

# MITSUBISHI

*Changes for the Better*

Mitsubishi Industrial Sewing Machine AC Servo

## LIMISERVO X

### **G** Series



*Automation  
Technology*  
BY MITSUBISHI  
ELECTRIC



# New Mitsubishi LIMISERVO **G** Series!

Compact, lightweight motor with complete range of convenient functions!

## Motor Size and Weight Reduction

### Realization of Compact, Lightweight Motor

Motor size reduced by approximately 60% when compared with previous sizes (M-554). Motor weight reduced by approximately 1/3.

## Enhanced Functionality

### Step Sequence Function

- This function enables easy programming of the desired logic, inputs and processing operations in sequence with the following modes. (Extensive upgrade of existing machine simple sequence mode)
- Basic operations can be programmed for the following conditions (Refer to page 10).



(Note: Condition settings are possible with machine connecting.)

### Direct Parameter No. Call-up Function

Previously, it was necessary to select the respective motor to perform settings when making changes to the parameters. Now, by adding the G-C or G-SL control panel, it is now possible to call up the required parameter in a single operation. It is also possible to call up parameters by each mode.



(Example) Changing parameter "AT" call-up No. "32" from list.

## User-Friendly Functions

### Computer Interface Standard Equipment

- Settings data control including both setting, reading and saving of settings can be performed using the simple software (XCG.SET).
- Step sequence creation, editing, etc. can be performed using the dedicated step sequence software (XCG.STEP).

## Multi-Function, Interchangeability

### Full Functionality

- The G Series shares all the capability and full functionality of the XG-F Series. The control box uses the same connectors as the XG-F Series, making your life easier.
- The settings data save function has been expanded to include saving of settings data from 1 mode to 2 modes.
- A parameter change difference display has been added. (Filtering dot (·) displayed at the changed parameter.)
- Types of function setting can now be performed with a single input.



### Interchangeability

The XG-FC-01P sensor, XG-FM-2, XG-FM-3 (L/S), (330rpm) and LE-FA pressure loss filter units, and XG-CV2-3 variable speed control can all be used as is. The XG-354 motor can be used with an optional attachment bracket.

### Control Panel

XG-F10 and XG-CV2 Series control panels are available. The setting operation panel can be attached to and removed from the XG-F10 Series control panel. Six board improvements have been made to the operability of the XG-F10 Series control panel over existing technology (FC-200), and the settings loss recovery has been enhanced.

## Options

Control panel	XC-0100 control panel (with remote start) XC-0101 XC-0102	↑ Increases to use 3 options ↓
Anti-stress box (Motor)	XC-PM-0 : Electro-magnetic horn (24V) XC-PM-1 : 120 - 180 mV XC-PM-2 : 120 - 180 mV / 24V (V)	
Vehicle communication	XC-SC-0 : 2-speed pedal operating function	
Locking kit (operator type)	XC-CL-1 (ET) : Fixed lock function (interlocks) (with remote start kit) XC-CL-2 (SE) : Fixed lock function (interlocks) (with remote start kit)	
Extension cable	1.0m extension cable (200V) : K14M01100001 3.0m extension cable : K14M01100002 1.0m extension cable : K14M01100003	
Installation kit	How-to book (with remote start kit) : K14M01100001 DIP switch unit (with remote start kit) : K14M01100002	



## Motor, Control Box Models

### Control Box

Model	Output	Power supply Phase / Voltage	Features
XC-GBF-1500	3000W	Single phase / 200-240V	For (optional) loading with third terminal block for long low-voltage power distribution and connecting equipment with the machine. (with inspection and remote communication function) (with connector is connector). Equipped with 3 universal distribution 2 terminal magnetic contact outputs (1 speed signal output and 14) (16) terminals housing a variable voltage relay.
XC-GBF-15100	1500W	Single phase / 200-240V	

### Motor

Model	Power supply Phase / Voltage	Output	Speed shift
XC-GBS4-10	Single phase / 100-120V	350W	Forward shift
XC-GBS4-7	Three phase / 200-240V	350W	Forward shift

Note: Please refer to the inspection manual for details of the control panel.

## Support for Each Machine

Compatibility Settings Table for Adapted Machines

	Adapted Machine	XC-2ME
Function Status	Lock matching	ON
	Overlock	ON
	Chain switching	OFF
	Close switching	OFF
	Auto-switching	OFF

ON: enable operation function, OFF: disable operation function

### Control Panel Compatibility



