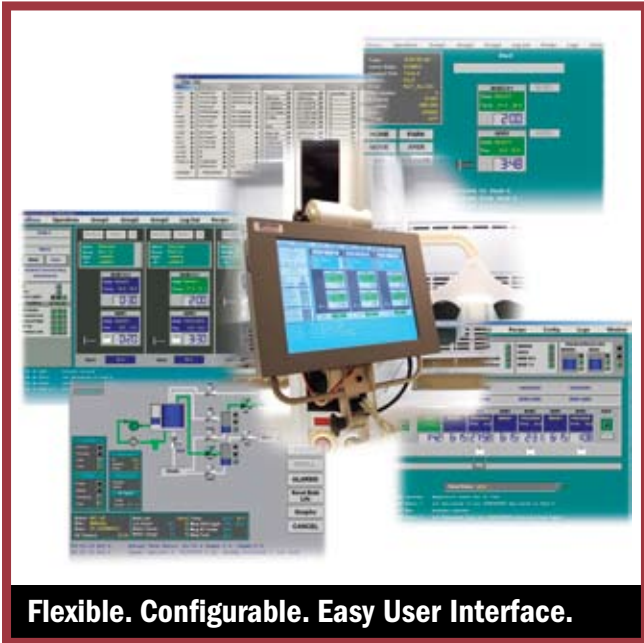




IDX Robotics Control Automation Software

SECS/GEM Compatible



Flexible. Configurable. Easy User Interface.

IDX Control Automation Software is available with all new MEI Wet Process Systems, most MEI Chemical Delivery Systems, and it can be used to upgrade other manufacturer's wet process systems

Control Software for Wet Processing Equipment and Chemical Delivery Systems

MEI's proprietary IDX control automation software is extremely flexible and ideal for many different types of equipment where sophisticated user interface capabilities are required. IDX automation motion control software is outstanding for both process and maintenance productivity.

- **Designed for Productivity**
 - Highly configurable operator interface
 - Unlimited user/permission levels with password protection
 - SECS/GEM compliant
- **Easy-to-Use, Touch Screen Interface**
 - Easy-to-setup flexible recipe programming
 - I/O monitor program that displays all I/O status
 - Runs on standard PC using Windows software
- **Configurability and Versatility**
 - Scheduler supports multiple robots
 - True multitasking operation
 - Interactive recipe and configuration editor
- **Enables Advanced Process Controls**
 - Improve process performance
 - Extend tank life
 - Reduce chemical consumption
 - Reduce chemical waste generated
- **Designed for Safety and Reliability**
- **Maintenance Operation**

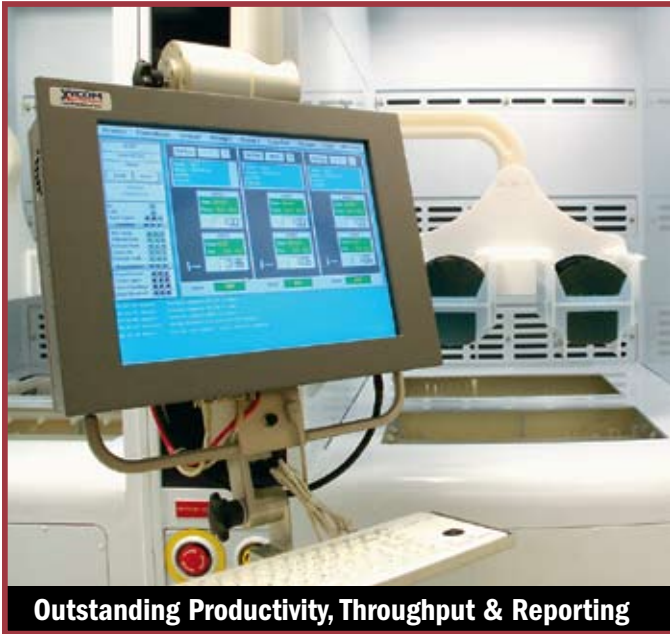
MEI Products & Services

- Wet Process Systems
- Chemical Delivery & Handling Systems
- IDX Control Automation Software
- Used Semiconductor Systems Reconditioning
- Cleanroom Safety & Ergonomic Equipment
- Field Repair & Service

MEI IDX Software is Available for Purchase and Use Under a License Agreement.

