Electric Actuator with Integrated Guide Series LTF

Series	Series Motor type Gui		Mounting	Madal	Lead screv	v lead mm	Dogo
Jenes	Series Motor type	Guide type	orientation	Woder	Ground ball screw	Rolled ball screw	Faye
			Horizontal	LTF6	6 10	6 10	P.2
8	Standard		norizontai	LTF8	10 20	10 20	P.10
	motor		Vertical	LTF6	6 10	6 10	P.18
LTE		Frame-type		LTF8	10 20	10 20	P.26
LIF		linear guide	Harimantal	LTF6	6 10	6 10	P.34
	Non-standard		Horizontai	LTF8	10 20	10 20	P.42
	motor	motor	Vartical	LTF6	6 10	6 10	P.50
			vertical	LTF8	10 20	10 20	P.58
							·

- P.66
- P.67
- P.68
— P.69
- P.71

Part Number Designations



SMC

The tables above show the definition for each symbol only and cannot be used for actual model selection.

Horizontal Mount



Ground Ball Screw ø10mm/6mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	
	Body weight	kg	2.2	2.7	3.2	3.7	4.2	4.7	
Performance	Operating temperature range	e °C		5 to 4	10 (with no	condens	ation)		
	Work load	kg			3	0			
	Rated thrust	Ν			30	00			
	Maximum speed	mm/s			300			230	
	Positioning repeatability	±0.02							
	Motor		AC servomotor (100W)						
	Encoder		Incremental system						
Main parts	Lead screw		Ground ball screw ø10mm, 6mm lead						
	Guide		Frame-type linear guide						
	Motor/Screw connection		With coupling						
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for details.)						
Controller	Model		LC1	1H2HF	-🗆 (Refe	er to page	73 for det	ails.)	

Allowable Moment (N·m)



Allowable dynamic moment

 m : Transfer load (kg)
 Me: Allowable dynamic moment

 a : Work piece acceleration (mm/s²)
 L : Overhang to work piece center of gravity (mm)

 Refer to page 71 for deflection data.

Standard Motor/Horizontal Mount Specification Series LTF6

Dimensions/LTF6E PF



Model	Stroke	n 1
LTF6E PF- 100-	100	2
LTF6E PF- 200-	200	3
LTF6E PF- 300-	300	4
LTF6E PF- 400-	400	5
LTF6E PF- 500-	500	6
LTF6E PF- 600-	600	7

 The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)						
Positioning distance (mm)		1	10	100	300	600		
	10	0.5	1.5	10.5	30.5	60.5		
Speed	100	0.5	0.6	1.5	3.5	6.5		
(mm/s)	150	0.5	0.6	1.2	2.5	4.5		
	300	0.5	0.6	0.9	1.6	2.6		

* Values will vary slightly depending on the operating conditions.

Positioning time

- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)
- Maximum acceleration: 3000mm/s²

Horizontal Mount



Ground Ball Screw ø10mm/10mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	
	Body weight	kg	2.2	2.7	3.2	3.7	4.2	4.7	
Performance	Operating temperature range	e °C		5 to 4	10 (with no	condens	ation)		
	Work load	kg			1	5			
	Rated thrust	Ν			18	30			
	Maximum speed	mm/s			500			390	
	Positioning repeatability	mm	±0.02						
	Motor		AC servomotor (100W)						
	Encoder		Incremental system						
Main parts	Lead screw		Ground ball screw ø10mm, 10mm lead						
	Guide		Frame-type linear guide						
	Motor/Screw connection		With coupling						
Switch	Model	Photo micro sensor EE-SX674 (Refer to page 93 for details.)							
Controller	Model		LC1-	·1H2HH□	-🗆 (Refe	er to page	73 for det	ails.)	

Allowable Moment (N·m)



Allowable dynamic moment

 m : Transfer load (kg)
 Me: Allowable dynamic moment

 a : Work piece acceleration (mm/s²)
 L : Overhang to work piece center of gravity (mm)

 Refer to page 71 for deflection data.

Standard Motor/Horizontal Mount Specification Series LTF6

Dimensions/LTF6E PH



Model	Stroke	n 1
LTF6E PH- 100-	100	2
LTF6E PH- 200-	200	3
LTF6E PH- 300-	300	4
LTF6E PH- 400-	400	5
LTF6E PH- 500-	500	6
LTF6E PH- 600-	600	7

 The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)						
Positioning distance (mm)		1	10	100	300	600		
	10	0.5	1.5	10.5	30.5	60.5		
Speed	100	0.5	0.6	1.5	3.5	6.5		
(mm/s)	250	0.5	0.6	0.9	1.7	2.9		
	500	0.5	0.6	0.8	1.2	1.8		

* Values will vary slightly depending on the operating conditions.

Positioning time

- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)
- Maximum acceleration: 3000mm/s²

Horizontal Mount



Rolled Ball Screw ø10mm/6mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600
	Body weight	kg	2.2	2.7	3.2	3.7	4.2	4.7
Performance	Operating temperature range	e °C		5 to 4	10 (with no	condens	ation)	
	Work load	kg			3	0		
	Rated thrust	Ν			30	00		
	Maximum speed	mm/s			300			230
	Positioning repeatability	±0.05						
	Motor		AC servomotor (100W)					
	Encoder		Incremental system					
Main parts	Lead screw		Rolled ball screw ø10mm, 6mm lead					
	Guide		Frame-type linear guide					
	Motor/Screw connection		With coupling					
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for details.)					
Controller	Model		LC1	-1H2HF□-	-🗆 (Refe	er to page	73 for det	ails.)

Allowable Moment (N·m)



Allowable dynamic moment

 m : Transfer load (kg)
 Me: Allowable dynamic moment

 a : Work piece acceleration (mm/s²)
 L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Standard Motor/Horizontal Mount Specification Series LTF6

Dimensions/LTF6E



Model	Stroke	n 1
LTF6E NF- 100-	100	2
LTF6E NF- 200-	200	3
LTF6E NF- 300-	300	4
LTF6E NF- 400-	400	5
LTF6E NF- 500-	500	6
LTF6E NF- 600-	600	7

 The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)						
Positioning distance (mm)		1	10	100	300	600		
	10	0.5	1.5	10.5	30.5	60.5		
Speed	100	0.5	0.6	1.5	3.5	6.5		
(mm/s)	150	0.5	0.6	1.2	2.5	4.5		
	300	0.5	0.6	0.9	1.6	2.6		

* Values will vary slightly depending on the operating conditions.

Positioning time

- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.) Maximum acceleration: 3000mm/s²

Horizontal Mount



Rolled Ball Screw ø10mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600
	Body weight	kg	2.2	2.7	3.2	3.7	4.2	4.7
	Operating temperature range	e °C		5 to 4	10 (with no	condens	ation)	
Performance	Work load	kg			1	5		
	Rated thrust	Ν			18	30		
	Maximum speed	mm/s			500			390
	Positioning repeatability	±0.05						
	Motor		AC servomotor (100W)					
	Encoder		Incremental system					
Main parts	Lead screw		Rolled ball screw ø10mm, 10mm lead					
	Guide		Frame-type linear guide					
	Motor/Screw connection		With coupling					
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for details.)					
Controller	Model		LC1-	1H2HH□	-🗆 (Refe	er to page	73 for det	ails.)

Allowable Moment (N·m)



Allowable dynamic moment

 m : Transfer load (kg)
 Me: Allowable dynamic moment

 a : Work piece acceleration (mm/s²)
 L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.



Standard Motor/Horizontal Mount Specification Series LTF6

Dimensions/LTF6E NH



Model	Stroke	n 1
LTF6E NH- 100-	100	2
LTF6E NH- 200-	200	3
LTF6E NH- 300-	300	4
LTF6E NH- 400-	400	5
LTF6E NH- 500-	500	6
LTF6E NH- 600-	600	7

 The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)										
Positioning distance (mm)		1	10	100	300	600						
10	0.5	1.5	10.5	30.5	60.5							
Speed	100	0.5	0.6	1.5	3.5	6.5						
(mm/s)	250	0.5	0.6	0.9	1.7	2.9						
	500	0.5	0.6	0.8	1.2	1.8						

* Values will vary slightly depending on the operating conditions.

Positioning time

- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)
- Maximum acceleration: 3000mm/s²

Horizontal Mount



Ground Ball Screw Ø**15**mm/**10**mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight	kg	4.6	5.5	6.3	7.1	8.0	8.8	9.6	10.5	11.3	12.1
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)			
Dorformonoo	Work load	kg					5	0				
renormance	Rated thrust	Ν					36	60				
	Maximum speed	mm/s	500 440 350 290 24									
	Positioning repeatability	mm	±0.02									
	Motor		AC servomotor (200W)									
	Encoder					I	ncremen	tal syster	n			
Main parts	Lead screw				Ģ	Fround ba	all screw of	ø15mm, <i>*</i>	10mm lea	ıd		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection		With coupling									
Switch	Model			Photo micro sensor EE-SX674 (Refer to page 93 for details.)								
Controller	Model				LC1-1	НЗНН□-	□□ (Refe	er to page	e 73 for d	etails.)		

Allowable Moment (N·m)



Me: Allowable dynamic moment L : Overhang to work piece center of gravity (mm) : Work piece acceleration (mm/s²)

Refer to page 71 for deflection data.



