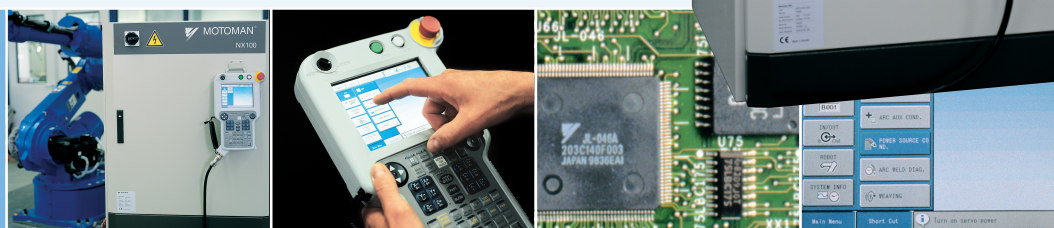
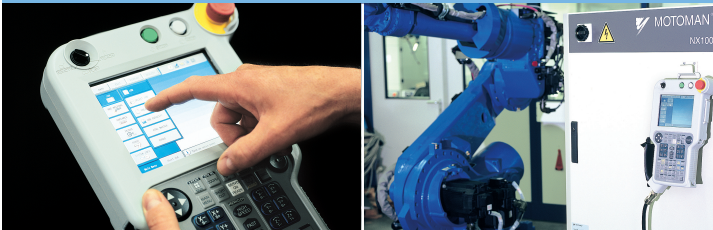


Industrial robot controller MOTOMAN-NX100



YASKAWA
MOTOMAN

High performance controller NX100 for all MOTOMAN-Robots



Programming pendant (PHG) ergonomical, light and easy

6,5" LCD colourdisplay

Touch screen

Windows operating system

Operation keys start/stop emergency off



Cursor key

Flash card slot

3 position dead man switch (Rear side not visible)

Display can be individually set for each application

- Easy and fast programming
- Several user levels – from operation to maintenance
- Help function

Multi-Robot-Synchronization function

Real time synchronization of up to four robots and external axes (max. 36 axes)

- Jigless working possible
- Enables high density robot layouts
- Reduced cycle time

Advanced-Robot-Motion function (ARM)

Dynamic calculation of robot axis torque and load

- High performance path accuracy
- Optimized robot motion and speed
- Vibration control
- Highly sensitive collision detection

Communication features

Built-in Ethernet, Web (ftp, opc) server options and fieldbus support of the 15 most common brands on the market

- Easy to connect to existing networks
- Remote monitoring and diagnosis of robot systems

Further features

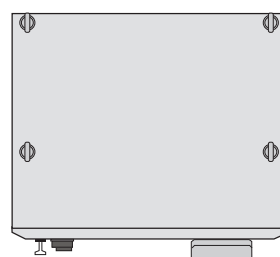
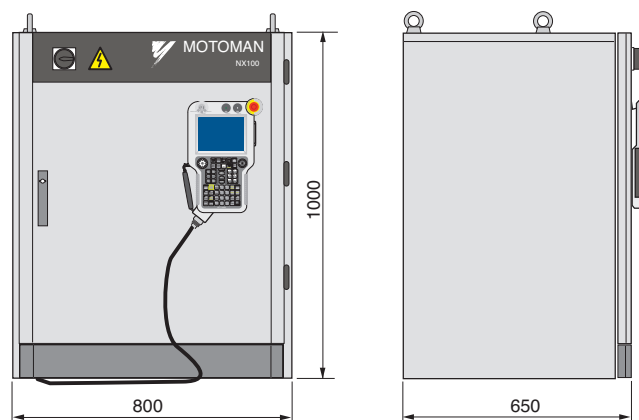
- Multitasking
- Internal SPS
- High performance by industrial PC
- Boot time max. 40 sec
- MTTR (Mean Time To Repair): < 5 min.
- Automatic zero calibration



Modular control panel system for additional robots and axes

Control cabinet

Dimensions	800 (W) x 1000 (H) x 650 (D)
Weight	Approx. 170 kg
Protection class	IP54
Cooling system	Indirect cooling
Ambient temperature	0° to +45°C (operation) -10° to +60°C (transport and storage)
Relative humidity	Max. 90% non-condensating
Power supply	3-phase 400/415/440 VAC at 50/60 Hz
Digital I/O	40 inputs/40 outputs (standard) (Expandable to 1024 inputs/1024 outputs)
Analogue in/outputs	40 channels (optional)
Positioning system	Absolute encoder / serial interface
Program memory	60.000 steps, 10.000 instructions and 10.000 PLC steps
Interface	RS-232C, Ethernet



