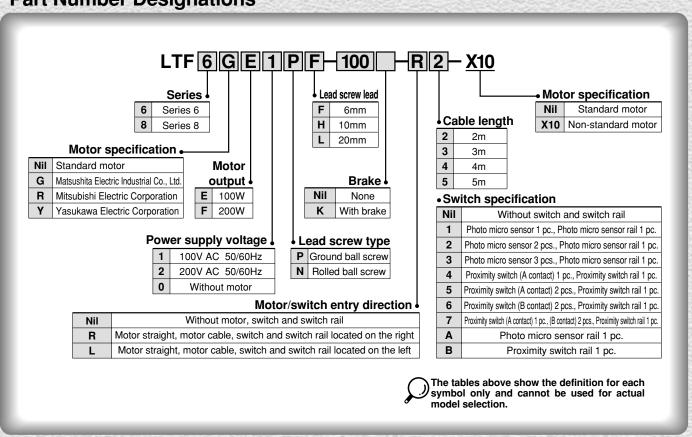
Electric Actuator with Integrated Guide

Series LTF

Series	Motor type	Guide type	Mounting	Model	Lead screv	v lead mm	Page	
Series	wotor type	Guide type	orientation	Model	Ground ball screw	Rolled ball screw	Page	
			Horizontal	LTF6	6 10	6 10	P.2	
	Standard		Horizoniai	LTF8	10 20	10 20	P.10	
	motor		Vertical	LTF6	6 10	6 10	P.18	
LTF		Frame-type	vertical	LTF8	10 20	10 20	P.26	
LIF		linear guide	Horizontal	LTF6	6 10	6 10	P.34	
	Non-standard			попідопіаї	LTF8	10 20	10 20	P.42
	motor		Vertical	LTF6	6 10	6 10	P.50	
8			vertical	LTF8	10 20	10 20	P.58	

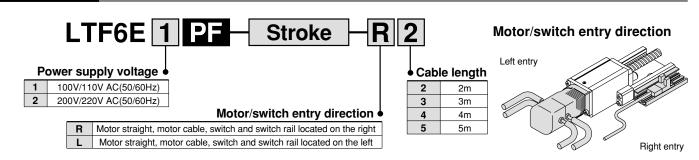
■ Options ———	P.66
■ Construction ———	P.67
■ Mounting —	P.68
■ Non-standard Motor Mounting ————	P.69
■ Deflection Data ————	P.71

Part Number Designations





How to Order

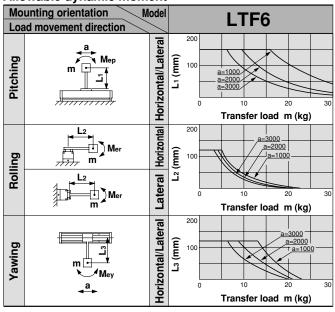


Specifications

	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	0 (with no	condens	ation)	
Performance	Work load	kg			3	0		
	Rated thrust	N			30	00		
	Maximum speed	mm/s	300 23					
	Positioning repeatability	mm	±0.02					
	Motor		AC servomotor (100W)					
	Encoder				Increment	al 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)

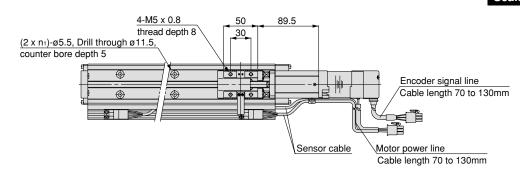
Allowable dynamic moment

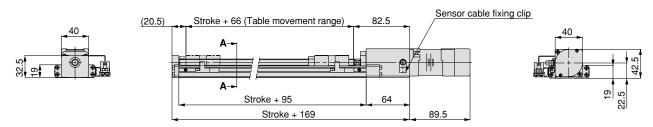


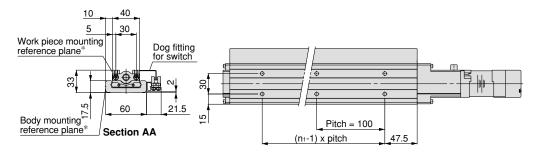
Me : Allowable dynamic moment L : Overhang to work piece center of gravity (mm) : Work piece acceleration (mm/s²)

Dimensions/LTF6E□PF

Scale: 18%







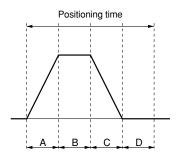
Model	Stroke	n ₁
LTF6E□PF- 100-□□	100	2
LTF6E□PF- 200-□□	200	3
LTF6E□PF- 300-□□	300	4
LTF6E□PF- 400-□□	400	5
LTF6E□PF- 500-□□	500	6
LTF6E□PF- 600-□□	600	7

* 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		
Speed (mm/s)	150	0.5	0.6	1.2	2.5	4.5		
	300	0.5	0.6	0.9	1.6	2.6		

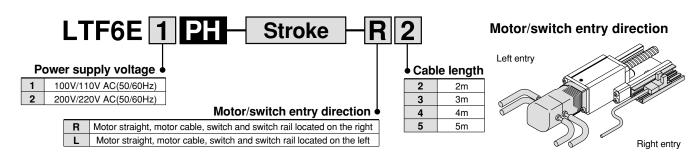
^{*} Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)



How to Order

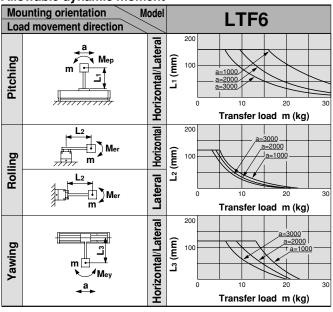


Specifications

	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	°C		5 to 4	10 (with no	condens	ation)		
Performance	Work load	kg			1	5			
Periormance	Rated thrust	N			18	30			
	Maximum speed	mm/s						390	
	Positioning repeatability	mm							
	Motor		AC servomotor (100W)						
	Encoder		Incremental system						
Main parts	Lead screw			Ground b	all screw @	310mm, 1	0mm 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		LC1-1H2HH□-□□ (Refer to page 73 for details.)					ails.)	