Many different OEM equipment providers utilize IDX control software on their new equipment sold within the industry. MEI's IDX Automation software is widely regarded as an outstanding application for controlling automated wet processing systems. IDX is able to streamline processes and provide unparalleled ease of use while maintaining up-time and reliability.

IDX Robotics Control Automation Software



Outstanding Productivity, Throughput & Reporting

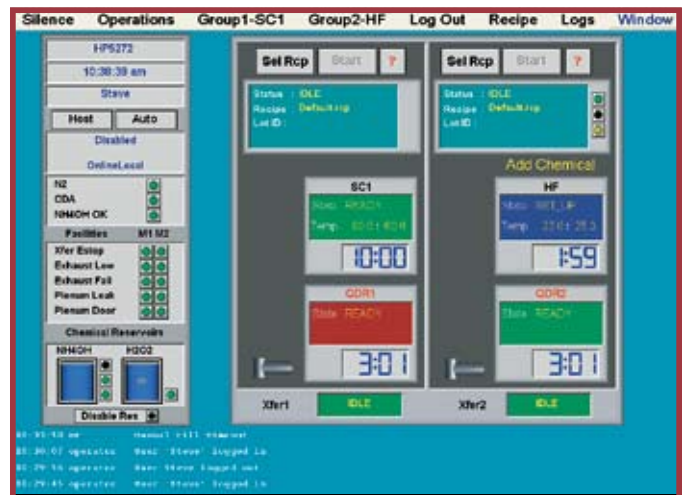
Designed for Productivity

IDX software features a scheduler that supports multiple robots (or other devices) and multiple cassettes, each of which can use a different processing recipe. Lot tracking and production reporting option is also available.

- Scheduler handles multiple robots and cassettes with multiple recipes simultaneously
- SECS /GEM compliant RS232 or HSMS driver
- Lot tracking and production reporting
- Data graphing with option that can be stored in a text file for import to spread sheet
- Compatible with barcode readers for lot ID or recipe selection
- Advanced process controls
- Simple error recovery via resume “button”
- Remote access compatible

Easy-to-Use, Color Touch Screen

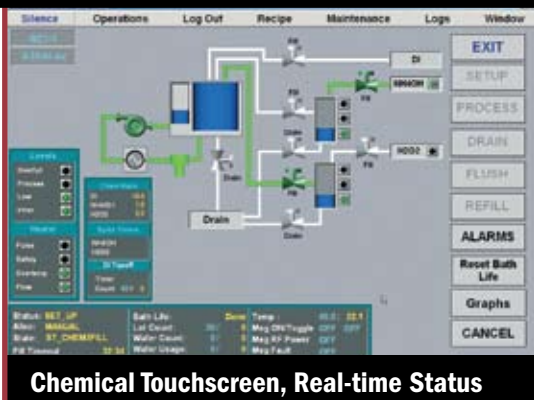
- Intuitive graphical display
- Highly configurable operator interface runs on Windows XP® or 2000 operating systems
- Interactive recipe and configuration editor for process customization
- Unlimited user/permission levels with password protection (authorization levels highly configurable)



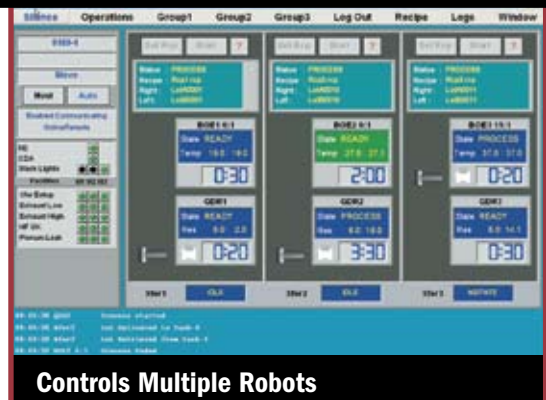
Screens Customizable for Desired Data

Designed for Safety & Reliability

- Proven use in hundreds of applications across many industries and manufacturers
- Software monitors for unsafe conditions
- Human safety, product safety and equipment safety are protected with software and hardware interlocks
- Watchdog program starts all scripts and keeps them running
- Visual and audible alarms



