MITSUBISHI CNC
C80 Series

Infinite Possibilities

High productivity, usability and exibility delivered by breakthrough performance.
The C80 Series empowers the manufacturing industry
with unlimited possibilities and the capability to create innovative value.

The Best Partner for Your Success

Revolutionary, next-generation CNC opens a
new era of production lines
through the compatibility with MELSEC iQ-R Series

C80 Series enables production line system to increase its added value and reduce its Total Cost of Ownership (TCO) through the five features (productivity, ease of use, connectivity, functional safety and reliability).

Productivity

Mitsubishi Electric's original CNC-dedicated CPU provides a major leap in basic performance.
A shorter cycle time is achieved through ultrahigh-speed communication between CNC CPU and PLC CPU, improved communication capability between CNC and drive, and increased servo and spindle control speed.
Configured with up to 3 CPUs (21 part systems and 48 axes), C80 is capable of controlling complex machines.

High-speed data communication

High-speed system bus communication

Up to 48 axes in total for 3 CPUs

New drive units MDS-E/EH Series

New servo motors HG/HG-H Series

Spindles
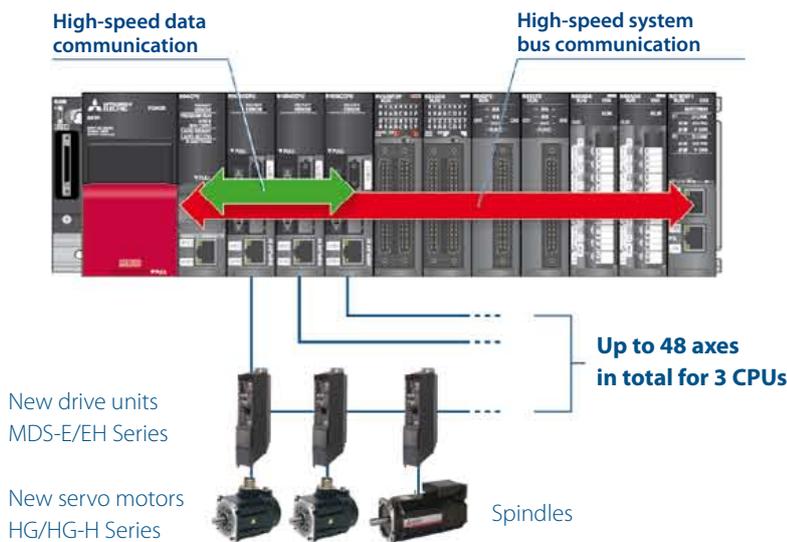
PLC process capability (PCMIX value)

C80   419   7 times higher than C70
C70   60

High processing capability of the PLC enables large-scale ladder logic to be processed at high speed.

CNC-to-drive communication capability

C80   3 times   3 times higher than C70
C70   1 time

Optical communication speed between CNC and drive has been increased. This improves the system responsiveness, leading to more accurate machining.

Ease of use

CNC screen provides intuitive and easy-to-use operation. The display terminal is the latest GOT2000 Series.

Guidance feature added

Touchscreen display allows you to select what to edit directly
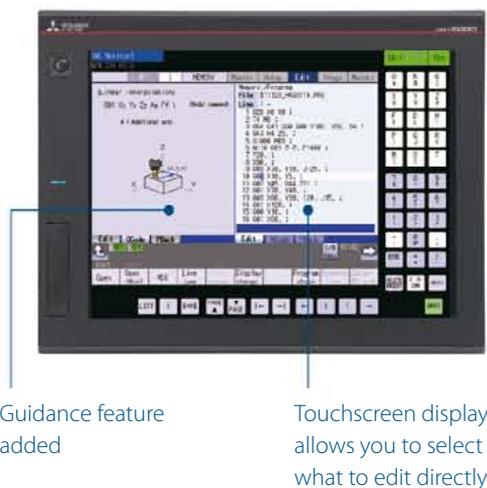
Connectivity

C80 supports the FA integration solution, e-F@ctory, which enables the visualization of production, energy consumption and safety. Supporting the FA integration platform, iQ Platform, which forms the foundation of e-F@ctory, Mitsubishi CNC C80 allows our customers to reduce their costs in every phase of the process, from development and manufacturing to maintenance.

e-F@ctory

Enterprise Resource Planning (ERP)
Manufacturing Execution System (MES)

ERP
MES
Automation Controller
Integrated Network
Integrated Engineering

Transparent connectivity

Controller (C80) & HMI (GOT)
Network (CC-Link/IE)
Engineering
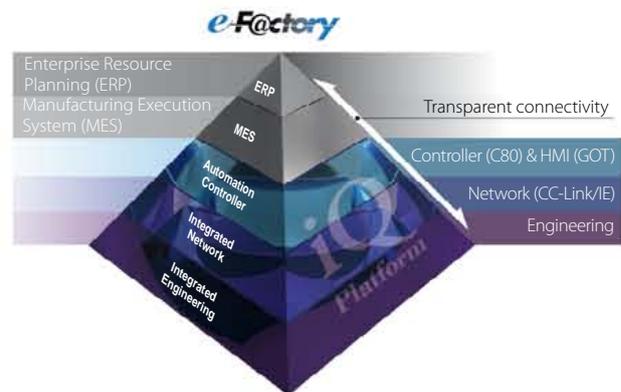
Safety observation

C80 Series provides a range of safety features collectively called the Smart Safety Observation Function. This function has achieved full conformity with the safety standards that cover the entire system including CNC, drive, sensors and communication.

Reliability

New drive unit MDS-E/EH Series allows you to monitor the motor insulation deterioration.

Global Partner. Local Friend

⚠ Safety Warning
To ensure proper use of the products listed in this catalog, please be sure to read the instriction manual prior to use.

Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO 14001 (standards for environmental management systems) and ISO9001 (standarts for quality assurance management systems)

ISO 14001
JACO
AND CERTIFICATION ORGANIZATION FOR ENVIRONMENT AND QUALITY • JAPAN AUDIT
EC97J1113

UKAS MANAGEMENT SYSTEMS
051

ISO 9001
BUREAU VERITAS
Certification

BUREAU VERITAS
1828

UKAS MANAGEMENT SYSTEMS
008
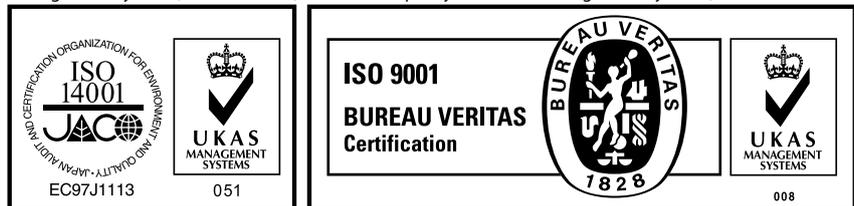
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