Allowable Moment (N·m)

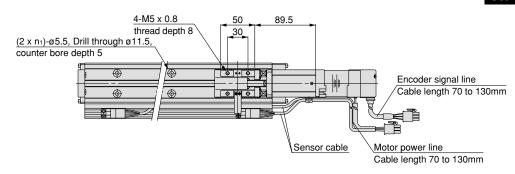
Allowable dynamic moment

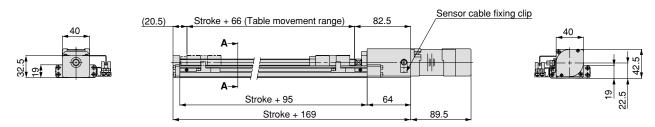


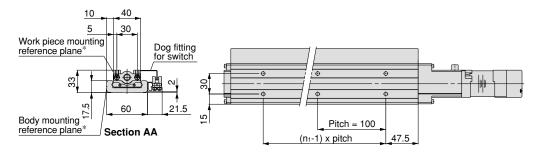
Me : Allowable dynamic moment L : Overhang to work piece center of gravity (mm) : Work piece acceleration (mm/s²)

Dimensions/LTF6E□PH

Scale: 18%







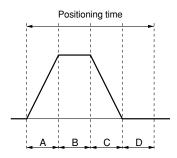
Model	Stroke	n ₁
LTF6E□PH- 100-□□	100	2
LTF6E□PH- 200-□□	200	3
LTF6E□PH- 300-□□	300	4
LTF6E□PH- 400-□□	400	5
LTF6E□PH- 500-□□	500	6
LTF6E□PH- 600-□□	600	7

* 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		
Speed (mm/s)	250	0.5	0.6	0.9	1.7	2.9		
	500	0.5	0.6	0.8	1.2	1.8		

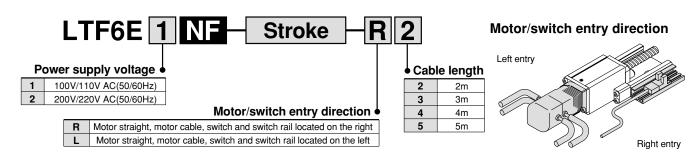
^{*} Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)



How to Order

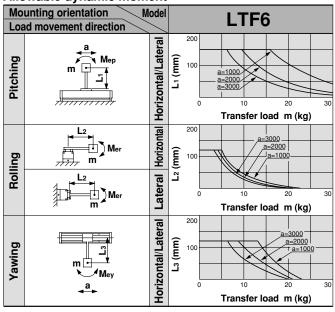


Specifications

	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	0 (with no	condens	ation)		
Performance	Work load	kg			3	0			
Periormance	Rated thrust	N			30	00			
	Maximum speed	mm/s	300 230						
	Positioning repeatability	mm	±0.05						
	Motor			Α	C servom	otor (100V	V)		
	Encoder				Increment	tal 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)

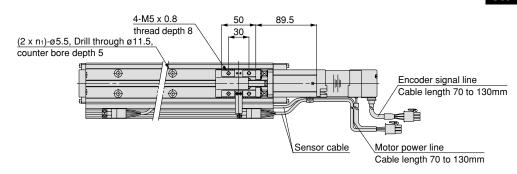
Allowable dynamic moment

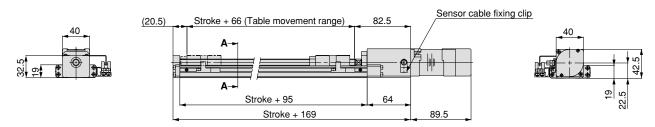


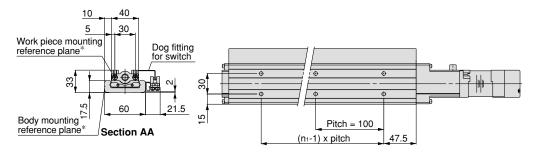
Me : Allowable dynamic moment L : Overhang to work piece center of gravity (mm) : Work piece acceleration (mm/s²)

Dimensions/LTF6E□NF

Scale: 18%







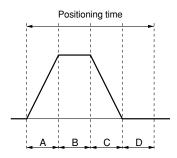
Model	Stroke	n ₁
LTF6E□NF- 100-□□	100	2
LTF6E□NF- 200-□□	200	3
LTF6E□NF- 300-□□	300	4
LTF6E□NF- 400-□□	400	5
LTF6E□NF- 500-□□	500	6
LTF6E□NF- 600-□□	600	7

* 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		
Speed (mm/s)	150	0.5	0.6	1.2	2.5	4.5		
	300	0.5	0.6	0.9	1.6	2.6		

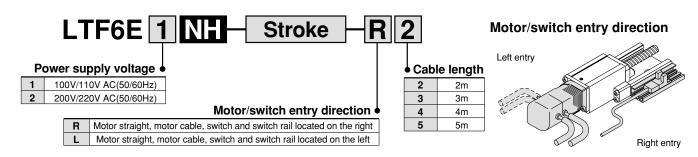
^{*} Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)



How to Order

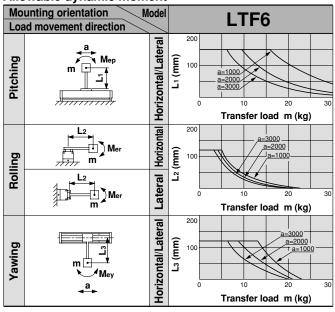


Specifications

	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			
Periormance	Rated thrust	N			18	30			
	Maximum speed	mm/s	500 390						
	Positioning repeatability	mm	±0.05						
	Motor			Α	C servom	otor (100V	V)		
	Encoder				Increment	tal 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

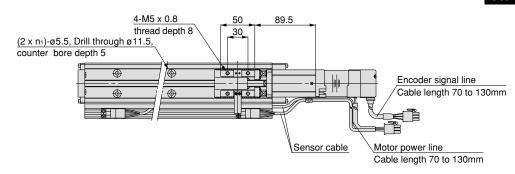


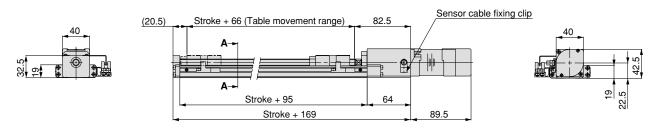
Me : Allowable dynamic moment L : Overhang to work piece center of gravity (mm) : Work piece acceleration (mm/s²)

