

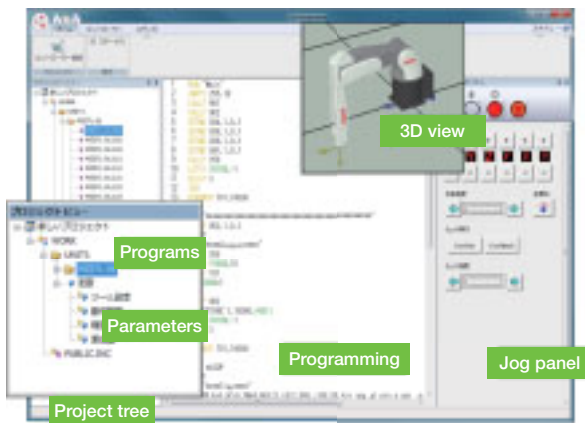
SUPPORT SOFTWARE

A number of software features are available that make the robot easier to use by having readily available access to the robot system.

Programming tool **PC-based Teaching Tool**

Standard

- Software for robot setting, programming and debugging.
 - User can manage setting and program files based on the project.
 - Exclusive editor for robot language
 - User can easily manage and input signal, position and parameter.
 - User can control the robot without teach pendant.



Offline programming tools **Robot simulator**

Options

- Excellent for initial studies for installing robots
- Can be used as an operation instruction tool

FD on Desk Regular (option)

- Offline programming
- Working envelope & layout considerations
- Cycle time simulation
- PLC programming editing

FD on Desk Pro (option)

- Create programs from CAD
- Multiple control units supported



*The MZ series now has FD on Desk Light (CFD controller only) as standard equipment. (Functions are the same as FD on Desk Regular)

User task functions

Standard

- Possible to program processes in parallel with robot operations

Application example

- Time consuming calculations and robot operations are processed in parallel to reduce cycle times
- Various statuses are shown on the screen on the teach pendant

Graphic User Interface **Flex-GUI**

Options

- Customizable teach pendant screen menu.
- Works as a system operation console which can control peripheral devices.



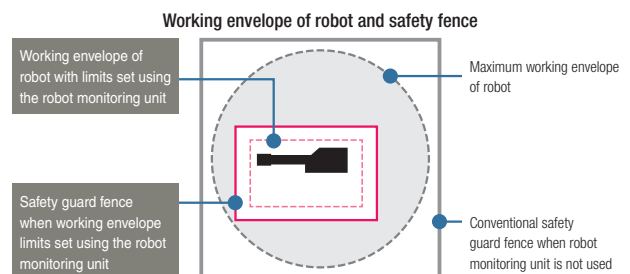
Robot Monitoring Unit **RMU**

Options

- Safety control unit monitors robot conditions (position and speed)
- Possible to reduce costs and space

Facilities are safer because the positions and speeds of robots are monitored

- Limit working envelope of robot
- Minimize size of safety fences



Supports a variety of fieldbuses

Options

- DeviceNet (master and slave)
- EtherNet/IP (master and slave)
- EtherCAT (slave)
- CC-Link (master and slave)
- PROFIBUS (master and slave)
- PROFINET (slave)

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