

Servo Motor User Manual (Belt-Drive) V3.9

1. Operation

		Quick Operation ◇ RPM : Press to increase Press to decrease ◇ Direction : Hold until rotation cursors reverse.
Style 1	Style 2	
		Quick Operation ◇ RPM : Press to increase Press to decrease ◇ Direction : Press [B] to switch ◇ Needle Position : Press [A] to switch [Close/Up/Down]
Style 3	Style 4	

- After power on, the rotation cursors will be displayed. When enter Parameter set mode, it display parameter index or value. After setting parameter, it will back to show rotation cursors automatically.
- If the parameter N.4 set to 'ON' , a 'P' will display at left.

2. Display Characters Table

Number	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
Character	A	R	B	b	C	C	D	d	E	E	F	F	G	G	H	H	I	I	J	J
	K	E	L	L	M	n	N	n	O	O	P	P	Q	Q	R	r	S	4	T	r
	U	U	V	U	W	H	X		Y	P	Z	≡								

3. Test Function

Press until display 'T' during power on, then press to switch the index.

No.	Item	Method
A	Pedal	> Press pedal, from back to front, it will be shown: B, S, L, 1~9. > Press '+' '-' together until display 'AG' ,enter auto run.
B	Synchronizer	Turn the hand wheel, display [B-] to [B1] when signal detected.
C	Motor Hall	Rotate motor to display hall value, 'E' indicate fault state.

4. How to Set Parameter

No.	Description
1	Hold until display ' N.0'
2	Press to increase index

3	Press to show the value
4	Press or to edit the value, then wait for return

5. Parameter Table

No.	Description
N.1	Startup speed. Speed = value x 10 (rpm)
N.2	Max speed. Speed = value x 100 (rpm)
N.3	Needle stop position. 0: down; 1:up
N.4	Synchronizer function. OF: close, ON: open
N.5	Motor reverse rotation. OF: close, ON: open
N.8	Braking intensity level. 0: Close,1~4 ,
N.9	Up position adjustment
N.A	Down position adjustment
N.D	Synchronizer type. 1: start pos,2: motor signal,3: extern signal

6. Special Parameter

No.	Description
C.1	Parameter lock. ON: Lock, OF: Unlock
C.2	Motor type.
C.3	Pedal mode. 0~4: Increase speed faster; 5: Direct MAX speed.
C.4	Software version.
C.5	Max Speed limit.

7. Error Code Table

Code	Cause	Measurement
E1	Voltage is too high	Check the AC power.
E2	Voltage is too low	Check the AC power.
E3	Over current	Check motor connector, or replace control box
E4	Pedal fault	Check pedal connector
E6	Hall fault	Check motor connector, or replace motor
E7	Lock rotor fault	Check motor connector, or machine head
Pd	Pedal warn	Check pedal to stop position

8. Performance

Voltage	AC160V~260V
Power	400W~800W
Max RPM	2500~6000RPM
Locked rotor torque	3.5Nm~11Nm