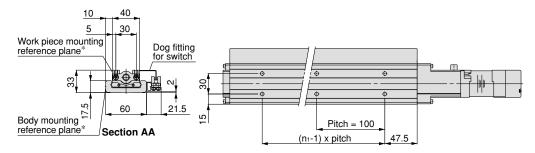


Dimensions/LTF6E□NH

Scale: 18%







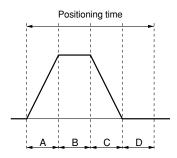
Model	Stroke	n ₁
LTF6E□NH- 100-□□	100	2
LTF6E□NH- 200-□□	200	3
LTF6E□NH- 300-□□	300	4
LTF6E□NH- 400-□□	400	5
LTF6E□NH- 500-□□	500	6
LTF6E□NH- 600-□□	600	7

* 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 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						
Speed (mm/s)	250	0.5	0.6	0.9	1.7	2.9						
	500	0.5	0.6	0.8	1.2	1.8						

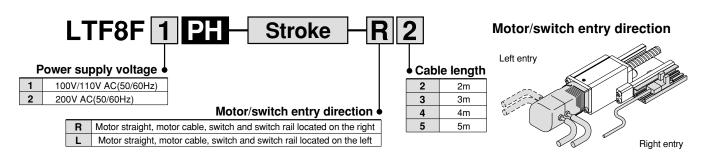
^{*} Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)



How to Order

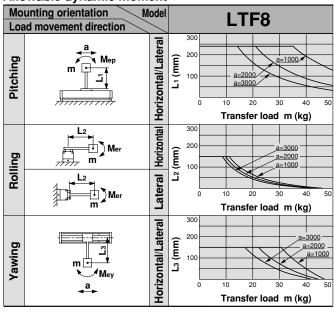


Specifications

	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	e °C	5 to 40 (with no condensation)										
Performance	Work load	kg					5	0					
Periormance	Rated thrust	N					36	60					
	Maximum speed	mm/s	500 440 350 290									240	
	Positioning repeatability	mm	±0.02										
	Motor					AC	C servom	otor (200	W)				
	Encoder					ı	Incremen	tal syster	n				
Main parts	Lead screw				G	around ba	all screw	ø15mm,	10mm lea	ad			
	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	9 73 for d	etails.)	·		

Allowable Moment (N·m)

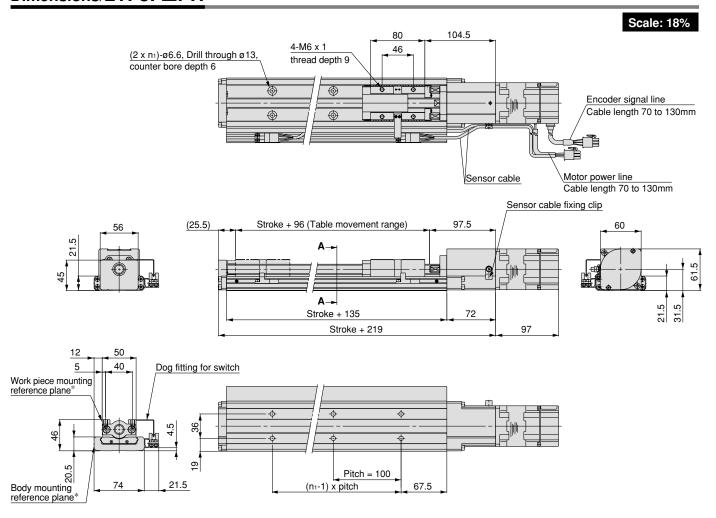
Allowable dynamic moment



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



Dimensions/LTF8F□PH



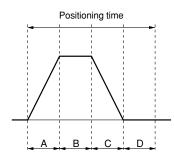
Model	Stroke	n ₁
LTF8F□PH- 100-□□	100	2
LTF8F□PH- 200-□□	200	3
LTF8F□PH- 300-□□	300	4
LTF8F□PH- 400-□□	400	5
LTF8F□PH- 500-□□	500	6
LTF8F□PH- 600-□□	600	7
LTF8F□PH- 700-□□	700	8
LTF8F□PH- 800-□□	800	9
LTF8F□PH- 900-□□	900	10
LTF8F□PH-1000-□□	1000	11

* 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 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							
Speed (mm/s)	250	0.6	0.7	1.0	2.6	4.6							
	500	0.6	0.7	0.9	1.7	2.7							

st Values will vary slightly depending on the operating conditions.

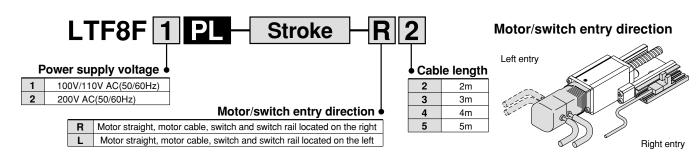


- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.5 sec.)

Standard Motor Horizontal Mount

Series LTF8

How to Order

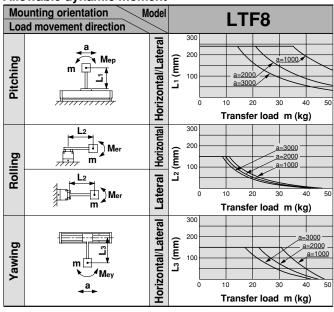


Specifications

	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	o°C	5 to 40 (with no condensation)										
Dorformonoo	Work load	kg					2	5					
Performance	Rated thrust	N					18	30					
	Maximum speed	mm/s	1000 890 710 580									480	
	Positioning repeatability	mm	m ±0.02										
	Motor		AC servomotor (200W)										
	Encoder					I	ncremen	tal systen	n				
Main parts	Lead screw				G	iround ba	all screw	ø15mm, 2	20mm 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	H3HL□-[□□ (Refe	er to page	73 for de	etails.)	·		

Allowable Moment (N·m)