Dimensions/LTF8F PH



Model	Stroke	n 1
LTF8F PH- 100-	100	2
LTF8F PH- 200-	200	3
LTF8F PH- 300-	300	4
LTF8F PH- 400-	400	5
LTF8F□PH- 500-□□	500	6
LTF8F PH- 600-	600	7
LTF8F□PH- 700-□□	700	8
LTF8F PH- 800-	800	9
LTF8F□PH- 900-□□	900	10
LTF8F PH-1000-	1000	11

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)										
Positioning distance (mm)		1	10	100	500	1000						
	10	0.6	1.6	10.6	50.6	100.6						
Speed	100	0.6	0.7	1.6	5.6	10.6						
(mm/s)	250	0.6	0.7	1.0	2.6	4.6						
	500	0.6	0.7	0.9	1.7	2.7						

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time D: Resting time (0.5 sec.)
- Maximum acceleration: 3000mm/s²

Horizontal Mount



Ground Ball Screw $\emptyset 15_{mm}/20_{mm}$ lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight	kg	4.6	5.5	6.3	7.1	8.0	8.8	9.6	10.5	11.3	12.1
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)			
Dorformonoo	Work load	kg					2	5				
Feriormance	Rated thrust	Ν					18	30				
	Maximum speed	mm/s	1000 890 710 580 480									
	Positioning repeatability	mm	±0.02									
	Motor		AC servomotor (200W)									
	Encoder					I	ncremen	tal syster	n			
Main parts	Lead screw				Ģ	Fround ba	all screw of	ø15mm, 2	20mm lea	ıd		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection		With coupling									
Switch	Model			Р	hoto micro	o sensor l	E-SX674	(Refer to	page 93	for details	5.)	
Controller	Model				LC1-1	H3HLD-	□□ (Refe	er to page	e 73 for de	etails.)		

Allowable Moment (N·m)



Me: Allowable dynamic moment L : Overhang to work piece center of gravity (mm) : Work piece acceleration (mm/s²)

Refer to page 71 for deflection data.



Dimensions/LTF8F PL



Model	Stroke	n1
LTF8F□PL- 100-□□	100	2
LTF8F PL- 200-	200	3
LTF8F PL- 300-	300	4
LTF8F□PL- 400-□□	400	5
LTF8F PL- 500-	500	6
LTF8F□PL- 600-□□	600	7
LTF8F PL- 700-	700	8
LTF8F□PL- 800-□□	800	9
LTF8F□PL- 900-□□	900	10
LTF8F□PL-1000-□□	1000	11

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)										
Positioning of	listance (mm)	1	10	100	500	1000						
	10	0.6	1.6	10.6	50.6	100.6						
Speed	100	0.6	0.7	1.6	5.6	10.6						
(mm/s)	500	0.6	0.7	0.9	1.7	2.7						
	1000	0.6	0.7	0.9	1.4	1.9						

* Values will vary slightly depending on the operating conditions.



A: Acceleration time B: Constant velocity time C: Deceleration time D: Resting time (0.5 sec.)

Horizontal Mount



Rolled Ball Screw ø15mm/10mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight	kg	4.6	5.5	6.3	7.1	8.0	8.8	9.6	10.5	11.3	12.1
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)			
Dorformonoo	Work load	kg					5	0				
Feriormance	Rated thrust	Ν					36	60				
	Maximum speed	mm/s	500 440 350 290 2									240
	Positioning repeatability	mm	±0.05									
	Motor		AC servomotor (200W)									
	Encoder					I	ncremen	tal syster	n			
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 1	0mm lea	d		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection		With coupling									
Switch	Model			Р	hoto micro	o sensor l	E-SX674	(Refer to	page 93	for details	5.)	
Controller	Model				LC1-1	НЗНН□-	□□ (Refe	er to page	e 73 for d	etails.)		

Allowable Moment (N·m)



 m : Transfer load (kg)
 Me: Allowable dynamic moment

 a : Work piece acceleration (mm/s²)
 L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.



Dimensions/LTF8F NH



Model	Stroke	n 1
LTF8F NH- 100-	100	2
LTF8F NH- 200-	200	3
LTF8F NH- 300-	300	4
LTF8F NH- 400-	400	5
LTF8F NH- 500-	500	6
LTF8F NH- 600-	600	7
LTF8F□NH- 700-□□	700	8
LTF8F NH- 800-	800	9
LTF8F NH- 900-	900	10
LTF8F NH-1000-	1000	11

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)										
Positioning of	listance (mm)	1	10	100	500	1000						
	10	0.6	1.6	10.6	50.6	100.6						
Speed	100	0.6	0.7	1.6	5.6	10.6						
(mm/s)	250	0.6	0.7	1.0	2.6	4.6						
	500	0.6	0.7	0.9	1.7	2.7						

* Values will vary slightly depending on the operating conditions.



A: Acceleration time B: Constant velocity time C: Deceleration time D: Resting time (0.5 sec.) Maximum acceleration: 3000mm/s²

Horizontal Mount



Rolled Ball Screw ø15mm/20mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000		
	Body weight	kg	4.6	5.5	6.3	7.1	8.0	8.8	9.6	10.5	11.3	12.1		
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)					
Dorformonoo	Work load	kg					2	5						
Feriormance	Rated thrust	Ν		180										
	Maximum speed	mm/s	1000 890 710 580 48									480		
	Positioning repeatability	mm	±0.05											
	Motor					AC	C servom	otor (200	W)					
	Encoder					I	ncremen	tal syster	n					
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 2	0mm lea	d				
	Guide					Fra	ame-type	linear gu	ide					
	Motor/Screw connection		With coupling											
Switch	Model			Photo micro sensor EE-SX674 (Refer to page 93 for details.)										
Controller	Model				LC1-1	H3HLD-	□□ (Refe	er to page	73 for de	etails.)				

Allowable Moment (N·m)



 m
 : Transfer load (kg)
 Me : Allowable dynamic moment

 a
 : Work piece acceleration (mm/s²)
 L
 : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.



Dimensions/LTF8F NL



Model	Stroke	n 1
LTF8F NL- 100-	100	2
LTF8F NL- 200-	200	3
LTF8F NL- 300-	300	4
LTF8F NL- 400-	400	5
LTF8F NL- 500-	500	6
LTF8F NL- 600-	600	7
LTF8F□NL- 700-□□	700	8
LTF8F NL- 800-	800	9
LTF8F NL- 900-	900	10
LTF8F NL-1000-	1000	11

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

	_		Positi	onina time	(sec.)	
Positioning of	listance (mm)	1	10	100	500	1000
	10	0.6	1.6	10.6	50.6	100.6
Speed	100	0.6	0.7	1.6	5.6	10.6
(mm/s)	500	0.6	0.7	0.9	1.7	2.7
	1000	0.6	0.7	0.9	1.4	1.9

* Values will vary slightly depending on the operating conditions.



A: Acceleration time B: Constant velocity time C: Deceleration time D: Resting time (0.5 sec.) Maximum acceleration: 3000mm/s²

Vertical Mount



Ground Ball Screw ø10mm/6mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600		
	Body weight	kg	2.4	2.9	3.4	3.9	4.4	4.9		
	Operating temperature range	°C	5 to 40 (with no condensation)							
Borformonoo	Work load	kg		6						
Performance	Rated thrust	Ν			30	00				
N	Maximum speed	mm/s			300			230		
	Positioning repeatability	mm	±0.02							
_	Motor		AC servomotor (100W) with brake							
	Encoder		Incremental system							
Main parts	Lead screw		Ground ball screw ø10mm, 6mm lead							
	Guide		Frame-type linear guide							
	Motor/Screw connection		With coupling							
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for details					r details.)		
Controller	Model LC1-1H2VF (Refer to page 73 for details.					ails.)				
Regenerative absorption unit	Model		LC7	′R-K1⊡A	⊒⊡ (Refei	to page 8	36 for deta	ils.)		

Note) Be sure to use a regenerative absorption unit with this product.

Allowable Moment (N·m)



 m : Transfer load (kg)
 Me: Allowable dynamic moment

 a : Work piece acceleration (mm/s²)
 L : Overhang to work piece center of gravity (mm)

 Refer to page 71 for deflection data.

Standard Motor/Vertical Mount Specification Series LTF6

Dimensions/LTF6E



Model	Stroke	n 1
LTF6E PF- 100K-	100	2
LTF6E PF- 200K-	200	3
LTF6E PF- 300K-	300	4
LTF6E PF- 400K-	400	5
LTF6E PF- 500K-	500	6
LTF6E PF- 600K-	600	7

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)						
Positioning d	listance (mm)	1	10	100	300	600		
	10	0.5	1.5	10.5	30.5	60.5		
Speed	100	0.5	0.6	1.5	3.5	6.5		
(mm/s)	150	0.5	0.6	1.2	2.5	4.5		
	300	0.5	0.6	0.9	1.6	2.6		

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.) Maximum acceleration: 3000mm/s²

Vertical Mount



Ground Ball Screw ø10mm/10mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600		
	Body weight	kg	2.4	2.9	3.4	3.9	4.4	4.9		
	Operating temperature range	°C	5 to 40 (with no condensation)							
Dorformonoo	Work load	kg		3						
renormance	Rated thrust	Ν			18	30				
	Maximum speed	mm/s			500			390		
	Positioning repeatability	mm	±0.02							
_	Motor		AC servomotor (100W) with brake							
	Encoder		Incremental system							
Main parts	Lead screw		Ground ball screw ø10mm, 10mm lead							
	Guide		Frame-type linear guide							
	Motor/Screw connection		With coupling							
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for details.)				r details.)			
Controller	Model		LC1-1H2VH□-□□ (Refer to page 73 for details.)							
Regenerative absorption unit	Model		LC7	′R-K1⊡A	□□ (Refei	to page 8	36 for deta	ils.)		

Note) Be sure to use a regenerative absorption unit with this product.

Allowable Moment (N·m)

Allowable dynamic moment Mounting orientation Model LTF6 Load movement direction 200 L1 (mm) Pitching Vertical 100 a=3000/ <u>a=1000</u> Transfer load m (kg) 200 L3 (mm) Rolling Vertical 100 a=3000 2000 <u>a=1000</u> Transfer load m (kg)

Refer to page 71 for deflection data.

Standard Motor/Vertical Mount Specification Series LTF6

Dimensions/LTF6E PH



Model	Stroke	n 1
LTF6E PH- 100K-	100	2
LTF6E PH- 200K-	200	3
LTF6E PH- 300K-	300	4
LTF6E PH- 400K-	400	5
LTF6E PH- 500K-	500	6
LTF6E PH- 600K-	600	7

 The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)						
Positioning of	listance (mm)	1	10	100	300	600		
	10	0.5	1.5	10.5	30.5	60.5		
Speed	100	0.5	0.6	1.5	3.5	6.5		
(mm/s)	250	0.5	0.6	0.9	1.7	2.9		
	500	0.5	0.6	0.8	1.2	1.8		

* Values will vary slightly depending on the operating conditions.

