

Mitsubishi Industrial Sewing Machine AC Servo

# LIMISERVO X G Series



# New Mitsubishi LIMISERVO G Series!

Compact, lightweight motor with complete range of convenient functions!

## Motor Size and Weight Reduction

### Realization of Compact, Lightweight Motor

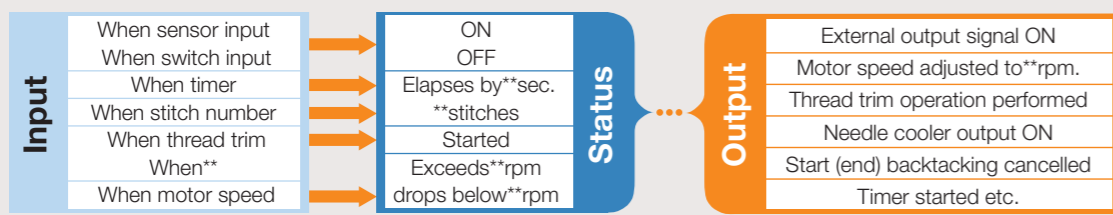
Motor size reduced by approximately 60% when compared with previous motor (XL-554).  
Motor weight reduced by approximately 1.7kg.



## Enhanced Functionality

### Step Sequence Function

- This function enables easy programming of the desired input, output and machining operations in sequence with the stitching process. (Extensive upgrade of existing machine simple sequence mode)
- Various operations can now be incorporated into the "stitching process", including those performed before and after operation.



(Note: Condition settings also possible with multiple combining.)

### Direct Parameter No. Call-up Function

Previously it was necessary to select the respective mode to perform settings when making changes to the parameters, however, by using the G10 or G500-Y control panel, it is now possible to call up the required parameter in a single operation. It is also possible to call up parameters for each mode.



[Ex.] Checking parameter "AT" call-up No. "33" from list.

## User-Friendly Functions

### Computer Interface Standard Equipment

- Settings data control including batch writing, reading and saving of settings can be performed using the setup 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 retains all the operability and multi-functionality of the XC-F Series! The control box uses the same connectors as the XC-F Series, enabling easy connection.
- The settings data save function has been expanded to enable saving of settings data from 1 model to 2 models.
- A parameter change difference display has been added. (A flashing dot (.) displays at the changed parameter.)
- 2 types of function setting can now be performed with a single input.



### Interchangeability

The XC-KE-01P detector, XC-FM-2, and LE-FA presser foot lifter units, and XC-CVS-3 variable speed pedal can all be used as is. The XL-554 motor can be used with an optional attachment bracket.

### Control Panel

XC-G10 and XC-G500-Y Series control panels are available. The existing operation panel can be attached to and removed from the XC-G10 Series control panel. Significant enhancements have been made to the operability of the XC-G500-Y Series control panel over existing functionality (XC-E500-Y), and the settings data memory has been doubled.

## Options

|                               |  |                                   |
|-------------------------------|--|-----------------------------------|
| Control panel                 | XC-G10S (control box attachment type)<br>XC-G10L<br>XC-G500-Y  | } (Impossible to use it together) |
| Auto presser foot lifter unit | XC-FM-2: Electromagnetic type (24V)<br>LE-FA: Air type (shared30V / 24Vuse)  |                                   |
| Variable speed pedal          | XC-CVS-3: 3-speed pedal, standing machine  |                                   |
| Lever unit (separated type)   | XC-GL-1-SET: 1-step kick-back use (installation plate, extension cable set)<br>XC-GL-2-SET: 2-step kick-back use (installation plate, extension cable set) |                                   |
| Extension cables              | 1.0m motor cable (200V) : M97318099  |                                   |
|                               | 0.6m detector cable : K14M71324830   |                                   |
|                               | 1.0m encoder cable : K14M71725402  |                                   |
| Installation metal fittings   | New motor and old control box: K14M72354001  |                                   |
|                               | Old motor and new control box: K14M72354101  |                                   |