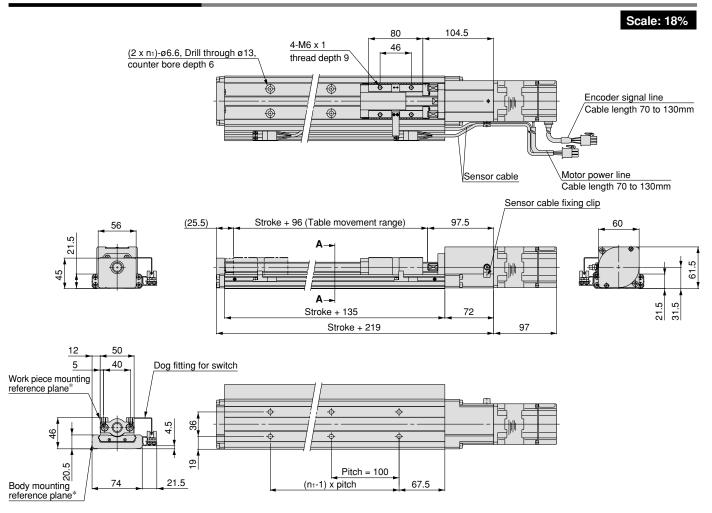
Allowable dynamic moment



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



Dimensions/LTF8F PL



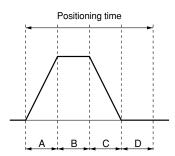
Model	Stroke	n ₁
LTF8F□PL- 100-□□	100	2
LTF8F□PL- 200-□□	200	3
LTF8F□PL- 300-□□	300	4
LTF8F□PL- 400-□□	400	5
LTF8F□PL- 500-□□	500	6
LTF8F□PL- 600-□□	600	7
LTF8F□PL- 700-□□	700	8
LTF8F□PL- 800-□□	800	9
LTF8F□PL- 900-□□	900	10
LTF8F□PL-1000-□□	1000	11

* 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	distance (mm)	1	10	100	500	1000						
10	10	0.6	1.6	10.6	50.6	100.6						
Speed	100	0.6	0.7	1.6	5.6	10.6						
Speed (mm/s)	500	0.6	0.7	0.9	1.7	2.7						
	1000	0.6	0.7	0.9	1.4	1.9						

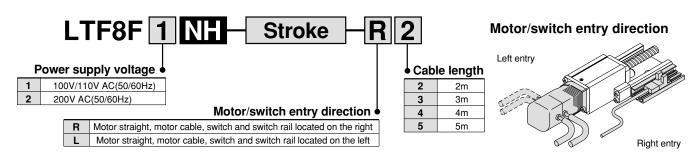
^{*} Values will vary slightly depending on the operating conditions.



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



How to Order

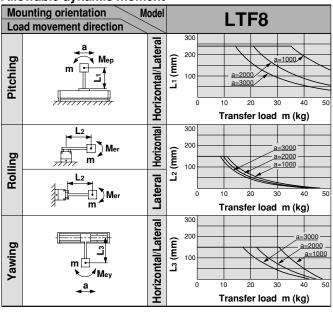


Specifications

	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	o°C	5 to 40 (with no condensation)										
Performance	Work load	kg					5	0					
Periormance	Rated thrust	N					36	50					
	Maximum speed	mm/s	500 440 350 290									240	
	Positioning repeatability	mm	±0.05										
	Motor					AC	c servom	otor (200	W)				
	Encoder					I	ncremen	tal systen	n				
Main parts	Lead screw				F	Rolled ba	ll screw ø	15mm, 1	0mm lead	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	Н3НН□-	□□ (Refe	er to page	73 for d	etails.)	·		

Allowable Moment (N·m)

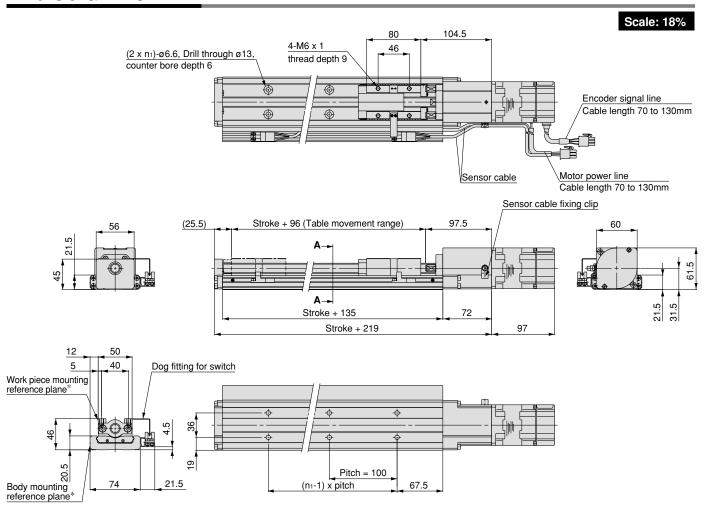
Allowable dynamic moment



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



Dimensions/LTF8F NH



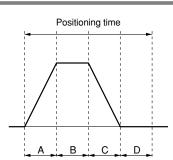
Model	Stroke	n ₁
LTF8F□NH- 100-□□	100	2
LTF8F□NH- 200-□□	200	3
LTF8F□NH- 300-□□	300	4
LTF8F□NH- 400-□□	400	5
LTF8F□NH- 500-□□	500	6
LTF8F□NH- 600-□□	600	7
LTF8F□NH- 700-□□	700	8
LTF8F□NH- 800-□□	800	9
LTF8F□NH- 900-□□	900	10
LTF8F□NH-1000-□□	1000	11

* 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 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						
Speed (mm/s)	250	0.6	0.7	1.0	2.6	4.6						
	500	0.6	0.7	0.9	1.7	2.7						

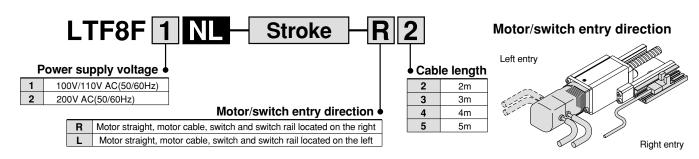
^{*} Values will vary slightly depending on the operating conditions.