Positioning time

- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.) Maximum acceleration: 3000mm/s²

Vertical Mount



Rolled Ball Screw

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	
	Body weight	kg	2.4	2.9	3.4	3.9	4.4	4.9	
	Operating temperature range	°C	5 to 40 (with no condensation)						
Borformonoo	Work load	kg			6	6			
Performance	Rated thrust	Ν			30	00			
	Maximum speed	mm/s			300			230	
	Positioning repeatability	mm	±0.05						
_	Motor	AC servomotor (100W) with brake							
	Encoder		Incremental system						
Main parts	Lead screw		Rolled ball screw ø10mm, 6mm lead						
	Guide		Frame-type linear guide						
	Motor/Screw connection		With coupling						
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for details.				r details.)		
Controller	Model		LC1-1H2VF□-□□ (Refer to page 73 for details.)				ails.)		
Regenerative absorption unit	Model		LC7	′R-K1⊡A	⊐⊡ (Refei	to page 8	36 for deta	ils.)	

Note) Be sure to use a regenerative absorption unit with this product.

Allowable Moment (N·m)

Allowable dynamic moment Mounting orientation Model LTF6 Load movement direction 200 L1 (mm) Pitching Vertical 100 a=3000/ <u>a=1000</u> Transfer load m (kg) 200 L3 (mm) Rolling Vertical 100 a=3000 2000 <u>a=1000</u> Transfer load m (kg)

Refer to page 71 for deflection data.

Standard Motor/Vertical Mount Specification Series LTF6

Dimensions/LTF6E



	onono	
LTF6E NF- 100K-	100	2
LTF6E NF- 200K-	200	3
LTF6E NF- 300K-	300	4
LTF6E NF- 400K-	400	5
LTF6E NF- 500K-	500	6
LTF6E NF- 600K-	600	7

 The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment.
 Refer to pages starting with 68 for mounting.

Positioning Time Guide

			Positioning time (sec.)						
Positioning distance (mm)		1	10	100	300	600			
	10	0.5	1.5	10.5	30.5	60.5			
Speed	100	0.5	0.6	1.5	3.5	6.5			
(mm/s)	150	0.5	0.6	1.2	2.5	4.5			
	300	0.5	0.6	0.9	1.6	2.6			

* Values will vary slightly depending on the operating conditions.

Positioning time

- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.) Maximum acceleration: 3000mm/s²

Vertical Mount



Rolled Ball Screw ø10mm/10mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	
	Body weight	kg	2.4	2.9	3.4	3.9	4.4	4.9	
	Operating temperature range	°C	5 to 40 (with no condensation)						
Borformonoo	Work load	kg			3	3			
Performance	Rated thrust	Ν			18	30			
	Maximum speed	mm/s			500			390	
	Positioning repeatability	mm	±0.05						
_	Motor		AC servomotor (100W) with brake						
	Encoder		Incremental system						
Main parts	Lead screw		Rolled ball screw ø10mm, 10mm lead						
	Guide		Frame-type linear guide						
	Motor/Screw connection		With coupling						
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for details.)				r details.)		
Controller	Model		LC1-1H2VH□-□□ (Refer to page 73 for details.)						
Regenerative absorption unit	Model		LC7	′R-K1⊡A	□□ (Refe	to page 8	36 for deta	ils.)	

Note) Be sure to use a regenerative absorption unit with this product.

Allowable Moment (N·m)

Allowable dynamic moment Mounting orientation Model LTF6 Load movement direction 200 L1 (mm) Pitching Vertical 100 a=3000/ <u>a=1000</u> Transfer load m (kg) 200 L3 (mm) Rolling Vertical 100 a=3000 2000 <u>a=1000</u> Transfer load m (kg)

Refer to page 71 for deflection data.

Standard Motor/Vertical Mount Specification Series LTF6

Dimensions/LTF6E NH



IVIODEI	Stroke	n 1
LTF6E NH- 100K-	100	2
LTF6E NH- 200K-	200	3
LTF6E NH- 300K-	300	4
LTF6E NH- 400K-	400	5
LTF6E NH- 500K-	500	6
LTF6E NH- 600K-	600	7

 The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)							
Positioning distance (mm)		1 10		100	300	600			
	10	0.5	1.5	10.5	30.5	60.5			
Speed	100	0.5	0.6	1.5	3.5	6.5			
(mm/s)	250	0.5	0.6	0.9	1.7	2.9			
	500	0.5	0.6	0.8	1.2	1.8			

* Values will vary slightly depending on the operating conditions.

Positioning time

- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.) Maximum acceleration: 3000mm/s²

Vertical Mount



Ground Ball Screw

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000		
	Body weight	kg	5.0	5.9	6.7	7.5	8.4	9.2	10.0	10.9	11.7	12.5		
	Operating temperature range	°C				5 to 40) (with no	condens	sation)					
Borformonoo	Work load	kg					1	0						
Performance	Rated thrust	Ν		360										
	Maximum speed	mm/s	500 440 350 290 240											
	Positioning repeatability	mm	±0.02											
	Motor		AC servomotor (200W) with brake											
	Encoder		Incremental system											
Main parts	Lead screw				Ģ	Fround ba	all screw of	ø15mm, <i>*</i>	10mm lea	ıd				
	Guide					Fra	ame-type	linear gu	ide					
	Motor/Screw connection						With c	oupling						
Switch	Model			Р	hoto micro	o sensor E	EE-SX674	(Refer to	page 93	for details	s.)			
Controller	Model		LC1-1H3VF□-□□ (Refer to page 73 for details.)											
Regenerative absorption unit	Model				LC7F	R-K1□A□	□□ (Refe	to page	86 for de	tails.)				

Note) Be sure to use a regenerative absorption unit with this product.

Allowable Moment (N·m)

Allowable dynamic moment										
Mo Loa	unting orientation M ad movement direction	lodel		LTF8						
Pitching		Vertical	L1 (mm)	300 200 100 0 2 4 6 8 10 Transfer load m (kg)						
Rolling	j L3→ Mey	Vertical	L3 (mm)	300 200 100 a=2000 a=2000 c 2 4 6 8 10 Transfer load m (kg)						

m : Transfer load (kg) Me : Allowable dynamic moment a : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Standard Motor/Vertical Mount Specification Series LTF8

Dimensions/LTF8F PH



Model	Stroke	n 1
LTF8F□PH- 100K-□□	100	2
LTF8F□PH- 200K-□□	200	3
LTF8F□PH- 300K-□□	300	4
LTF8F□PH- 400K-□□	400	5
LTF8F□PH- 500K-□□	500	6
LTF8F□PH- 600K-□□	600	7
LTF8F□PH- 700K-□□	700	8
LTF8F□PH- 800K-□□	800	9
LTF8F□PH- 900K-□□	900	10
LTF8F PH-1000K-	1000	11

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)								
Positioning of	listance (mm)	1	10	100	500	1000				
	10	0.6	1.6	10.6	50.6	100.6				
Speed	100	0.6	0.7	1.6	5.6	10.6				
(mm/s)	250	0.6	0.7	1.0	2.6	4.6				
	500	0.6	0.7	0.9	1.7	2.7				

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time C: Deceleration time
- D: Resting time (0.5 sec.)
- Maximum acceleration: 3000mm/s²
- В С D

Vertical Mount



Ground Ball Screw

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000	
	Body weight	kg	5.0	5.9	6.7	7.5	8.4	9.2	10.0	10.9	11.7	12.5	
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)				
Dorformonoo	Work load	kg					Ę	5					
renormance	Rated thrust	Ν		180									
	Maximum speed	mm/s	1000 890 710 580 480										
	Positioning repeatability	mm	±0.02										
	Motor		AC servomotor (200W) with brake										
	Encoder		Incremental system										
Main parts	Lead screw				G	Fround ba	all screw of	ø15mm, 2	20mm lea	ıd			
	Guide		Frame-type linear guide										
	Motor/Screw connection						With c	oupling					
Switch	Model			Р	hoto micro	o sensor l	EE-SX674	(Refer to	page 93	for details	s.)		
Controller	Model		LC1-1H3VL□-□□ (Refer to page 73 for details.)										
Regenerative absorption unit	Model				LC7F	R-K1□A□	□□ (Refe	to page	86 for de	tails.)			

Note) Be sure to use a regenerative absorption unit with this product.

Allowable Moment (N·m)

Allo	Allowable dynamic moment									
Mo	unting orientation M	odel	LTF8							
Loa	id movement direction 🥄	\geq		•						
Pitching		Vertical	L1 (mm)	300 200 100 0 2 4 6 8 10						
				Transfer load m (kg)						
Rolling	i ↓↓↓ ↓↓ Mey	Vertical	L3 (mm)	300 200 100 0 2 4 6 8 10 Transfer load m (kg)						

m : Transfer load (kg) Me : Allowable dynamic moment a : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Standard Motor/Vertical Mount Specification Series LTF8

Dimensions/LTF8F PL



Model	Stroke	n 1
LTF8F□PL- 100K-□□	100	2
LTF8F PL- 200K-	200	3
LTF8F□PL- 300K-□□	300	4
LTF8F□PL- 400K-□□	400	5
LTF8F□PL- 500K-□□	500	6
LTF8F□PL- 600K-□□	600	7
LTF8F□PL- 700K-□□	700	8
LTF8F□PL- 800K-□□	800	9
LTF8F□PL- 900K-□□	900	10
LTF8F PL-1000K-	1000	11

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)								
Positioning of	listance (mm)	1	10	100	500	1000				
	10	0.6	1.6	10.6	50.6	100.6				
Speed	100	0.6	0.7	1.6	5.6	10.6				
(mm/s)	500	0.6	0.7	0.9	1.7	2.7				
	1000	0.6	0.7	0.9	1.4	1.9				

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time C: Deceleration time
- D: Resting time (0.5 sec.)
- Maximum acceleration: 3000mm/s²

Vertical Mount



Rolled Ball Screw

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000		
	Body weight	kg	5.0	5.9	6.7	7.5	8.4	9.2	10.0	10.9	11.7	12.5		
	Operating temperature range	°C				5 to 40) (with no	condens	sation)					
Borformonoo	Work load	kg					1	0						
Performance	Rated thrust	Ν		360										
	Maximum speed	mm/s	500 440 350 290 240											
	Positioning repeatability	mm	±0.05											
	Motor		AC servomotor (200W) with brake											
	Encoder		Incremental system											
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 1	0mm lea	d				
	Guide					Fra	ame-type	linear gu	ide					
	Motor/Screw connection						With c	oupling						
Switch	Model			Р	hoto micro	o sensor E	EE-SX674	(Refer to	page 93	for details	s.)			
Controller	Model		LC1-1H3VH□-□□ (Refer to page 73 for details.)											
Regenerative absorption unit	Model				LC7F	R-K1□A□	□□ (Refe	to page	86 for de	tails.)				