Chemical Touchscreen, Real-time Status



Controls Multiple Robots

IDX Robotics Control Automation Software

Versatile

IDX control automation software is used in many applications in many industries. Applications can include:

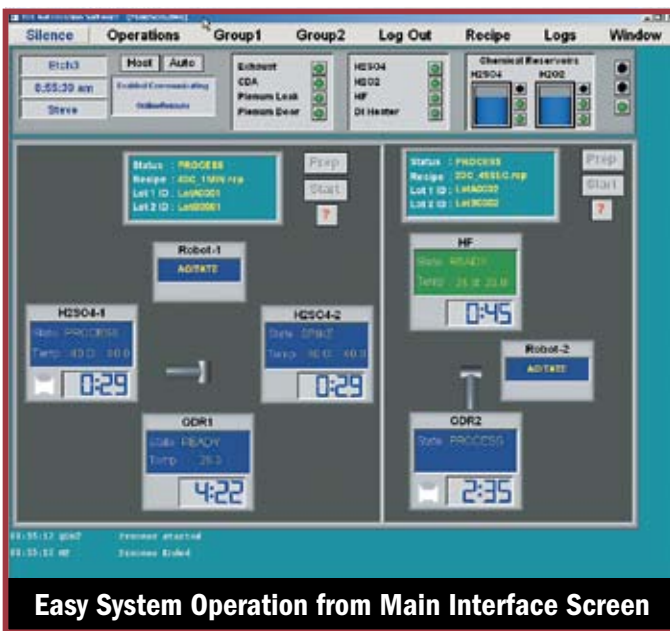
- Wet process systems used for cleaning, stripping and etching silicon wafers, solar PV wafers, MEMS wafers, and medical parts
- Bulk chemical distribution systems
- Used semiconductor equipment system retrofits and system upgrades including Akrion, Verateq, Bold, Submicron Systems, Universal Plastics, Universal Systems, Chemical Safety Technology, Ultrafab, Amerimade, BPS, ChemWest and Santa Clara Plastics systems
- Can be used with many different I/O platforms (GE, Siemens, Modicon, Omron and others)

Configurable & Flexible Software

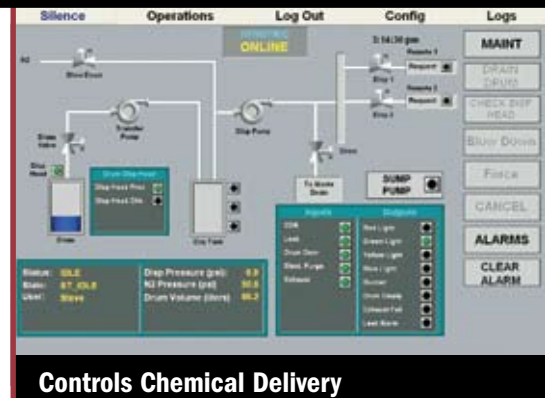
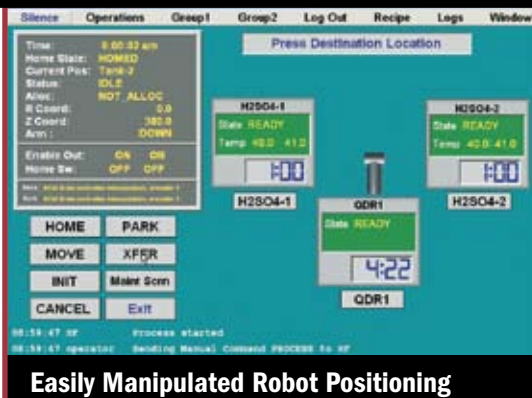
- Script language written in C++ controls all devices and can be easily configured
- Open system architecture that can be extended by mapping in additional DLLs to the script language
- Each device is controlled by a script and each script runs as a separate task
- Applications are constructed using a configurable operator interface and scripting language or by linking custom applications to its Dynamic Link Libraries (DLLs)
- Built-in drawing editor for screen editing for easier customization
- Upgrades/changes at reasonable costs