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



How to Order

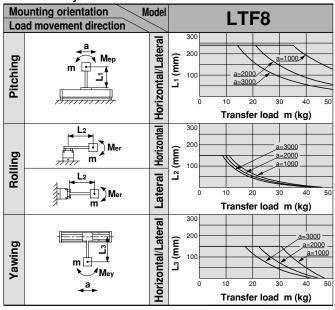


Specifications

	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	e °C	5 to 40 (with no condensation)										
Davisavasas	Work load	kg					2	:5					
Performance	Rated thrust	N					18	30					
	Maximum speed	mm/s	1000 890 710 580 480										
	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, 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	H3HL□-[□□ (Refe	er to page	73 for de	etails.)	·		

Allowable Moment (N·m)

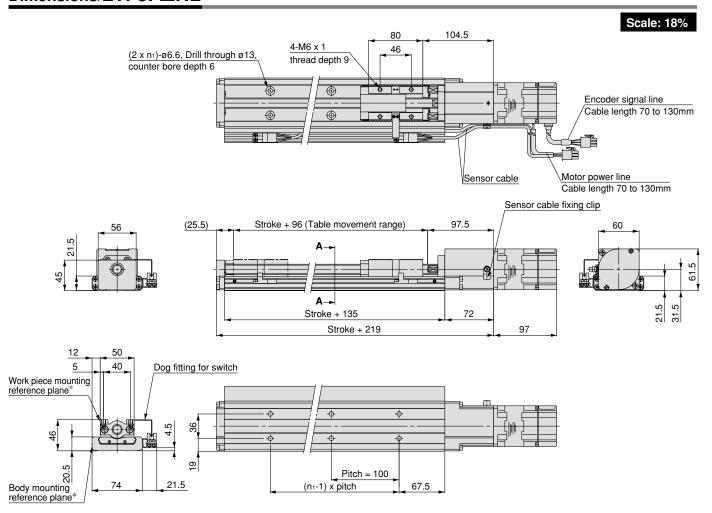
Allowable dynamic moment



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



Dimensions/LTF8F NL



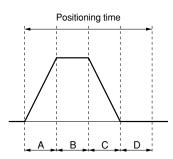
Model	Stroke	n ₁
LTF8F□NL- 100-□□	100	2
LTF8F□NL- 200-□□	200	3
LTF8F□NL- 300-□□	300	4
LTF8F□NL- 400-□□	400	5
LTF8F□NL- 500-□□	500	6
LTF8F□NL- 600-□□	600	7
LTF8F □NL- 700-□□	700	8
LTF8F□NL- 800-□□	800	9
LTF8F□NL- 900-□□	900	10
LTF8F□NL-1000-□□	1000	11

* 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

			Positioning time (sec.)						
Positioning of	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			
(mm/s)	500	0.6	0.7	0.9	1.7	2.7			
	1000	0.6	0.7	0.9	1.4	1.9			

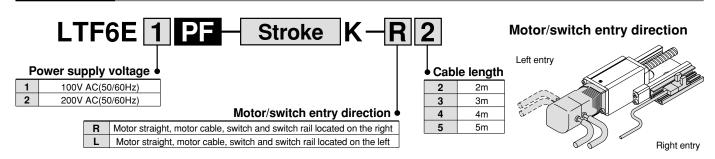
^{*} Values will vary slightly depending on the operating conditions.



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



How to Order



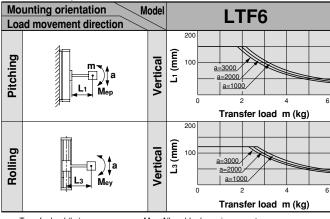
Specifications

	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 Work load kg				5 to 4	0 (with no	condens	ation)	
					6	3		
Performance	Rated thrust	N	300 /s 300					
	Maximum speed	mm/s						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			Fr	ame-type	linear gui	de	
	Motor/Screw connection				With co	oupling		
Switch	Model		Photo micro sensor EE-SX674 (Refer to page 93 for detail				r details.)	
Controller	Model		LC1-1H2VF□-□□ (Refer to page 73 for details.)				ails.)	
Regenerative absorption unit	Model		LC7	'R-K1□A[□□ (Refer	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

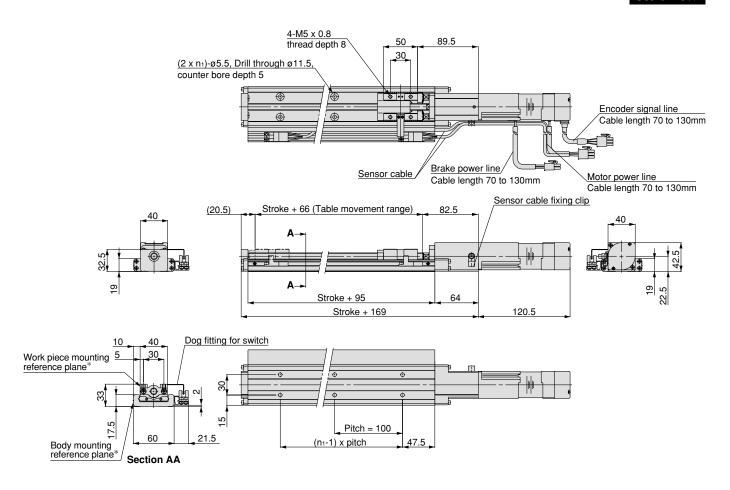


 $\begin{array}{ll} m & : \mbox{ Transfer load (kg)} \\ a & : \mbox{ Work piece acceleration (mm/s²)} \end{array}$

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

$\underline{\text{Dimension}} \text{s/LTF6E} \square \text{PF}$

Scale: 18%



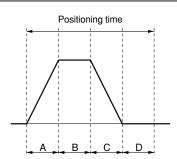
Model	Stroke	n ₁
LTF6E□PF- 100K-□□	100	2
LTF6E□PF- 200K-□□	200	3
LTF6E□PF- 300K-□□	300	4
LTF6E□PF- 400K-□□	400	5
LTF6E□PF- 500K-□□	500	6
LTF6E□PF- 600K-□□	600	7

* 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

			Positi	oning 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
Speed (mm/s)	150	0.5	0.6	1.2	2.5	4.5
	300	0.5	0.6	0.9	1.6	2.6

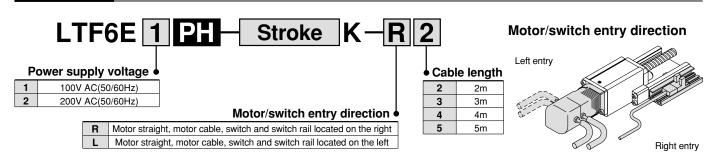
^{*} Values will vary slightly depending on the operating conditions.



- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)



How to Order



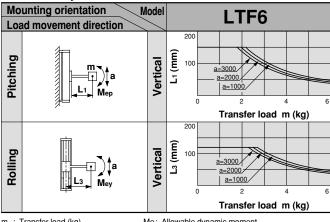
Specifications

	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 4	0 (with no	condensa	ation)		
Performance	Work load	kg			3	3			
Periormance	Rated thrust N 180								
	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			Fr	ame-type	linear gui	de		
	Motor/Screw connection				With co	oupling			
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[□□ (Refer	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

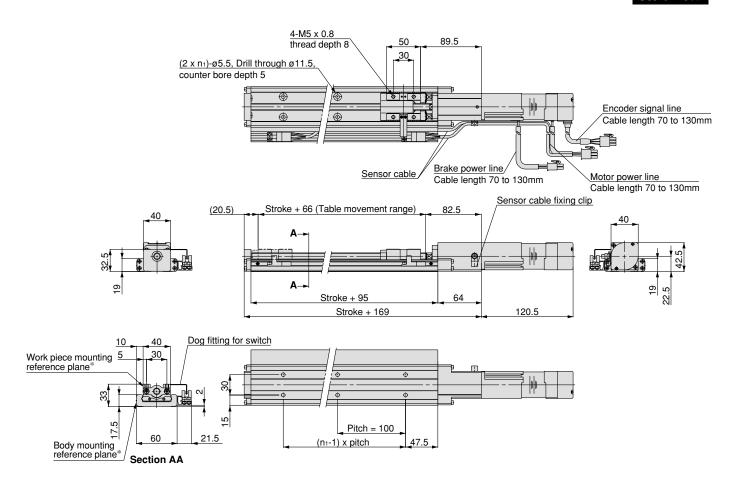


: Transfer load (kg) : Work piece acceleration (mm/s²)

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

$\underline{\text{Dimension}} \text{s/LTF6E} \square \text{PH}$

Scale: 18%



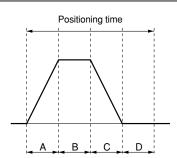
Model	Stroke	n ₁
LTF6E□PH- 100K-□□	100	2
LTF6E□PH- 200K-□□	200	3
LTF6E□PH- 300K-□□	300	4
LTF6E□PH- 400K-□□	400	5
LTF6E□PH- 500K-□□	500	6
LTF6E□PH- 600K-□□	600	7

* 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

			Positi	oning 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
Speed (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.

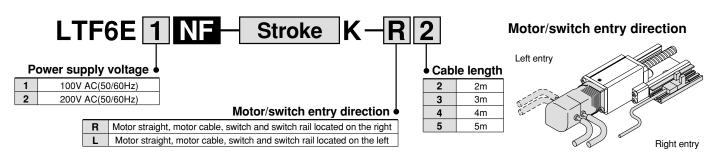


- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)

Standard Motor Vertical Mount

Series LTF6

How to Order



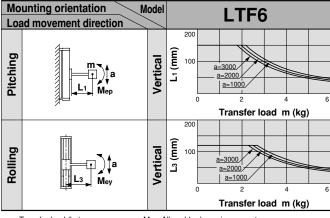
Specifications

	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 4	0 (with no	condensa	ation)	
Work load k		kg			6	6		
Performance	Rated thrust	N			30	00		
	Maximum speed	mm/s			300			230
	Positioning repeatability			±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 co	oupling		
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[⊒⊟ (Refer	to page 8	36 for deta	ils.)

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

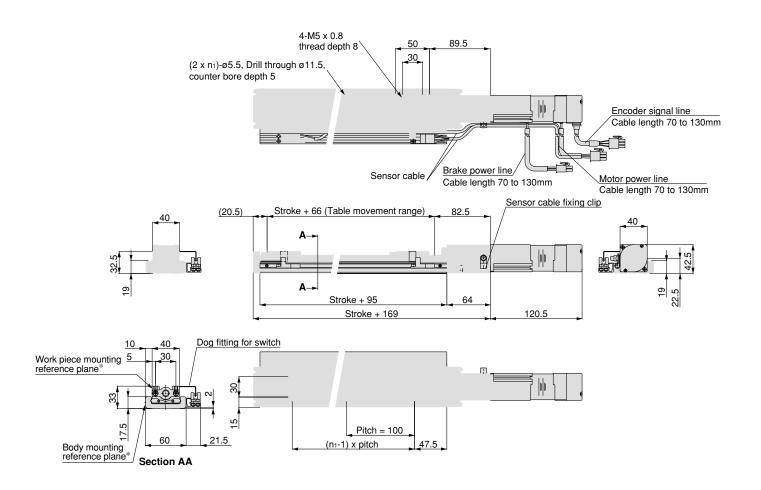
Allowable Moment (N·m)

Allowable dynamic moment



: Transfer load (kg) : Work piece acceleration (mm/s²)

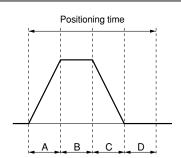
Me: Allowable dynamic moment L : Overhang to work piece center of gravity (mm)



Model	Stroke	n ₁
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

			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			

 $[\]ast$ Values will vary slightly depending on the operating conditions.