Note) Be sure to use a regenerative absorption unit with this product.

Allowable Moment (N·m)

Allowable dynamic moment										
Mo Loa	unting orientation M Id movement direction	lodel	LTF8							
Pitching		Vertical	L1 (mm)	300 200 a=3000 100 a=2000 0 2 4 6 8 10 Transfer load m (kg)						
Rolling	j L3 Mey	Vertical	L3 (mm)	300 200 100 a=2000 a=2000 c 2 4 6 8 10 Transfer load m (kg)						

 m : Transfer load (kg)
 Me: Allowable dynamic moment

 a : Work piece acceleration (mm/s²)
 L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Standard Motor/Vertical Mount Specification Series LTF8

Dimensions/LTF8F NH



Model	Stroke	n 1
LTF8F NH- 100K-	100	2
LTF8F NH- 200K-	200	3
LTF8F NH- 300K-	300	4
LTF8F NH- 400K-	400	5
LTF8F NH- 500K-	500	6
LTF8F NH- 600K-	600	7
LTF8F NH- 700K-	700	8
LTF8F NH- 800K-	800	9
LTF8F□NH- 900K-□□	900	10
LTF8F NH-1000K-	1000	11

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)						
Positioning of	listance (mm)	1	10	100	500	1000		
Speed	10	0.6	1.6	10.6	50.6	100.6		
	100	0.6	0.7	1.6	5.6	10.6		
(mm/s)	250	0.6	0.7	1.0	2.6	4.6		
	500	0.6	0.7	0.9	1.7	2.7		

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time C: Deceleration time
- D: Resting time (0.5 sec.)
- Maximum acceleration: 3000mm/s²

Vertical Mount



Rolled Ball Screw

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight	kg	5.0	5.9	6.7	7.5	8.4	9.2	10.0	10.9	11.7	12.5
	Operating temperature range	°C				5 to 40) (with no	condens	sation)			
Borformonoo	Work load	kg					Ę	5				
Performance	Rated thrust	Ν					18	30				
	Maximum speed	mm/s	1000 890 710 580 4						480			
	Positioning repeatability	mm	±0.05									
	Motor		AC servomotor (200W) with brake									
	Encoder					I	ncremen	tal syster	n			
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 2	0mm lea	ad		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection						With c	oupling				
Switch	Model			Р	hoto micro	o sensor E	EE-SX674	(Refer to	page 93	for details	5.)	
Controller	Model		LC1-1H3VL□-□□ (Refer to page 73 for details.)									
Regenerative absorption unit	Model				LC7F	R-K1□A□	□□ (Refe	to page	86 for de	tails.)		

Note) Be sure to use a regenerative absorption unit with this product.

Allowable Moment (N·m)

Allo	Allowable dynamic moment									
Mo	unting orientation M	lodel		LTF8						
Loa	id movement direction	\geq								
Pitching		Vertical	L1 (mm)	300 200 100 2 4 6 8 10						
				Transfer load m (kg)						
Rolling	i ↓ ↓ ↓ ↓ ↓ ↓ ↓ a ↓ ↓ a ↓ ↓ a	Vertical	L3 (mm)	300 200 100 0 2 4 6 8 10 Transfer load m (kg)						
				Transfer load m (kg)						

m : Transfer load (kg) Me : Allowable dynamic moment a : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Standard Motor/Vertical Mount Specification Series LTF8

Dimensions/LTF8F NL



Model	Stroke	n1
LTF8F□NL- 100K-□□	100	2
LTF8F NL- 200K-	200	3
LTF8F NL- 300K-	300	4
LTF8F NL- 400K-	400	5
LTF8F NL- 500K-	500	6
LTF8F NL- 600K-	600	7
LTF8F NL- 700K-	700	8
LTF8F NL- 800K-	800	9
LTF8F□NL- 900K-□□	900	10
LTF8F NL-1000K-	1000	11

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 68 for mounting.

Positioning Time Guide

		Positioning time (sec.)						
Positioning of	listance (mm)	1	10	100	500	1000		
Speed	10	0.6	1.6	10.6	50.6	100.6		
	100	0.6	0.7	1.6	5.6	10.6		
(mm/s)	500	0.6	0.7	0.9	1.7	2.7		
	1000	0.6	0.7	0.9	1.4	1.9		

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time C: Deceleration time
- D: Resting time (0.5 sec.)
- Maximum acceleration: 3000mm/s²
- В С

Horizontal Mount

How to Order



Series LTF6

Specifications

	Standard stroke	mm	100	200	300	400	500	600
Performance	Body weight (without motor) k		1.7	2.1	2.6	3.1	3.6	4.1
	Operating temperature range		5 to 4	10 (with no	condens	ation)		
	Work load	kg			3	0		
	Rated thrust			30	00			
	Maximum speed			300			230	
	Positioning repeatability	mm	±0.02					
	Motor	AC servomotor (100W)						
	Encoder	Incremental system						
Main parts	Lead screw	Ground ball screw ø10mm, 6mm lead						
	Guide		Frame-type linear guide					
	Motor/Screw connection		With coupling					
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)					
Switch	Model	Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)						
			Proximity s	witch GXL-N	112FTB (B co	ontact) (Refe	r to page 92	for details.)

Allowable Moment (N·m)

Allowable dynamic moment



- : Transfer load (kg)
- a : Work piece acceleration (mm/s²)
- Me: Allowable dynamic moment
 - : Overhang to work piece center of gravity (mm)



Dimensions/LTF6 E PF(X10)



Positioning Time Guide

			Positi	e (sec.)		
Positioning d	listance (mm)	1	10	100	300	600
Speed	10	0.5	1.5	10.5	30.5	60.5
	100	0.5	0.6	1.5	3.5	6.5
(mm/s)	150	0.5	0.6	1.2	2.5	4.5
	300	0.5	0.6	0.9	1.6	2.6

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)* Maximum acceleration: 3000mm/s²
- The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric		100/115	MSM011P1A	MSD011P1E	102	
Industrial Co., Ltd.	100	200/230	MSM012P1A	MSD013P1E	105	
Mitsubishi Electric	100	100/115		MR-C10A1	86.5	
Corporation	100	200/230	HC-PQ13	MR-C10A		
Yasukawa Electric Corporation	100 -	100/115	SGME-01BF12	SGDE-01BP	04.5	
		200/230	SGME-01AF12	SGDE-01AP	94.5	

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Horizontal Mount

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	
	Body weight (without motor) kg	1.7	2.1	2.6	3.1	3.6	4.1	
	Operating temperature range		5 to 4	10 (with no	condens	ation)			
Borformanoo	Work load	kg			1	5			
Ferrormance	Rated thrust	Ν	180						
	Maximum speed	mm/s	500 39					390	
	Positioning repeatability	mm	±0.02						
	Motor	AC servomotor (100W)							
	Encoder	Incremental system							
Main parts	Lead screw	Ground ball screw ø10mm, 10mm lead							
	Guide		Frame-type linear guide						
	Motor/Screw connection		With coupling						
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)						
Switch	Model	Model			Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)				
			Proximity s	witch GXL-N	112FTB (B co	ontact) (Refe	r to page 92	for details.)	

Allowable Moment (N·m)

Allowable dynamic moment



- m : Transfer load (kg)
- a : Work piece acceleration (mm/s²)
- Me: Allowable dynamic moment
- L : Overhang to work piece center of gravity (mm)



Dimensions/LTF6 E PH(X10)



Positioning Time Guide

		Positioning time (sec.)					
Positioning d	listance (mm)	1	10	100	300	600	
Speed (mm/s)	10	0.5	1.5	10.5	30.5	60.5	
	100	0.5	0.6	1.5	3.5	6.5	
	250	0.5	0.6	0.9	1.7	2.9	
	500	0.5	0.6	0.8	1.2	1.8	

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)* Maximum acceleration: 3000mm/s²
- The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric	100	100/115	MSM011P1A	MSD011P1E	103	
Industrial Co., Ltd.	100	200/230	MSM012P1A	MSD013P1E		
Mitsubishi Electric	100	100/115		MR-C10A1	86.5	
Corporation	100	200/230	HC-PQ13	MR-C10A		
Yasukawa Electric	100	100/115	SGME-01BF12	SGDE-01BP	04.5	
Corporation		200/230	SGME-01AF12	SGDE-01AP	94.0	

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	
	Body weight (without motor)	kg	1.7	2.1	2.6	3.1	3.6	4.1	
	Operating temperature range	°C		5 to 4	10 (with no	condens	ation)		
Borformanoo	Work load	kg			3	0			
Ferrormance	Rated thrust	Ν	300						
	Maximum speed	mm/s			300			230	
	Positioning repeatability	mm	±0.05						
-	Motor		AC servomotor (100W)						
	Encoder	Incremental system							
Main parts	Body weight (without motor) kg 1.7 2.1 2.6 3.1 3 Operating temperature range °C 5 to 40 (with no condensation Work load kg 30 Rated thrust N 300 Maximum speed mm/s 300 Positioning repeatability mm ±0.05 Motor AC servomotor (100W) Encoder Incremental system Lead screw Rolled ball screw ø10mm, 6mm l Guide Frame-type linear guide Motor/Screw connection With coupling Photo micro sensor EE-SX674 (Refer to page Proximity switch GXL-N12FT (A contact) (Refer to page Proximity switch GXL-N12FT (B (B contact) (Refer to page)	mm lead							
	Guide			Fr	rame-type	linear gui	de		
	Motor/Screw connection				With co	oupling			
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)						
Performance Main parts Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)						
			Proximity s	witch GXL-N	112FTB (B co	ontact) (Refe	r to page 92	for details.)	

