



MachineWorks® Software for Advanced Control

Berkeley introduces a three-tier development tool for OEMs and System Integrators to implement motion and process control systems with Berkeley's powerful BXi controllers.

MACHINEWORKS-OS — a programmable, configurable operating system

MACHINEWORKS-SERVER — an object-based, interfacing application

MACHINEWORKS-STUDIO — an integrated, PC development tool

The software forms the basis of Berkeley's unified approach to complex machine control where control, diagnostics, maintenance, testing, debugging, and calibration work in concert to provide an optimum solution. With Berkeley's MachineWorks, OEMs enjoy time-to-market advantages that are orders of magnitude greater than competing platforms.

DEVELOPMENT TOOLS

MACHINEWORKS-OS

MachineWorks-OS is the engine that provides a machine developer with all of the core functions most common to complex control applications.

- Multi-tasking and complex event scheduling
- Coordinated axis control, homing and Autotuning
- Master-slave relationships across networked controllers
- Flying position measurement
- Limit switch and I/O detection
- Prepackaged (yet extendable) system diagnostics

The considerable functionality of MachineWorks-OS enables a system to simultaneously:

- Command an axis to move a robotic arm
- Gather temperature data
- Stop a mechanical movement due to a fault
- Send data to a corporate application for efficiency analysis

Additionally, MachineWorks-OS can be programmed directly on the factory floor via the Berkeley User Interface (BUI), or for added flexibility on the PC through MachineWorks-Studio, Berkeley's

new Integrated Development Environment (IDE). Either way, developers can create and modify code in real time, without having to bring down the entire tool to make software changes.

MACHINEWORKS-SERVER

MachineWorks-Server is a collection of modular COM objects (Microsoft Component Object Model) that allow the BXi controller to easily interface with other Windows applications.

Included in this set are:

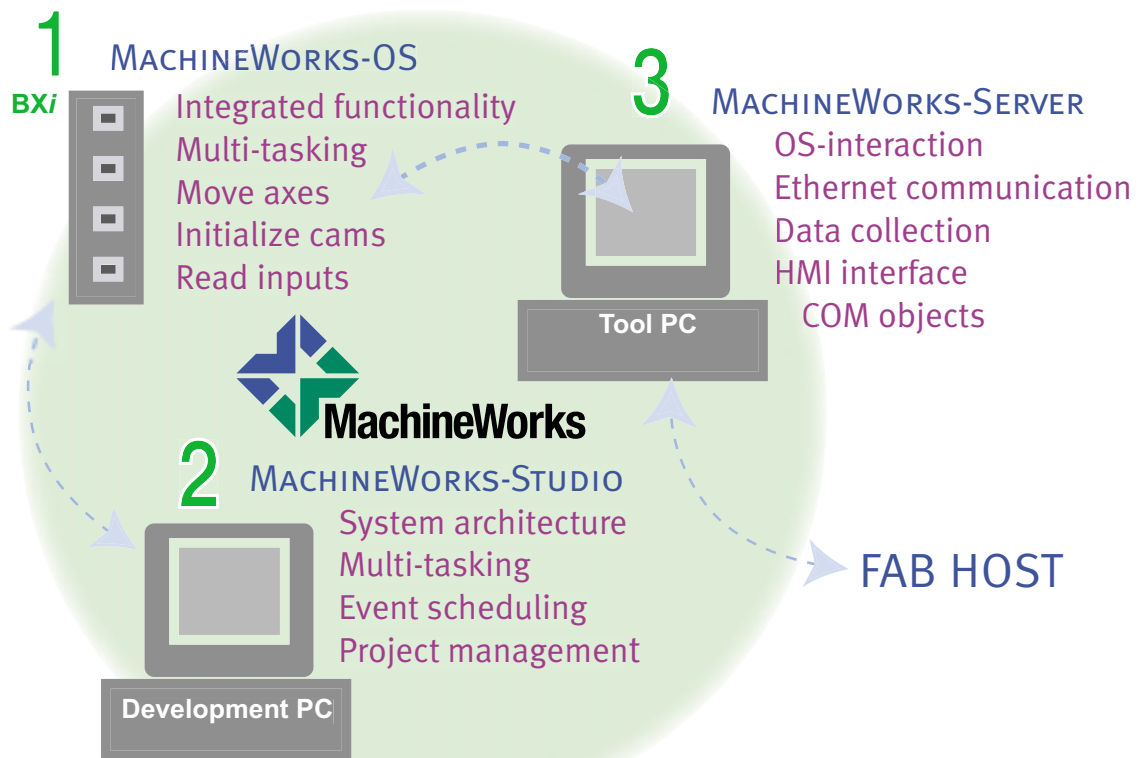
- A console window for direct access to MachineWorks-OS
- Mail and file objects for text string and file transfer transactions
- Axis and I/O data objects
- A real-time data graphing control

This simple, dependable access to all machine-state information allows developers to quickly implement all of the powerful e-Diagnostic features that end users demand.

MACHINEWORKS-STUDIO

MachineWorks-Studio, Berkeley's unique Integrated Development Environment (IDE) perfectly complements MachineWorks-OS. MachineWorks-Studio allows developers complete flexibility in complex tool design and implementation. All advanced features embedded in the Berkeley controller, such as built-in multitasking, motion commands, and complex event scheduling, are

incorporated as menu options available from an easy-to-use, Windows interface. All of the project management tools demanded by developers for complex software applications, such as template archiving and control program debugging, are available with the combination of MachineWorks and the BXi motion and machine controller.



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