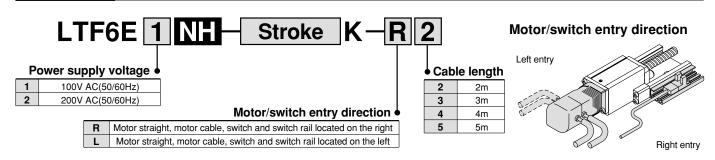


- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)

Standard Motor Vertical Mount

Series LTF6

How to Order



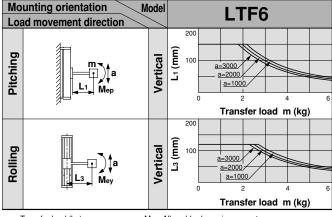
Specifications

	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 4	0 (with no	condensa	ation)		
Performance	Work load	kg			3	3			
Rated thrust N 180									
	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 co	oupling			
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[□□ (Refer	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

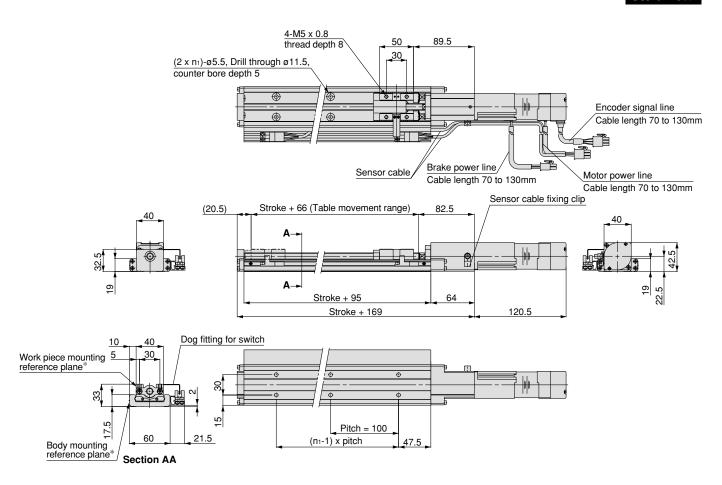


: Transfer load (kg) : Work piece acceleration (mm/s²)

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

$\underline{\text{Dimension}} \text{s/LTF6E} \square \text{NH}$

Scale: 18%



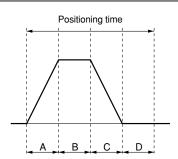
Model	Stroke	n ₁
LTF6E□NH- 100K-□□	100	2
LTF6E□NH- 200K-□□	200	3
LTF6E□NH- 300K-□□	300	4
LTF6E□NH- 400K-□□	400	5
LTF6E□NH- 500K-□□	500	6
LTF6E□NH- 600K-□□	600	7

* 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						
Speed (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.

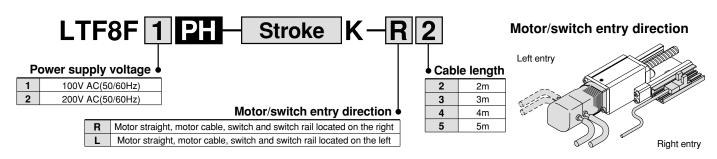


- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.4 sec.)

Standard Motor Vertical Mount

Series LTF8

How to Order



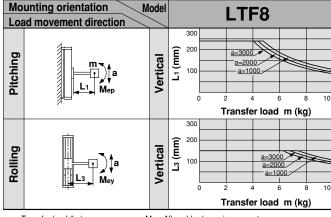
Specifications

	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	e °C	5 to 40 (with no condensation)										
Daufaumanaa	Work load	kg					1	0					
Performance	Rated thrust	N					30	60					
	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			Ground ball screw ø15mm, 10mm lead									
	Guide					Fra	ame-type	linear gu	ide				
	Motor/Screw connection						With c	oupling					
Switch	Model			Р	hoto micro	sensor l	EE-SX674	4 (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	r to page	86 for de	tails.)			

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

Allowable Moment (N·m)

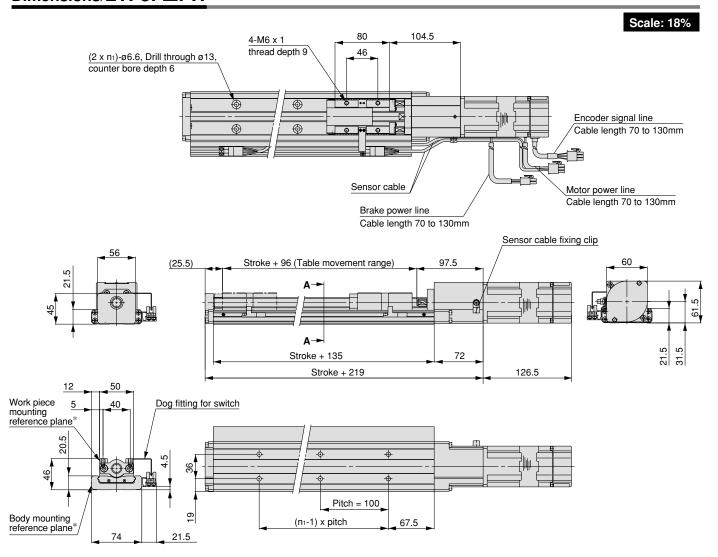
Allowable dynamic moment



m : Transfer load (kg) Me: Allowab a : Work piece acceleration (mm/s²) L : Overhai

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

Dimensions/LTF8F□PH



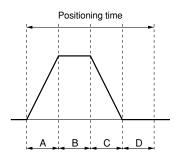
Model	Stroke	n ₁
LTF8F□PH- 100K-□□	100	2
LTF8F□PH- 200K-□□	200	3
LTF8F□PH- 300K-□□	300	4
LTF8F□PH- 400K-□□	400	5
LTF8F□PH- 500K-□□	500	6
LTF8F□PH- 600K-□□	600	7
LTF8F□PH- 700K-□□	700	8
LTF8F□PH- 800K-□□	800	9
LTF8F□PH- 900K-□□	900	10
LTF8F□PH-1000K-□□	1000	11

* 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						
Speed (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.



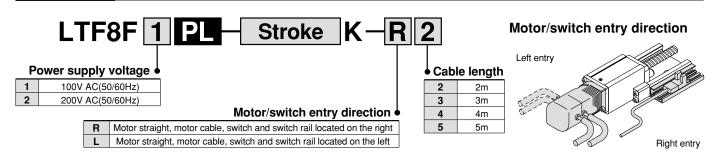
- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.5 sec.)