Allowable Moment (N·m)

Allowable dynamic moment



: Transfer load (kg) m

- : Work piece acceleration (mm/s²) а
- Me: Allowable dynamic moment
- L : Overhang to work piece center of gravity (mm)



Dimensions/LTF6 E NF(X10)



Positioning Time Guide

		Positioning time (sec.)								
Positioning d	listance (mm)	1	10	100	300	600				
Speed (mm/s)	10	0.5	1.5	10.5	30.5	60.5				
	100	0.5	0.6	1.5	3.5	6.5				
	150	0.5	0.6	1.2	2.5	4.5				
	300	0.5	0.6	0.9	1.6	2.6				

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)* Maximum acceleration: 3000mm/s²
- * The value is a guide when SMC's
- series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	100	100/115 MSM011P		MSD011P1E	102
Industrial Co., Ltd.	100	200/230	MSM012P1A	MSD013P1E	103
Mitsubishi Electric	100	100/115		MR-C10A1	96 F
Corporation	100	200/230	HC-PQ13	MR-C10A	0.00
Yasukawa Electric	100	100/115	SGME-01BF12	SGDE-01BP	04.5
Corporation	100	200/230	SGME-01AF12	SGDE-01AP	94.0

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Horizontal Mount



Rolled Ball Screw ø10mm/10mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600		
	Body weight (without motor) kg	1.7	2.1	2.6	3.1	3.6	4.1		
	Operating temperature range	°C	5 to 40 (with no condensation)							
Borformanco	Work load	kg			1	5				
Ferrormance	Rated thrust	Ν	180							
	Maximum speed	mm/s			500			390		
	Positioning repeatability	mm	±0.05							
	Motor		AC servomotor (100W)							
	Encoder		Incremental system							
PerformanceBody weight (without motor) kg1.72.12.63.1Operating temperature range °C5 to 40 (with no condensation of the condensation of th)mm lead									
	Guide		Frame-type linear guide							
	Motor/Screw connection		With coupling							
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)							
Main parts Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)							
			Proximity s	witch GXL-N	112FTB (B co	ontact) (Refe	r to page 92	for details.)		

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg)

- a : Work piece acceleration (mm/s²)
- Me: Allowable dynamic moment
- L : Overhang to work piece center of gravity (mm)



Dimensions/LTF6 E NH(X10)



Positioning Time Guide

		Positioning time (sec.)								
Positioning d	listance (mm)	1	10	100	300	600				
Speed (mm/s)	10	0.5	1.5	10.5	30.5	60.5				
	100	0.5	0.6	1.5	3.5	6.5				
	250	0.5	0.6	0.9	1.7	2.9				
	500	0.5	0.6	0.8	1.2	1.8				

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)*
- Maximum acceleration: 3000mm/s²
- The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC) Motor model		Compatible driver model	Motor dimension (mm)
Matsushita Electric	100	100/115	MSM011P1A	MSD011P1E	102
Industrial Co., Ltd.	100	200/230	MSM012P1A	MSD013P1E	103
Mitsubishi Electric	100	100/115		MR-C10A1	96.5
Corporation	100	200/230	HC-PQ13	MR-C10A	C.00
Yasukawa Electric	100	100/115	SGME-01BF12	SGDE-01BP	04.5
Corporation	100	200/230	SGME-01AF12	SGDE-01AP	94.5

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Horizontal Mount



Ground Ball Screw ø15mm/10mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight (without motor)	kg	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1
	Operating temperature range	°C				5 to 40	0 (with no	condens	sation)			
Performance F M Main parts ((Work load	kg		50								
Performance	Rated thrust	Ν					36	60				
	Maximum speed	mm/s			50	00			440	350	290	240
	Positioning repeatability	mm		±0.02								
	Motor		AC servomotor (200W)									
	Encoder		AC servomotor (200W) Incremental system									
Main parts	Lead screw				Ģ	Fround ba	all screw of	ø15mm, <i>*</i>	10mm lea	ıd		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection						With c	oupling				
				Ph	oto micro	sensor E	E-SX674	l (Refer to	o page 93	B for deta	ils.)	
Switch	Model			Proximi	y switch	GXL-N12	FT (A co	ntact) (Re	efer to pa	ge 92 for	details.)	
				Proximit	/ switch C	GXL-N12F	FTB (B co	ontact) (R	efer to pa	age 92 fo	r details.)	

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg)

a : Work piece acceleration (mm/s2) Me: Allowable dynamic moment

L : Overhang to work piece

center of gravity (mm)

Refer to page 71 for deflection data. 42



Non-standard Motor/Horizontal Mount Specification Series LTF8

Dimensions/LTF8□F□PH(X10)



Model	Stroke	n 1	n ₂	Model	Stroke	n 1	n ₂
LTF8□F□PH- 100-□□-X10	100	2	1	LTF8□F□PH- 600-□□-X10	600	7	2
LTF8□F□PH- 200-□□-X10	200	3	1	LTF8□F□PH- 700-□□-X10	700	8	2
LTF8□F□PH- 300-□□-X10	300	4	1	LTF8□F□PH- 800-□□-X10	800	9	2
LTF8□F□PH- 400-□□-X10	400	5	1	LTF8□F□PH- 900-□□-X10	900	10	2
LTF8□F□PH- 500-□□-X10	500	6	2	LTF8□F□PH-1000-□□-X10	1000	11	2

Positioning Time Guide

		Positioning time (sec.)								
Positioning d	listance (mm)	1	10	100	500	1000				
	10	0.6	1.6	10.6	50.6	100.6				
Speed	100	0.6	0.7	1.6	5.6	10.6				
(mm/s)	250	0.6	0.7	1.0	2.6	4.6				
	500	0.6	0.7	0.9	1.7	2.7				

Positioning time

A: Acceleration time

B: Constant velocity time

C: Deceleration time

D: Resting time (0.5 sec.)*

Maximum acceleration: 3000mm/s²

* The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

* Values will vary slightly depending on the operating conditions.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115		MSD021P1E	05
Industrial Co., Ltd.	200	200/230	MSM022P1A	MSD023P1E	90
Mitsubishi Electric	200	100/115		MR-C20A1	80
Corporation	200	200/230	HC-PQ23	MR-C20A	09
Yasukawa Electric	200	100/115	SGME-02BF12	SGDE-02BP	06.5
Corporation	200	200/230	SGME-02AF12	SGDE-02AP	90.5

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Horizontal Mount



Ground Ball Screw ø15mm/20mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight (without motor)	kg	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)			
Dorformonoo	Work load	kg					2	5				
Performance	Rated thrust	Ν					18	30				
	Maximum speed	mm/s			10	00			890	710	580	480
	Positioning repeatability	mm		±0.02								
	Motor		AC servomotor (200W)									
	Encoder					I	ncremen	tal systen	n			
Main parts	Lead screw				G	Fround ba	all screw (ø15mm, 2	20mm lea	ıd		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection						With c	oupling				
	Photo micro sensor EE-SX674 (Refer to page 93 for details.)											
Main parts Switch	Model			Proximit	y switch	GXL-N12	FT (A co	ntact) (Re	efer to pa	ge 92 for	details.)	
				Proximity	/ switch G	SXL-N12	TB (B co	ontact) (R	efer to pa	age 92 foi	r details.)	

Allowable Moment (N·m)

Allowable dynamic moment



: Transfer load (kg)

- : Work piece acceleration (mm/s²) а
- Me: Allowable dynamic moment L : Overhang to work piece
 - center of gravity (mm)



Non-standard Motor/Horizontal Mount Specification Series LTF8

Dimensions/LTF8 F PL(X10)



Model	Stroke	n 1	n 2	Model	Stroke	n 1	n2
LTF8□F□PL- 100-□□-X10	100	2	1	LTF8□F□PL- 600-□□-X10	600	7	2
LTF8 F PL- 200X10	200	3	1	LTF8□F□PL- 700-□□-X10	700	8	2
LTF8□F□PL- 300-□□-X10	300	4	1	LTF8□F□PL- 800-□□-X10	800	9	2
LTF8□F□PL- 400-□□-X10	400	5	1	LTF8□F□PL- 900-□□-X10	900	10	2
LTF8□F□PL- 500-□□-X10	500	6	2	LTF8□F□PL-1000-□□-X10	1000	11	2

Positioning Time Guide

		Positioning time (sec.)							
Positioning d	listance (mm)	1	10	100	500	1000			
	10	0.6	1.6	10.6	50.6	100.6			
Speed	100	0.6	0.7	1.6	5.6	10.6			
(mm/s)	500	0.6	0.7	0.9	1.7	2.7			
	1000	0.6	0.7	0.9	1.4	1.9			

Positioning time

A: Acceleration time

B: Constant velocity time

C: Deceleration time

D: Resting time (0.5 sec.)*

Maximum acceleration: 3000mm/s²

 The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

* Values will vary slightly depending on the operating conditions.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC) Motor model C		Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1A	MSD021P1E	05
Industrial Co., Ltd.	200	200/230	MSM022P1A	MSD023P1E	95
Mitsubishi Electric	200	100/115		MR-C20A1	80
Corporation	200	200/230	HC-PQ23	MR-C20A	09
Yasukawa Electric	200	100/115	SGME-02BF12	SGDE-02BP	06.5
Corporation	200	200/230	SGME-02AF12	SGDE-02AP	90.5

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Horizontal Mount



Rolled Ball Screw ø15mm/10mm lead

Dog fittings for switch are attached to all types except type "Nil".

