2:41 PM/53/0	2:41 PM/53/0

Alarms (overview of current alarms, complete history, camera recording option)

The screenshot shows the 'Alarms' section of the Checkbot interface. It features a table with columns for 'Current', 'Detected', 'Removed', and 'Webcam'. Below this, a 'History' table lists individual alarm events with columns for Date, Type, Code, Alarm, Text, Detail, and Remedy. The table shows several Level 4 to 7 (Minor) alarms related to M-SAF signals.

Graphical representation of OEE

The screenshot displays the OEE dashboard for 'AK OEE Motoman DX200'. It includes a table with columns for 'Play', 'Remote', 'Teach', 'Serve on', 'Operating', 'Not tracked', 'Alarm', 'Error reading state', 'Error', 'Operating at safe speed', 'Hold', 'Step', 'Connection busy', and 'Total stop'. Below the table is a bar chart showing OEE performance over time, with bars for Availability (green), Performance (orange), and OEE (blue).

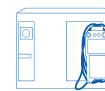
Maintenance

The screenshot shows the 'Maintenance' section of the Checkbot interface. It features a table with columns for 'Mnt state', 'Name', 'Operation time between', 'Overall time between', 'Last maintenance date', 'Total elapsed time', 'Maximum operation', and 'Tools'. The table lists several maintenance tasks for 'Cables' and 'Maintenance' at various intervals.

Administration

- **File management** – display list of files by type, display file contents, download files and upload JBI files.
- **User rights** – definition of own roles and assignment of roles to individual users.
- **HELP** contains the application user manual, manuals of error states of robots, and instructions for their elimination.

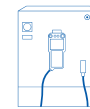
Supported controllers



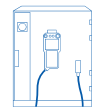
YRC1000



YRC1000 micro



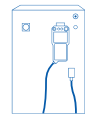
DX100



DX200



FS100



NX100

Supported database

MS SQL

H2



Checkbot in manufacturing plant Borgers CS.



checkbot.cz



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OKsystem is a company incorporated in the Commercial Register maintained by the Municipal Court in Prague, Section B, Insert 20326.