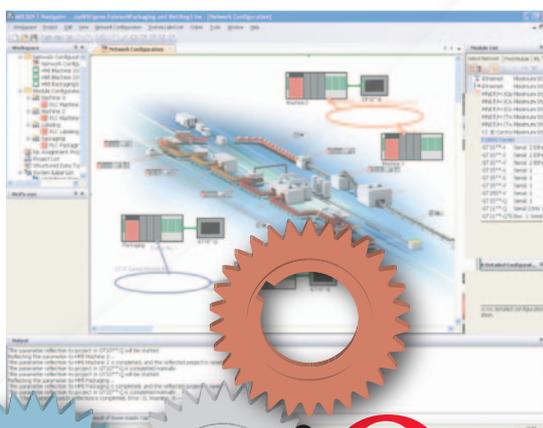


# iQ Works

## Unified Engineering Environment

### An Universal Tool

One place for all: development and maintenance



Ask for the special  
iQ Works introduction  
offer and order it now!

# MELSOFT **iQ** Works



INTEGRATED

PLC, HMI and Motion programming in one environment



EFFICIENT

Device data is defined once and shared between all system components



CONNECTED

Develop and maintain entire production lines from a single location



SIMPLE

Focus on the application, not the software

# Productivity made easy



Access, develop and maintain all production systems from a single location

## Application centered development

The iQ Automation Platform is an industry leading solution to simplify the challenge of complex, multi-discipline production systems. It offers the capability to combine PLC, motion, robot and CNC control on a single, compact hardware platform, with seamless interaction between the different control types. Hence systems are simpler to design, engineering costs are reduced, compatibility issues are eliminated and performance is increased. A key part of this solution is the ability to handle development and maintenance of this kind of system with a single tool. iQWorks is that tool; a unified engineering environment that covers all aspects of system development and maintenance, and allows it to be carried out from a single location.

## From demands to solutions

The challenge for automation engineers is to develop and maintain efficiently advanced production lines over the whole product life cycle. This is why Mitsubishi Electric developed the iQ Works software suite. From the integrated simulation tools, that help PLC and HMI integration to the PLC version control option, iQ Works brings structure and productivity to any engineering project.

## Navigate your production

Instead of having to consider multiple programs, devices, networks and settings of the application as individual, unconnected elements, the Melsoft Navigator tool brings them together in the same order and relationship as they are seen in reality.

iQ Works allows a simple user interface to be created based on a schematic diagram of the system; each part can be accessed simply by clicking on it and automatically the correct program is opened in the appropriate programming tool.

This creates an intuitive and easy-to-use environment to navigate and drill into the application.



One system, one tool

## Preserve existing knowledge

A key strength of an organization is the knowledge of its people. For engineers and technicians familiar with automation systems, iQ Works preserves their existing expertise and training investment. The Navigator simplifies the task of system organization, but for actual development and maintenance, the same familiar tools are used, but within the iQ Works environment. Hence experience with GX Works, GT Works and MT Developer is preserved and so the iQ Works learning curve is very short.