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000				
	Body weight (without motor) kg	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1				
	Operating temperature range	°C		5 to 40 (with no condensation)												
Dorformonoo	Performance Work load kg			50												
Performance	Rated thrust	Ν	360													
	Maximum speed	mm/s			50	00			440	350	290	240				
	Positioning repeatability	mm		±0.05												
	Motor	otor AC servomotor (200W)														
	Encoder		Incremental system													
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 1	0mm lea	d						
	Guide					Fra	ame-type	linear gu	ide							
	Motor/Screw connection						With c	oupling								
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)													
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)													
				Proximity	/ switch G	GXL-N12	TB (B co	ontact) (R	efer to pa	Proximity switch GXL-N12FTB (B contact) (Refer to page 92 for details.)						

Allowable Moment (N·m)

Allowable dynamic moment



: Transfer load (kg)

a : Work piece acceleration (mm/s²)

Me: Allowable dynamic moment L : Overhang to work piece

center of gravity (mm)



Non-standard Motor/Horizontal Mount Specification Series LTF8

Dimensions/LTF8□F□NH(X10)



Model	Stroke	n 1	n ₂	Model	Stroke	n 1	n ₂
LTF8□F□NH- 100-□□-X10	100	2	1	LTF8□F□NH- 600-□□-X10	600	7	2
LTF8□F□NH- 200-□□-X10	200	3	1	LTF8□F□NH- 700-□□-X10	700	8	2
LTF8□F□NH- 300-□□-X10	300	4	1	LTF8□F□NH- 800-□□-X10	800	9	2
LTF8□F□NH- 400-□□-X10	400	5	1	LTF8□F□NH- 900-□□-X10	900	10	2
LTF8□F□NH- 500-□□-X10	500	6	2	LTF8□F□NH-1000-□□-X10	1000	11	2

Positioning Time Guide

		Positioning time (sec.)								
Positioning d	listance (mm)	1	10	100	500	1000				
Speed	10	0.6	1.6	10.6	50.6	100.6				
	100	0.6	0.7	1.6	5.6	10.6				
(mm/s)	250	0.6	0.7	1.0	2.6	4.6				
	500	0.6	0.7	0.9	1.7	2.7				

Positioning time

A: Acceleration time

B: Constant velocity time

C: Deceleration time

D: Resting time (0.5 sec.)*

Maximum acceleration: 3000mm/s²

 The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

* Values will vary slightly depending on the operating conditions.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	t Power supply voltage (V AC) Motor model Co		Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1A	MSD021P1E	05
Industrial Co., Ltd.	200	200/230	MSM022P1A	MSD023P1E	90
Mitsubishi Electric	000	100/115		MR-C20A1	90
Corporation	200	200/230	HC-PQ23	MR-C20A	09
Yasukawa Electric	200	100/115	SGME-02BF12	SGDE-02BP	06.5
Corporation	200	200/230	SGME-02AF12	SGDE-02AP	90.5

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Horizontal Mount



Rolled Ball Screw Ø**15**mm/**20**mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight (without motor)	kg	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1
	Operating temperature range	°C	5 to 40 (with no condensation)									
Dorformonoo	Work load	kg		25								
renormance	Rated thrust	Ν					18	30				
	Maximum speed	mm/s			10	00			890	710	580	480
	Positioning repeatability	mm	±0.05									
	Motor		AC servomotor (200W)									
	Encoder		Incremental system									
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 2	0mm lea	d		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection						With c	oupling				
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)									
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)									
				Proximity	/ switch G	SXL-N12	TB (B co	ontact) (R	efer to pa	age 92 foi	r details.)	

Allowable Moment (N·m)

Allowable dynamic moment



- : Transfer load (kg)
- : Work piece acceleration (mm/s²) а
- Me: Allowable dynamic moment L : Overhang to work piece
 - center of gravity (mm)



Non-standard Motor/Horizontal Mount Specification Series LTF8

Dimensions/LTF8 F NL(X10)



Model	Stroke	n 1	n ₂	Model	Stroke	n 1	n2
LTF8□F□NL- 100-□□-X10	100	2	1	LTF8□F□NL- 600-□□-X10	600	7	2
LTF8 F NL- 200X10	200	3	1	LTF8□F□NL- 700-□□-X10	700	8	2
LTF8□F□NL- 300-□□-X10	300	4	1	LTF8□F□NL- 800-□□-X10	800	9	2
LTF8□F□NL- 400-□□-X10	400	5	1	LTF8□F□NL- 900-□□-X10	900	10	2
LTF8□F□NL- 500-□□-X10	500	6	2	LTF8□F□NL-1000-□□-X10	1000	11	2

Positioning Time Guide

		Positioning time (sec.)							
Positioning d	listance (mm)	1	10	100	500	1000			
Speed	10	0.6	1.6	10.6	50.6	100.6			
	100	0.6	0.7	1.6	5.6	10.6			
(mm/s)	500	0.6	0.7	0.9	1.7	2.7			
	1000	0.6	0.7	0.9	1.4	1.9			

Positioning time

A: Acceleration time

B: Constant velocity time

C: Deceleration time

D: Resting time (0.5 sec.)*

Maximum acceleration: 3000mm/s²

 The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

* Values will vary slightly depending on the operating conditions.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Power supply voltage (V AC) Motor model Co		Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1A	MSD021P1E	05
Industrial Co., Ltd.	200	200/230	MSM022P1A	MSD023P1E	95
Mitsubishi Electric	200	100/115		MR-C20A1	80
Corporation	200	200/230	HC-PQ23	MR-C20A	09
Yasukawa Electric	200	100/115	SGME-02BF12	SGDE-02BP	06.5
Corporation	200	200/230	SGME-02AF12	SGDE-02AP	90.5

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Vertical Mount

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600
	Body weight (without motor)	kg	1.7	2.1	2.6	3.1	3.6	4.1
	Operating temperature range	°C		5 to 4	10 (with no	condens	ation)	
Borformanaa	Work load			(6			
renormance	Rated thrust	Ν			30	00		
	Maximum speed	mm/s			300			230
	Positioning repeatability	mm	n ±0.02					
	Motor	AC servomotor (100W) with brake						
	Encoder	Incremental system						
Main parts	Lead screw	Ground ball screw ø10mm, 6mm lead						
	Guide			Fi	rame-type	linear gui	de	
	Motor/Screw connection				With c	oupling		
			Photo mic	cro sensor	EE-SX674	(Refer to	page 93 fo	or details.)
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)					
		Proximity switch GXL-N12FTB (B contact) (Refer to page 92 for details.)						
Regenerativ	ve absorption unit			Refer to	o the selec	tion guide	below.	

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg) Me : Allowable dynamic moment a : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Regenerative Absorption Unit Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
 - + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections.

Dimensions/LTF6 E PF(X10)



Positioning Time Guide

Positioning of	listance (mm)	1	10	100	300	600
	10	0.5	1.5	10.5	30.5	60.5
Speed	100	0.5	0.6	1.5	3.5	6.5
(mm/s)	150	0.5	0.6	1.2	2.5	4.5
	300	0.5	0.6	0.9	1.6	2.6

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)* Maximum acceleration: 3000mm/s²
- * The value is a guide when SMC's
- series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

-						
	Motor output (W)	Power supply voltage (V AC) Motor model Cc		Compatible driver model	Motor dimension (mm)	
Matsushita Electric	ic 100/11		MSM011P1B	MSD011P1E	105	
Industrial Co., Ltd.	100	200/230	MSM012P1B	MSD013P1E	155	
Mitsubishi Electric	100	100/115		MR-C10A1	111.5	
Corporation	100	200/230	HC-PQ13B	MR-C10A	114.5	
Yasukawa Electric	100	100/115	SGME-01BF12B	SGDE-01BP	405	
Corporation	100	200/230	SGME-01AF12B	SGDE-01AP	135	

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Vertical Mount

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600
	Body weight (without motor)	kg	1.7	2.1	2.6	3.1	3.6	4.1
	Operating temperature range	°C		5 to 4	10 (with no	condens	ation)	
Barfarmanaa	Work load	kg			3	3		
renormance	Rated thrust	Ν			18	30		
	Maximum speed	mm/s			500			390
	Positioning repeatability	±0.02						
-	Motor			AC ser	vomotor (100W) wit	h brake	
	Encoder	Incremental system						
Main parts	Lead screw		Ground ball screw ø10mm, 10mm lead					
	Guide		Frame-type linear guide					
	Motor/Screw connection		With coupling					
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)					
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)					
		Proximity switch GXL-N12FTB (B contact) (Refer to page 92 for details.)						
Regenerativ	ve absorption unit		Refer to the selection guide below.					

Allowable Moment (N·m)

Allowable dynamic moment



Refer to page 71 for deflection data.

Regenerative Absorption Unit Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
 - + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections.



Dimensions/LTF6 E PH(X10)



Positioning Time Guide

		Positioning time (sec.)									
Positioning distance (mm)		1	1 10		300	600					
Speed	10	0.5	1.5	10.5	30.5	60.5					
	100	0.5	0.6	1.5	3.5	6.5					
(mm/s)	250	0.5	0.6	0.9	1.7	2.9					
	500	0.5	0.6	0.8	1.2	1.8					

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)* Maximum acceleration: 3000mm/s²
- * The value is a guide when SMC's
- series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric Industrial Co., Ltd.	100	100/115	MSM011P1B	MSD011P1E	105
	100	200/230	MSM012P1B	MSD013P1E	155
Mitsubishi Electric	100	100/115		MR-C10A1	1115
Corporation	100	200/230	HC-PQ13B	MR-C10A	114.5
Yasukawa Electric Corporation	100	100/115	SGME-01BF12B	SGDE-01BP	125
	100	200/230	SGME-01AF12B	SGDE-01AP	130

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Vertical Mount

Rolled Ball Screw

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600
	Body weight (without motor)	kg	1.7	2.1	2.6	3.1	3.6	4.1
	Operating temperature range	°C		5 to 4	10 (with nc	condens	ation)	
Derfermenes	Work load	kg			6	3		
Performance	Rated thrust	Ν			30	00		
	Maximum speed	mm/s			300			230
	Positioning repeatability	±0.05						
-	Motor			AC ser	vomotor (100W) wit	h brake	
	Encoder	Incremental system						
Main parts	Lead screw		Rolled ball screw ø10mm, 6mm lead					
	Guide		Frame-type linear guide					
	Motor/Screw connection		With coupling					
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)					
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)					
			Proximity switch GXL-N12FTB (B contact) (Refer to page 92 for details.)					
Regenerativ	ve absorption unit		Refer to the selection guide below.					