Maintenance Operation

- Robot can be manually controlled from operator interface
- Complete data logging stored in a daily log file
- Tank I/O (values/pumps/drains etc.) can be controlled individually from tank screen
- Comes with I/O monitor program that displays all I/O status and can be used to monitor inputs and force outputs
- Real-time task monitoring/viewing for problem identification and status



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 Sales Fax 541-917-0174

Advanced Process Controls

IDX Control Automation Software for Wet Process Systems Improve Performance, Yield & Lower Costs

MEI's Advanced Process Controls provide the necessary stability of process conditions through closed loop monitoring/control using software recording for all key process variables. The result is a system capable of advanced cleaning and process monitoring capabilities required for critical process steps.

Built-In Concentration Controls & Monitoring

- Improve process performance
- Extend tank life
- Reduce chemical consumption
- Reduce chemical waste generated
- Reduce cost per pattern

DI Water Injection in Semi-Aqueous Solvents

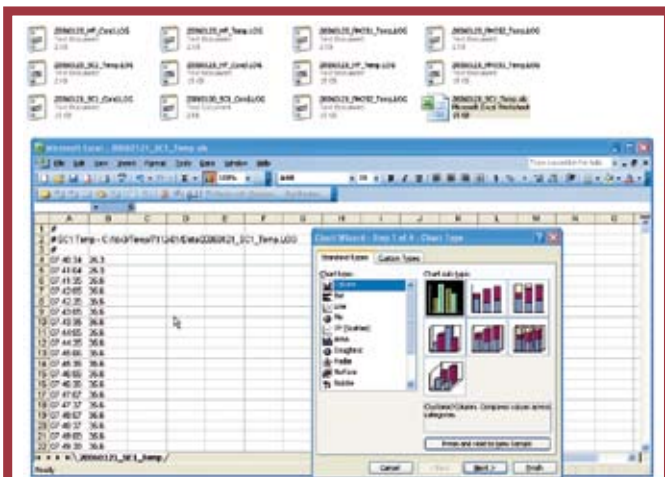
- Improve process performance
- Reduce solvent usage
- Reduce solvent waste
- Improve up-time of tool

Flow Rate Monitoring

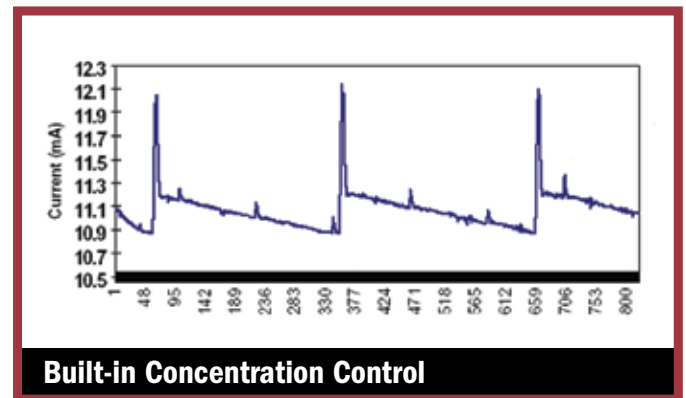
- Monitor recirculation flows
- Redundant temperature monitoring ensures critical temperature control
- Monitor spike volumes and conformation of spike activity

Analog Controls

- Analog sensors provide software controlled, ratio creation in-tank blending capabilities
- Control DI water inject
- Control temperature, recirculation flow, spiking volume
- Conductivity, resistivity, temperature and flow data are captured and stored



Analog Data Captured & Output to a Spreadsheet



Built-in Concentration Control