## Efficient development and maintenance

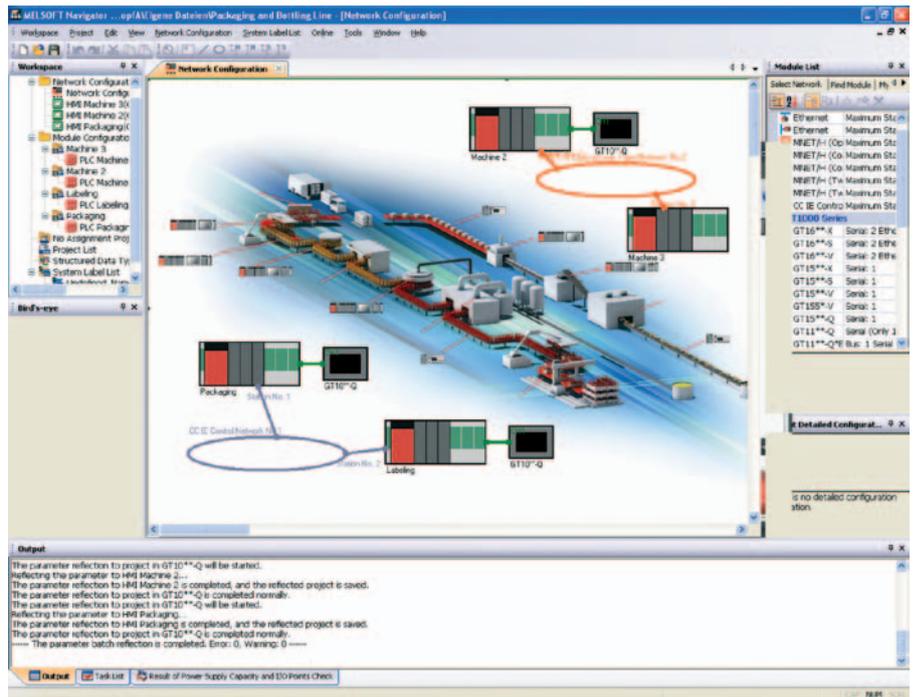
The benefits of having a single tool to cover all system areas are many. In general, the total cost of ownership (TCO) is reduced, since engineering time and therefore cost is reduced. Engineers and technicians have access to all system aspects from one place, and for large scale systems, efficiency is further increased by being able to work on an entire system from a single location.

## Easy Tag Exchange

iQ Works uses a single database for Tag exchange at its core, meaning that duplication of data and possible confusion is eliminated. Once a device is defined for a given controller, it is then available to all other parts of the system.

## Simulation

The demands of today's industry often mean development continues around the clock, in multiple locations, often in separate countries. iQ Works meets these demands with a comprehensive simulation capability. Hence development staff no longer need to have direct access to actual hardware to insure correct operation of systems. Development can continue off line with no time wasted waiting for access to production systems and no risk of damage arising from unexpected behaviour.



iQ Works provides access to all levels of the network hierarchy

## Configuration Check

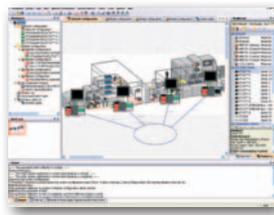
After setting up your system in iQ Works, you can let the software check for configuration mistakes and correct them.

## Built-In Diagnostics

Debugging the system after development is quick and convenient when using the built-in tools that iQ Works comes with like the system monitor to access network and hardware diagnostics.



# iQ Works Architecture ///



**MELSOFT Navigator:**  
Application centered system organization



**MELSOFT GX Works2:**  
Comprehensive PLC system development



**MELSOFT MT Works2:**  
Complete motion control design and diagnostics



**MELSOFT GT Works3:**  
Full HMI screen development



## Operating environment

Item		Contents
Peripheral	Personal computer	Windows® supported personal computer
Personal computer main body	OS (English version)	Microsoft® Windows Vista® Home Basic / Home Premium / Business / Ultimate / Enterprise Operating System Service Pack 1, 2 Microsoft® Windows® XP Professional / Home Edition, Service Pack 2 and 3 Microsoft® Windows® 2000 Professional, Service Pack 4
	CPU	For desktop PC: Intel® Celeron® processor, recommended 2.8 GHz or more For laptop PC: Intel® Pentium® M processor, recommended 1.7 GHz or more
	Required memory	Recommended 1 GB or more
Available hard disk capacity		When installing MELSOFT iQ Works: HDD available capacity is 3 GB or more. When operating MELSOFT iQ Works: Virtual memory available capacity is 512 MB or more
Disk drive		CD-ROM supported disk drive
Monitor		Resolution 1024 x 768 pixels or higher
Communication interface (CPU connected directly)		RS-232 port, USB port, Ethernet port

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Specifications subject to change /// Art. no. 238409-A /// 11.2010  
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