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg) Me : Allowable dynamic moment a : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Regenerative Absorption Unit Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
 - + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections.



Dimensions/LTF6 E NF(X10)



Positioning Time Guide

		Positioning time (sec						
Positioning distance (mm)		1	1 10 [·]		300	600		
Speed	10	0.5	1.5	10.5	30.5	60.5		
	100	0.5	0.6	1.5	3.5	6.5		
(mm/s)	150	0.5	0.6	1.2	2.5	4.5		
	300	0.5	0.6	0.9	1.6	2.6		

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)* Maximum acceleration: 3000mm/s²

viaximum acceleration. 5000mm/s

 The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	100	100/115	MSM011P1B	MSD011P1E	105
Industrial Co., Ltd.		200/230	MSM012P1B	MSD013P1E	155
Mitsubishi Electric	100	100/115		MR-C10A1	1115
Corporation	100	200/230	HC-PQ13B	MR-C10A	114.5
Yasukawa Electric	100	100/115	SGME-01BF12B	SGDE-01BP	125
Corporation	100	200/230	SGME-01AF12B	SGDE-01AP	155

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Vertical Mount

Rolled Ball Screw Ø10mm/10mm lead

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	
	Body weight (without motor)	kg	1.7	2.1	2.6	3.1	3.6	4.1	
	Operating temperature range	°C		5 to 4	10 (with nc	condens	ation)		
Derfermenes	Work load	kg	3						
Performance	Rated thrust	Ν			18	30			
	Maximum speed			500			390		
	Positioning repeatability	mm	±0.05						
_	Motor			AC ser	vomotor (100W) wit	h brake		
	Encoder	Incremental system							
Main parts	Lead screw		Rolled ball screw ø10mm, 10mm lead						
	Guide		Frame-type linear guide						
	Motor/Screw connection		With coupling						
			Photo micro sensor EE-SX674 (Refer to page 93 for details.)						
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)						
		Proximity switch GXL-N12FTB (B contact) (Refer to page 92 for details.)							
Regenerativ	ve absorption unit		Refer to the selection guide below.						

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg) Me : Allowable dynamic moment a : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Regenerative Absorption Unit Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
 - + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections.



Dimensions/LTF6 E NH(X10)



Positioning Time Guide

		Positioning time (sec.)									
Positioning distance (mm)		1	1 10		300	600					
Speed	10	0.5	1.5	10.5	30.5	60.5					
	100	0.5	0.6	1.5	3.5	6.5					
(mm/s)	250	0.5	0.6	0.9	1.7	2.9					
	500	0.5	0.6	0.8	1.2	1.8					

* Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)* Maximum acceleration: 3000mm/s²
- The value is a guide when SMC's series LC1 controller is used and may
- vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric	100	100/115	MSM011P1B	MSD011P1E	105	
Industrial Co., Ltd.	100	200/230	MSM012P1B	MSD013P1E	155	
Mitsubishi Electric	100	100/115		MR-C10A1	1115	
Corporation	100	200/230	HC-PQ13B	MR-C10A	114.5	
Yasukawa Electric	100	100/115	SGME-01BF12B	SGDE-01BP	125	
Corporation	100	200/230	SGME-01AF12B	SGDE-01AP	135	

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Vertical Mount



Ground Ball Screw ø15mm/10mm lead

Dog fittings for switch are attached to all types except type "Nil".

How to Order



Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight (without motor)	kg	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)			
Borformanco	Work load	kg					1	0				
Ferrormance	Rated thrust	Ν					36	60				
	Maximum speed	mm/s		500 440 350 290 240							240	
	Positioning repeatability	mm		±0.02								
	Motor		AC servomotor (200W) with brake									
Main parts	Encoder		Incremental system									
	Lead screw		Ground ball screw ø15mm, 10mm lead									
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection						With c	oupling				
				Ph	oto micro	sensor E	E-SX674	(Refer to	o page 93	3 for deta	ils.)	
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)									
			Proximity switch GXL-N12FTB (B contact) (Refer to page 92 for details.)									
Regenerativ	ve absorption unit		Refer to the selection guide below.									

Allowable Moment (N·m)

Allowable dynamic moment



: Transfer load (kg) Me : Allowable dynamic moment : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm) : Transfer load (kg) m

Refer to page 71 for deflection data.

Regenerative Absorption Unit Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
 - + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections.



Non-standard Motor/Vertical Mount Specification Series LTF8

Dimensions/LTF8□F□PH(X10)



Model	Stroke	n 1	n ₂	Model Stroke	n 1	n ₂
LTF8□F□PH- 100K-□□-X10	100	2	1	LTF8 F PH- 600K- 600	7	2
LTF8 F PH- 200KX10	200	3	1	LTF8 F PH- 700K- 700	8	2
LTF8□F□PH- 300K-□□-X10	300	4	1	LTF8 F PH- 800K- X10 800	9	2
LTF8□F□PH- 400K-□□-X10	400	5	1	LTF8 F PH- 900K- 300	10	2
LTF8□F□PH- 500K-□□-X10	500	6	2	LTF8 F PH-1000K- 1000	11	2

Positioning Time Guide

		Positioning time (sec.)									
Positioning d	listance (mm)	1	10	100	500	1000					
	10	0.6	1.6	10.6	50.6	100.6					
Speed (mm/s)	100	0.6	0.7	1.6	5.6	10.6					
	250	0.6	0.7	1.0	2.6	4.6					
	500	0.6	0.7	0.9	1.7	2.7					

Positioning time

A: Acceleration time

B: Constant velocity time

C: Deceleration time

D: Resting time (0.5 sec.)*

Maximum acceleration: 3000mm/s²

 The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

* Values will vary slightly depending on the operating conditions.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC) 00 100/115 200/230 100/115 00 200/230 100/115 200/230	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1B	MSD021P1E	100
Industrial Co., Ltd.	200	200/230	MSM022P1B	MSD023P1E	120
Mitsubishi Electric	200	100/115		MR-C20A1	101
Corporation	200	200/230	HC-PQ23B	MR-C20A	121
Yasukawa Electric	000	100/115	SGME-02BF12B	SGDE-02BP	126
Corporation	200	200/230	SGME-02AF12B	SGDE-02AP	130

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Vertical Mount



Ground Ball Screw $\emptyset 15_{mm}/20_{mm}$ lead

How to Order



Dog fittings for switch are attached to all types except type "Nil".

Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight (without motor)	kg	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1
	Operating temperature range	°C				5 to 4) (with no	condens	sation)			
Borformanao	Work load	kg					Ę	5				
renormance	Rated thrust	Ν					18	30				
	Maximum speed	mm/s			10	00			890	710	580	480
	Positioning repeatability	mm					±0	.02				
	Motor		AC servomotor (200W) with brake									
	Encoder		Incremental system									
Main parts	Lead screw				Ģ	Fround ba	all screw of	ø15mm, 2	20mm lea	ıd		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection						With c	oupling				
				Ph	oto micro	sensor E	E-SX674	l (Refer to	o page 93	3 for deta	ils.)	
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)									
			Proximity switch GXL-N12FTB (B contact) (Refer to page 92 for details.)									
Regenerativ	ve absorption unit					Refer to	the selec	tion guid	e below.			

Allowable Moment (N·m)

Allowable dynamic moment



: Transfer load (kg) Me : Allowable dynamic moment : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm) : Transfer load (kg) m

Refer to page 71 for deflection data.

Regenerative Absorption Unit Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
 - + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections.



Non-standard Motor/Vertical Mount Specification Series LTF8

Dimensions/LTF8 F PL(X10)



Model	Stroke	n 1	n ₂	Model Stroke n	11	n ₂
LTF8□F□PL- 100K-□□-X10	100	2	1	LTF8□F□PL- 600K-□□-X10 600	7	2
LTF8□F□PL- 200K-□□-X10	200	3	1	LTF8 F PL- 700K- 700	8	2
LTF8□F□PL- 300K-□□-X10	300	4	1	LTF8 F PL- 800K- 800	9	2
LTF8□F□PL- 400K-□□-X10	400	5	1	LTF8 F PL- 900K- 900 1	10	2
LTF8□F□PL- 500K-□□-X10	500	6	2	LTF8 F PL-1000K- 1000 1	11	2

Positioning Time Guide

		Positioning time (sec.)									
Positioning d	listance (mm)	1	10	100	500	1000					
	10	0.6	1.6	10.6	50.6	100.6					
Speed (mm/s)	100	0.6	0.7	1.6	5.6	10.6					
	500	0.6	0.7	0.9	1.7	2.7					
	1000	0.6	0.7	0.9	1.4	1.9					



A: Acceleration time

B: Constant velocity time

C: Deceleration time

D: Resting time (0.5 sec.)*

Maximum acceleration: 3000mm/s²

 The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

* Values will vary slightly depending on the operating conditions.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC) 00 100/115 200/230 100/115 00 200/230 00 100/115 00 100/115	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1B	MSD021P1E	100
Industrial Co., Ltd.	200	200/230	MSM022P1B	MSD023P1E	120
Mitsubishi Electric	200	100/115		MR-C20A1	101
Corporation	200	200/230	HC-PQ23B	MR-C20A	121
Yasukawa Electric	000	100/115	SGME-02BF12B	SGDE-02BP	126
Corporation	200	200/230	SGME-02AF12B	SGDE-02AP	130

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Vertical Mount



Rolled Ball Screw ø15mm/10mm lead

How to Order



Dog fittings for switch are attached to all types except type "Nil".

Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight (without motor)	kg	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)			
Borformanoo	Work load	kg					1	0				
renormance	Rated thrust	Ν					36	60				
	Maximum speed	mm/s			50	00			440	350	290	240
	Positioning repeatability	mm					±0	.05				
	Motor		AC servomotor (200W) with brake									
	Encoder		Incremental system									
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 1	0mm lea	b		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection						With c	oupling				
				Ph	oto micro	sensor E	E-SX674	k (Refer to	o page 93	for detai	ils.)	
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for details.) Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)									
				Proximity	v switch G	GXL-N12F	TB (B co	ontact) (R	efer to pa	age 92 foi	r details.)	
Regenerativ	ve absorption unit					Refer to	the selec	tion guid	e below.			

