

CONTROL BOX / SERVOMOTOR SC-500 / M50

M50 (AC servomotor)



SC-500 (control box)

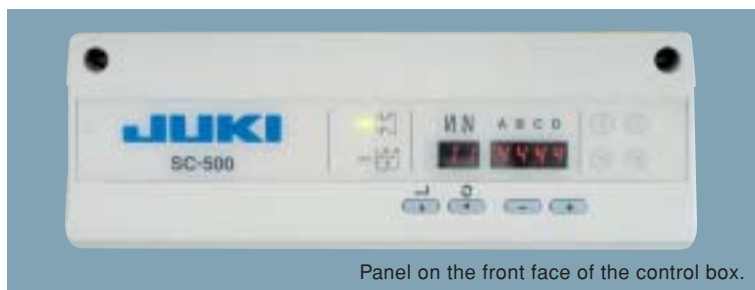
The standard-type control box / servomotor, in which JUKI's sewing-machine control technology and know-how have developed over years are embodied, offers outstanding functions, upgraded performance and increased reliability.

AC servomotor M50

- The M50, servomotor offering an output of 550W, has been adopted to demonstrate sufficient torque performance.

Control box SC-500

- With the SC-500 control box, automatic reverse stitching and overlapped stitching can be set and the ED-2 optional material edge sensor and the AE-4 optional remaining bobbin thread detector can be selected on the control panel, which is mounted on the front of the box, without the need for an operation panel.



Panel on the front face of the control box.

- The number of revolutions can be selected from among three different types (standard, slow and fast) according to the preference of the operator. In addition to this feature, the control box incorporates many different functions for upgraded workability.
- The CP-160 operation panel can be used as an option.

Operation panel (option)



CP-160

- Available functions are further increased and operability is improved by installing a CP-160.
- Pattern sewing can be performed by the number of stitch control feature.
- Four different kinds of pattern sewing are possible: automatic reverse stitching, constant-dimension sewing, rectangle-shape sewing, and multi-layer stitching. The maximum number of stitches that can be set for automatic reverse stitching (single or double) is 19.
- The CP-160 has been provided with a bobbin thread counter.

SPECIFICATIONS

Model name	SC-500/M50
Motor type	AC servomotor
Motor output	550W
Power requirement	Single-phase 100~120V, 200~240V 3-phase 200~240V
Power consumption	It depends on the operating conditions and installed machine head.

APPLICABLE MODEL

1-needle, Lockstitch Machine	DDL-5550N-7 DDL-8700-7
2-needle, Lockstitch Machine	LH-3100 Series
1-needle, Lockstitch, Zigzag Stitching Machine	LZ-2284N-7
Overlock/Safety Stitch Machine	MO-6000 Series
Coverstitch Machine	MF-7700/UT33
	MF-7800/UT25

OPTIONS

Model	Part No.	Description	Feature
AK85	—	Auto-lifter	For DDL-5550N-7, DDL-8700-7
AK83	—	Auto-lifter	For LZ-2284N-7
AK89	—	Auto-lifter	For LH-3100 Series
AE-4*	GAE-040000A0	Remaining bobbin thread detector	When the amount of remaining bobbin thread reaches the setting, the buzzer will sound to warn the operator not to press on the front part of the foot pedal. With this function, the operator doesn't have to look away from the sewing work to check the bobbin thread.
ED-2*	—	Material edge sensor	When the sensor detects a material edge, it immediately stops the sewing machine and actuates the thread trimmer. This enhances productivity by allowing the operator to conduct sewing work without running to look out for missing stitches.

*To retrofit the AE-4 and ED-2 to your existing machine, I/O unit A (part number: M9701-461-0A0), which is separately available, is required.

WHEN YOU PLACE ORDERS

Please note when placing orders, that the model name should be written as follows:

■ PSC box

SC500 F

PSC box				Code
For JUS(LA)*1	Single-phase	100~120V	PFL	S*2
For JUS*1, General Export	3-phase	200~240V	PFL	D
For General Export	Single-phase	200~240V	PFL	K
For CE	Single-phase	200~240V	PFL	N
For China	Single-phase	200~240V	PFL	U

*1 JUS: North America and Central and South America.
*2 Code S: "D" type servomotor M50 should be selected.

Control box	Code
DDL-5550N-7	F
DDL-8700-7	
MF-7700/UT33*3	
MF-7800/UT25*3	
MO-6000 Series*4	
LZ-2284N-7	
LH-3100-7 Series	

*3 The maximum sewing speed is less than 5,500rpm.
Select SC-510/M51 for machines destined for the North America and South and Central America.

*4 The maximum sewing speed is less than 7,000rpm.

■ Operation panel (option)

Applicable model	Operation panel	Code
DDL-5550N-7	CP-160A	CP160A
DDL-8700-7		
LZ-2284N-7	CP-160B	CP160B
LH-3100-7 Series		

■ Motor for SC

M50 Q41

Power supply	Code
Single-phase 200~240V	K
3-phase 200~240V	D

Pulley belt			Code
Applicable model	Motor pulley O.D.(mm)	Belt length (inch)	
DDL-5550N-7	110	41	Q41
DDL-8700-7			
MF-7700/UT33*			
MF-7800/UT25*			
MO-6000 Series			
LZ-2280N-7 Series			
LH-3100-7 Series			

*For the MF-7700 and -7800 models, the belt supplied with the machine head should be used.

● To order, please contact your nearest JUKI distributor.

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* Specifications and appearance are subject to change without prior notice for improvement.
* Read the instruction manual before putting the machine into service to ensure safety.
* This catalog is printed on recycle paper.



JUKI CORPORATION HEAD OFFICE

The environmental management system to promote and conduct
① the technological and technical research, the development and design of the products in which the environmental impact is considered.
② the conservation of the energy and resources, and the recycling, in the research, development, design, distribution, sale and maintenance service of the industrial sewing machines, household sewing machines and industrial-use robots, etc. and in the purchase, distribution and sale of the household commodities including the healthcare products.