

# Program Creation and Total Engineering Support Software

RT ToolBox3

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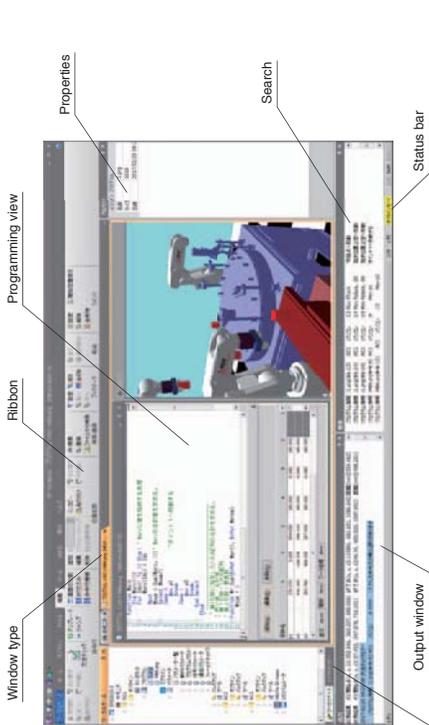
## RT ToolBox3

This is computer software to assist with a range of tasks from system startup through to debugging and operation. This includes creating and editing programs, checking the operating environment prior to robot installation, estimating cycle times, debugging when robots are started up, monitoring robots states once they are running and monitoring faults. Its features include a ribbon bar, output window and docking pane, making information easier to see and the software easier to use. Operations in the 3D monitor screen have also been updated to make using the screen more intuitive.

RT ToolBox3 mini	Simplified version. Offers programming, debugging, and monitoring functions.
RT ToolBox3	Includes simulation functions. May also be used for preliminary examinations.
RT ToolBox3 PRO	Runs on 3DCAD (SolidWorks). Allows even more realistic examinations. CAD data can also be used for path generation and operation programs.

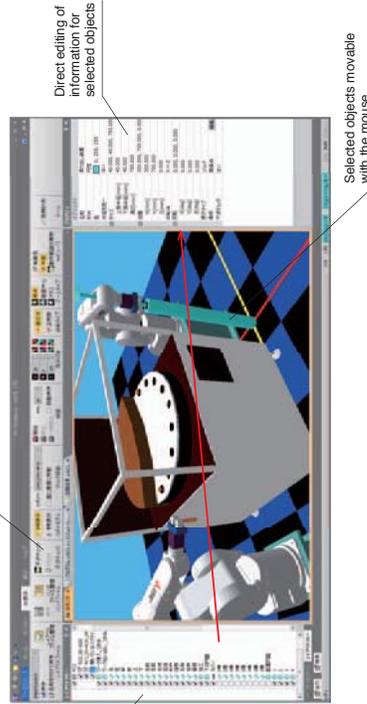
### Program editing and debugging

Auto-complete and fold functions make programming easier to use.



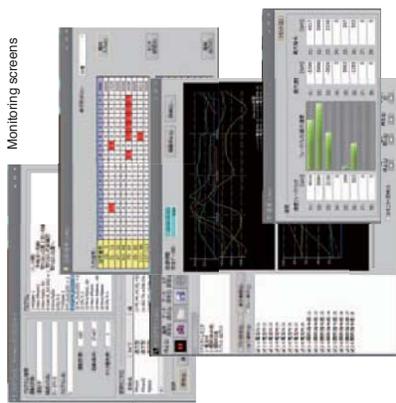
### Simulation function

Simulation that includes features such as robot dynamics and servo responses as well as robot controller emulation allows realistic simulations that include motor loading, tracking and positioning times.



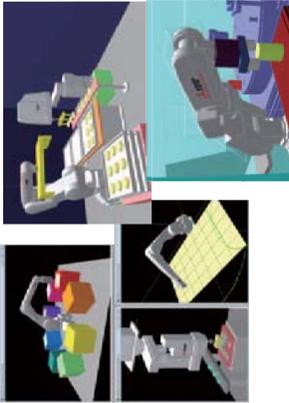
### Monitoring functions

As well as monitoring program run states, variables, input/output signals and other events, these functions can show graphs of robot operation waveforms (speeds and current values) and I/O states in real time. This makes it easy to see the correlation between program execution steps and waveform data, making debugging markedly more efficient.



### 3D viewer

The 3D viewer can be used to check the robot attitude and operation, and to visually check information such as limit values for user-defined areas, etc.



### Real time external control

Robot movement can be controlled from the computer using synchronous units.

### Melfa RXM.cox communications middleware

Allows RT ToolBox3 functions to be run from computer applications.



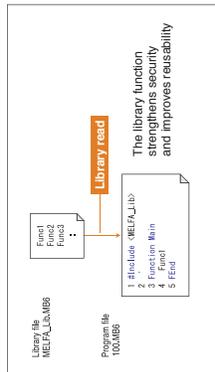
## MELFA BASIC VI

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As well as providing a more complete set of commands, this uses structured programming to give high levels of reusability and readability.

### Library function

Keeping a library of program processing allows knowledge to be accumulated and provides improved reusability. The libraries can also be hidden to prevent knowledge from being disclosed.



### Structured programming

Allows structured programs, enabling programming with high levels of reusability and readability. (Also supports existing programming methods.)