Notice

- These dimensions are for reference purposes only. Please request detailed drawings for all design/engineering requirements, at robotics@yaskawa.eu.com.
- All dimensions in mm

Maintenance

Functions	System monitor, internal maintenance clocks (e.g. Servo power-on time)
Self-diagnosis	Classifies errors and major/minor alarms and displays the data
User alarm display	Alarm messages for peripheral devices
Alarm display	Alarm messages and alarm history
I/O diagnosis	Simulated enable/disable outputs
TCP calibration	Automatic calibration of TCP (Tool Center Point)

Programming pendant

Dimensions	200 (W) x 340 (H) x 60 (D)
Touchscreen display	6.5" colour LCD (640x480 pixels)
Weight	1,3 kg
Coordinate system	Joint, Rectangular/cylindrical, Tool, User-coordinates
Speed adjustment	Fine adjustment possible during operation or teach mode
Shortcuts	Direct access keys and user selectable screen keys possible
Language	Mostly spoken languages available (worldwide)
Interface	Compact Flash card slot
Operating system	Windows CE

Safety features

Specifications	Dual-channel safety system (Emergency stop, safety interlock), 3-position Dead-man's switch, European safety standard (ISO10218)
Collision avoidance	Collision avoidance zones and radial interference zones
Collision detection	Monitors robot axes' torque levels
Machine lock	Test-run peripheral device without robot motion possible

Programming

Programming language	INFORM III
Robot motion control	Joint motion, linear, circular, spline interpolation
Speed adjustment	Joint motion (% of maximum) Interpolation (mm/sec; cm/min; inch/min) Angular velocity (°/sec)

YASKAWA offices and representatives near to you

YASKAWA Electric Corporation

JP 2-1, Kurosaki-shiroishi
Yahatanishi-ku
Kitakyushu-shi 806-0004
+093-645-8801

YASKAWA Group

A YASKAWA Austria
Schwechat/Wien +43(0)1-707-9324-15
CZ YASKAWA Czech s.r.o.
Rudná u Prahy +420-257-941-718
D YASKAWA Europe GmbH
Robotics Division
Allershausen +49-8166-90-0
YASKAWA Europe GmbH
Headquarter
Eschborn +49-6196-77725-0
DK YASKAWA Nordic AB
Lösning +45-7022-2477
E YASKAWA Portugal
Aveiro +351-234-943900
F YASKAWA France SARL
Saint-Aignan-de-Grand-Lieu
+33-2-40131919
FIN YASKAWA Finland Oy
Turku +358-(0)-403000600
GB YASKAWA UK Ltd.
Banbury +44-1295-272755
I YASKAWA Italia s.r.l.
Torino +39-011-9005833
IL YASKAWA Europe Technology Ltd.
Rosh Ha'ayin +972-3-9004114
NL YASKAWA Benelux B.V.
EB Son +31-40-2895500
P YASKAWA Iberica S.L.
Sant Bol de Llobregat +34-93-6303478
RUS YASKAWA Nordic AB
Moskva +46-480-417-800
SE YASKAWA Nordic AB
Torsås +46-480-417-800
SI YASKAWA Slovenia
Ribnica +386-1-8372-410

Distributors

BG Kammarton Bulgaria Ltd.
Sofia +359-02-926-6060
CH Messer Eutectic Castolin Switzerland S.A.
Dällikon +41-44-847-17-17
EE RKR Seadmed OÜ
Tallinn/Estonia +372 68 35 235
GR Gizelis Robotics
Nea Kifissia +30-2106251455
H Flexman Robotics Kft
Budapest +36-30-9510065
Rehm Hegesztéstechnika Kft
Budapest +36-53-380-078
N Optimove as
Lierstranda +47-32240600
PL Integrator RHC Sp. z o.o.
Torun +48-56-6519710
TR Teknodrom Robotik
Otomasyon San.Tic.Ltd.pti
Gebze/Kocaeli +90-262-678-88-18
ZA Robotic Systems SA PTY Ltd
Johannesburg +27-11-6083182



Headquarters YASKAWA Europe GmbH
Robotics Kammerfeldstraße 1
Division D-85391 Allershausen
Fon 0049 - 81 66 - 90 - 0
Fax 0049 - 81 66 - 90 - 103

YASKAWA Academy and
sales office Frankfurt YASKAWA Europe GmbH
Robotics Division
Hauptstraße 185
D-65760 Eschborn
Fon 0049 - 61 96 - 777 25 - 0
Fax 0049 - 61 96 - 777 25 - 39

www.yaskawa.eu.com
robotics@yaskawa.eu.com