XC-FM-2



XC-CVS-3



LE-FA



XC-GL-2

## Motor, Control Box Models

### Control Box

| Model              | Output | Power supply          |             | Functions   |
|--------------------|--------|-----------------------|-------------|---|
|                    |        | Phase                 | Voltage     |   |
| XC-GMFY-10-05      | 550W   | Single-phase          | 100 to 120V | Full functionality including auto thread trimming, presser foot lifting, fixed-stitch stitching, continuous stitching and backtacking. Equipped with step sequence, simple sequence and computer communication functions (when connected to control panel). Equipped with 8 solenoid drive outputs, 2 electromagnetic valve outputs, 1 small-signal output and 14 input terminals including a variable voltage input. |
| XC-GMFYCE-20-05 *1 | 550W   | Single-phase          | 200 to 240V |   |
| XC-GMFY-20-05      | 550W   | Three/single-phase *2 | 200 to 240V |   |
| XC-GMFY-20-07      | 750W   | Three/single-phase *2 | 200 to 240V |   |

### Motor

| Model         | Power supply          |             | Output | Tapered shaft |
|---------------|-----------------------|-------------|--------|---------------|
|               | Phase                 | Voltage     |        |               |
| XL-G554-10(Y) | Single-phase          | 100 to 120V | 550W   | Tapered shaft |
| XL-G554-20(Y) | Three/single-phase *2 | 200 to 240V | 550W   | Tapered shaft |
| XL-G754-20(Y) | Three/single-phase *2 | 200 to 240V | 750W   | Tapered shaft |

\*1: Type [XC-GMFYCE] is CE marking type.

\*2: Please refer to the instruction manual for details of the connection method.

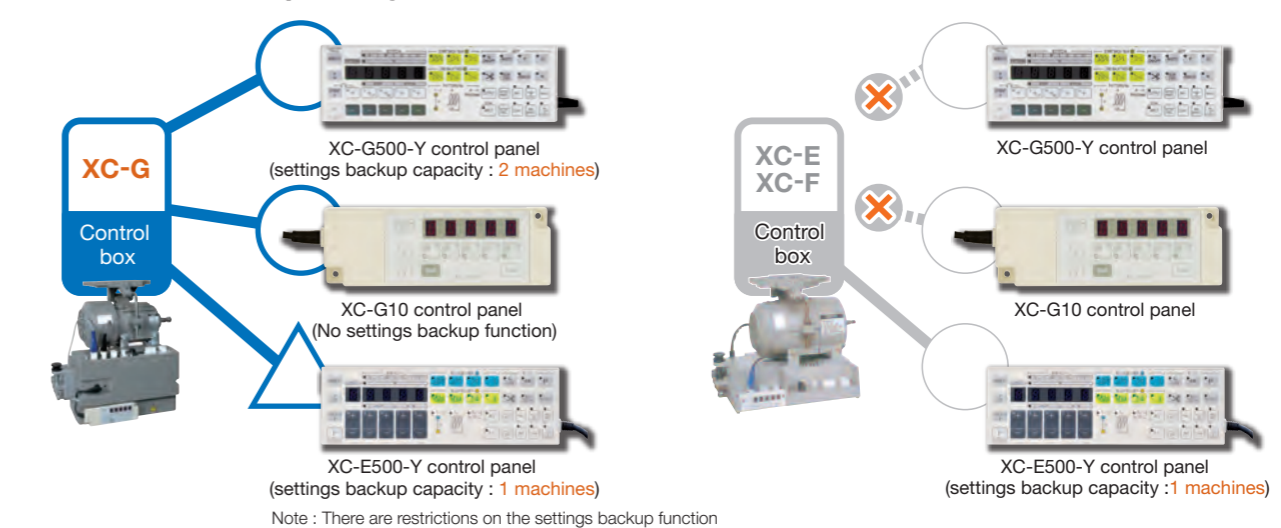
## Support for Each Machine

Compatibility Settings Table for Adapted Machines

| Function/Model  | Adapted Machine | XC-GMFY |
|-----------------|-----------------|---------|
|                 | Lock stitching  |         |
| Overlock        |                 | ○       |
| Chain stitching |                 | ○       |
| Cross stitching |                 | ○       |
| Whipstitching   |                 | ○       |

○ : Needle positioner function ◎ : Thread trim function

## Control Panel Compatibility



Note : There are restrictions on the settings backup function