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg) Me : Allowable dynamic moment a : Work piece acceleration (mm/s²) L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Regenerative Absorption Unit Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
 - + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections.



Non-standard Motor/Vertical Mount Specification Series LTF8

Dimensions/LTF8□F□NH(X10)



Model	Stroke	n 1	n ₂	Model Stroke	n 1	n 2
LTF8□F□NH- 100K-□□-X10	100	2	1	LTF8□F□NH- 600K-□□-X10 600	7	2
LTF8 F NH- 200KX10	200	3	1	LTF8 F NH- 700K- 700	8	2
LTF8□F□NH- 300K-□□-X10	300	4	1	LTF8 F NH- 800K- 800	9	2
LTF8□F□NH- 400K-□□-X10	400	5	1	LTF8 F NH- 900K- 0900	10	2
LTF8□F□NH- 500K-□□-X10	500	6	2	LTF8 F NH-1000K- 1000	11	2

Positioning Time Guide

		Positioning time (sec.)									
Positioning d	listance (mm)	1	10	100	500	1000					
	10	0.6	1.6	10.6	50.6	100.6					
Speed (mm/s)	100	0.6	0.7	1.6	5.6	10.6					
	250	0.6	0.7	1.0	2.6	4.6					
	500	0.6	0.7	0.9	1.7	2.7					



A: Acceleration time

- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.5 sec.)*

Maximum acceleration: 3000mm/s²

 The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

* Values will vary slightly depending on the operating conditions.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC) 00 100/115 200/230 100/115 00 200/230 100/115 200/230	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1B	MSD021P1E	100
Industrial Co., Ltd.	200	200/230	MSM022P1B	MSD023P1E	120
Mitsubishi Electric	200	100/115		MR-C20A1	101
Corporation	200	200/230	HC-PQ23B	MR-C20A	121
Yasukawa Electric	000	100/115	SGME-02BF12B	SGDE-02BP	126
Corporation	200	200/230	SGME-02AF12B	SGDE-02AP	130

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Vertical Mount



Rolled Ball Screw ø15mm/20mm lead

How to Order



Dog fittings for switch are attached to all types except type "Nil".

Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight (without motor)	kg	3.4	4.3	5.1	6.0	6.8	7.7	8.5	9.4	10.2	11.1
	Operating temperature range	°C				5 to 40	0 (with no	condens	sation)			
Borformanoo	Work load	kg					Ę	5				
renormance	Rated thrust	Ν					18	30				
	Maximum speed	mm/s			10	00			890	710	580	480
	Positioning repeatability	mm					±0	.05				
	Motor		AC servomotor (200W) with brake									
	Encoder		Incremental system									
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 2	0mm lea	b		
	Guide					Fra	ame-type	linear gu	ide			
	Motor/Screw connection						With c	oupling				
				Ph	oto micro	sensor E	E-SX674	(Refer to	o page 93	for detai	ils.)	
Switch	Model		With coupling Photo micro sensor EE-SX674 (Refer to page 93 for details.) Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)									
				Proximity	v switch G	GXL-N12F	TB (B co	ontact) (R	efer to pa	age 92 foi	r details.)	
Regenerativ	ve absorption unit					Refer to	the selec	tion guid	e below.			

Allowable Moment (N·m)

Allowable dynamic moment



a : Work piece acceleration (mm/s²)
 L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Regenerative Absorption Unit Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
 - + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections.



Non-standard Motor/Vertical Mount Specification Series LTF8

Dimensions/LTF8□F□NL(X10)



Model	Stroke	n 1	n ₂		Model	Stroke	n 1	n ₂
LTF8□F□NL- 100K-□□-X10	100	2	1	L	.TF8□F□NL- 600K-□□-X10	600	7	2
LTF8 F NL- 200KX10	200	3	1	L	.TF8□F□NL- 700K-□□-X10	700	8	2
LTF8□F□NL- 300K-□□-X10	300	4	1	L	.TF8□F□NL- 800K-□□-X10	800	9	2
LTF8□F□NL- 400K-□□-X10	400	5	1	L	.TF8□F□NL- 900K-□□-X10	900	10	2
LTF8□F□NL- 500K-□□-X10	500	6	2	L	TF8□F□NL-1000K-□□-X10	1000	11	2

Positioning Time Guide

			Positi	oning time	(sec.)	
Positioning distance (mm)		1	10	100	500	1000
Speed (mm/s)	10	0.6	1.6	10.6	50.6	100.6
	100	0.6	0.7	1.6	5.6	10.6
	500	0.6	0.7	0.9	1.7	2.7
	1000	0.6	0.7	0.9	1.4	1.9

Positioning time

A: Acceleration time

B: Constant velocity time

C: Deceleration time

D: Resting time (0.5 sec.)*

Maximum acceleration: 3000mm/s²

 The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

* Values will vary slightly depending on the operating conditions.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric	200	100/115	MSM021P1B	MSD021P1E	128	
Industrial Co., Ltd.		200/230	MSM022P1B	MSD023P1E		
Mitsubishi Electric	200	100/115	HC-PQ23B	MR-C20A1	121	
Corporation		200/230		MR-C20A		
Yasukawa Electric	200	100/115	SGME-02BF12B	SGDE-02BP	126	
Corporation		200/230	SGME-02AF12B	SGDE-02AP	130	

* Refer to pages starting with 89 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.



Series LTF Options

Non-standard Motor Cables

These are cables for connecting non-standard motors and drivers. Cable lengths other than those shown below should be arranged by the customer.



How to order



Applicable cables

Model	Manufacturer part no.			
LJ1-1-G05*1	MFMCA0050AEB (for motor) MFECA0050EAB (for encoder)			
LJ1-1-G05B	MFMCA0050AEB (for motor) MFECA0050EAB (for encoder) MFMCB0050CET (for brake)			
LJ1-1-R05	(for motor)*2 MR-JCCBL5M-L (for encoder)			
LJ1-1-Y05* ³	DP9320081-2 (for motor) DP9320089-2 (for encoder)			
LJ1-1-Y05B	DP9320083-2 (for motor/brake) DP9320089-2 (for encoder)			

*1 When the Matsushita Electric Industrial Co., Ltd. motor driver is selected, in addition to the cable, a power connector (MOLEX 5569 - 10R) and an interface connector (Sumitomo/3-M Limited 10126-3000VE) are also required.

*2 No cable is provided for the Mitsubishi Electric Corporation motor and brake. An electric cable with a sectional area of 0.75 mm² (600 V vinyl cable) must be procured by the customer.

*3 When the Yasukawa Electric Corporation motor driver is selected, a digital operator and PC are required for selecting the various parameters.

Please refer to the technical literature of each manufacturer for further details.

Non-standard Motor Driver Regenerative Absorption Unit/Regenerative Resistor

This is a regenerative absorption unit and regenerative resistor for a nonstandard motor. Make a selection providing an allowance beyond the calculated capacity.





- G Matsushita Electric Industrial Co., Ltd.
- R Mitsubishi Electric Corporation
- Y Yasukawa Electric Corporation

Applicable types

_TF (non-standard motor)

Model	Manufacturer part no.	
LJ1-7-G	DVO P0820	
LJ1-7-R	MR-RB013	
LJ1-7-Y	JUSP-RG08	

LJ1-7-G/Matsushita Electric Industrial Co., Ltd.



LJ1-7-R/Mitsubishi Electric Corporation



LJ1-7-Y/Yasukawa Electric Corporation



Series LTF Construction

Construction

LTF6/LTF8



Parts list

No.	Description	Material	Note
1	AC servomotor	_	100W/200W
2	Lead screw		Ball screw
3	Frame-type linear guide	_	
4	Coupling		
5	Bearing R	-	
6	Bearing F		
7	Housing A	Aluminum alloy	
8	Housing B	Aluminum alloy	
9	Bearing retainer	Carbon steel	

No.	Description	Material	Note
10	Spacer	Stainless steel	
11	Bumper bolt	Alloy steel	
12	Bumper	Resin	
13	Housing plate	Mild steel	
14	Cable clip	Resin	
15	Photo micro sensor rail	Aluminum alloy	
16	Dog fitting for switch	Mild steel	Chromate
17	Photo micro sensor		
18	Connector cable for sensor		

Series LTF Mounting

Top Mount

LTF6



LTF8



Mounting hole quantity

Stroke	n	Quantity	Stroke	n	Quantity
100	2	4	600	7	14
200	3	6	700	8	16
300	4	8	800	9	18
400	5	10	900	10	20
500	6	12	1000	11	22

Non-standard Motor Mounting Dimensions

LTF6





Motor mounting area dimensions

Manufacturer	Mitsubishi Electric Corporation Yasukawa Electric Corporation	Matsushita Electric Industrial Co., Ltd.	
C (Thread size)	M4 x 0.7	M3 x 0.5	
Effective thread length (mm)	8	6	
Quantity	2	4	
P.C.D.	46	45	

When mounting a coupling on the motor, mount it within the dimensional range shown on the left.



Section AA (Housing interior)



Coupling mounting dimensions*

Non-standard Motor Mounting Dimensions

LTF8





Motor mounting area dimensions

Manufacturer	Mitsubishi Electric Corporation Yasukawa Electric Corporation	Matsushita Electric Industrial Co., Ltd.	
C (Thread size)	M5 x 0.8	M4 x 0.7	
Effective thread length (mm)	10	8	
Quantity	4	4	
P.C.D.	70	75	

* When mounting a coupling on the motor, mount it within the dimensional range shown on the left.



Section AA (Housing interior)

Coupling mounting dimensions*

Series LTF Deflection Data

Deflection Data

The load and the amount of deflection at load point W are shown in the graphs below for each series.

LTF6

LTF8

SMC

Figure 1. Horizontal

Figure 2. Lateral