Standard Motor Vertical Mount

Series LTF8

How to Order



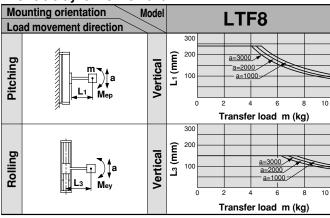
Specifications

	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	e °C		5 to 40 (with no condensation)									
Dawfaumanaa	Work load	kg						5					
Performance	Rated thrust	N					18	30					
	Maximum speed m				10	00			890	710	580	480	
	Positioning repeatability	mm	±0.02										
	Motor		AC servomotor (200W) with brake										
_	Encoder		Incremental system										
Main parts	Lead screw				G	around ba	all screw	ø15mm, 2	20mm lea	ıd			
	Guide					Fra	ame-type	linear gu	ide				
	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	r 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



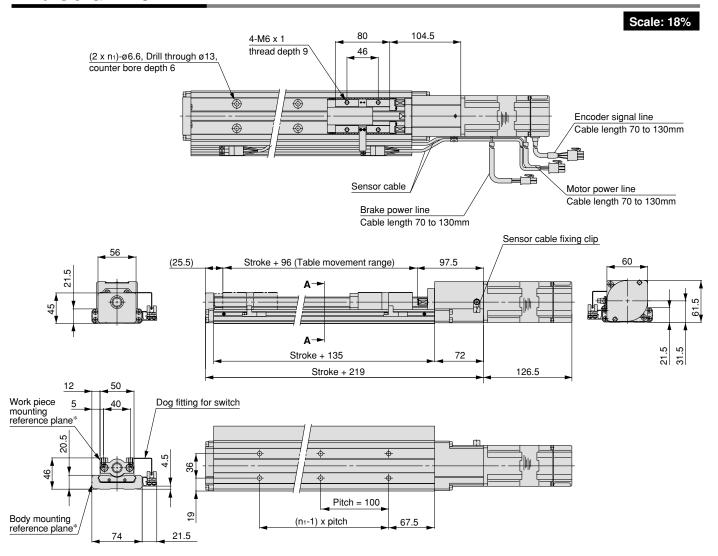
: Transfer load (kg) : Work piece acceleration (mm/s²)

Refer to page 71 for deflection data.

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



Dimensions/LTF8F PL



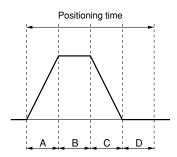
Model	Stroke	n ₁
LTF8F□PL- 100K-□□	100	2
LTF8F□PL- 200K-□□	200	3
LTF8F□PL- 300K-□□	300	4
LTF8F□PL- 400K-□□	400	5
LTF8F□PL- 500K-□□	500	6
LTF8F□PL- 600K-□□	600	7
LTF8F□PL- 700K-□□	700	8
LTF8F□PL- 800K-□□	800	9
LTF8F□PL- 900K-□□	900	10
LTF8F□PL-1000K-□□	1000	11

^{*} 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.



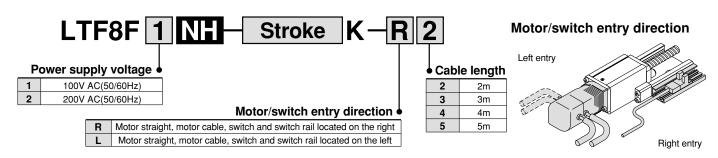
- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.5 sec.)



Standard Motor Vertical Mount

Series LTF8

How to Order



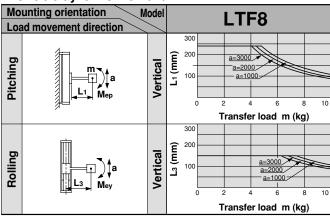
Specifications

	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	e °C		5 to 40 (with no condensation)									
Dorformonoo	Work load	kg					1	0					
Performance	Rated thrust	N					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				ı	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	sensor l	EE-SX674	Refer to	page 93	for details	s.)		
Controller	Model				LC1-1	Н3∨Н□-	□□ (Ref	er to page	9 73 for d	etails.)			
Regenerative absorption unit	Model				LC7F	R-K1□A□	□□ (Refe	r to page	86 for de	tails.)			

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

Allowable Moment (N·m)

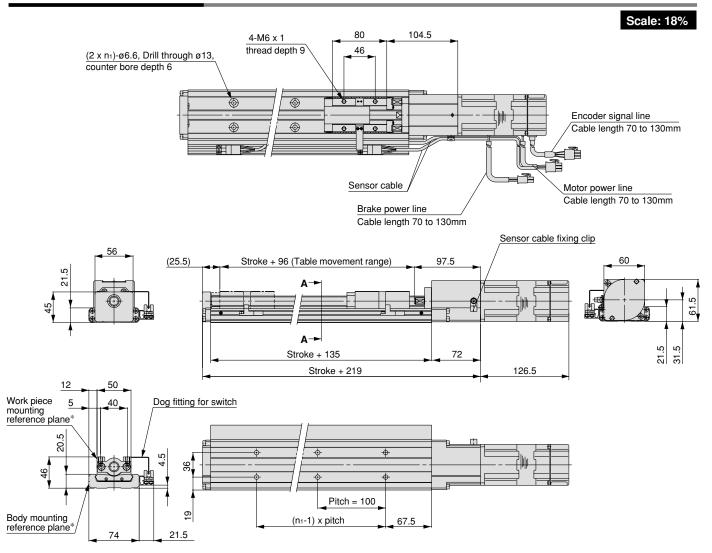
Allowable dynamic moment



: Transfer load (kg) : Work piece acceleration (mm/s²)

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

Dimensions/LTF8F NH



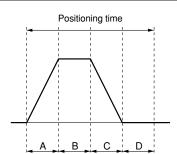
Model	Stroke	n ₁
LTF8F□NH- 100K-□□	100	2
LTF8F□NH- 200K-□□	200	3
LTF8F□NH- 300K-□□	300	4
LTF8F□NH- 400K-□□	400	5
LTF8F□NH- 500K-□□	500	6
LTF8F□NH- 600K-□□	600	7
LTF8F□NH- 700K-□□	700	8
LTF8F□NH- 800K-□□	800	9
LTF8F□NH- 900K-□□	900	10
LTF8F□NH-1000K-□□	1000	11

* 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	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						
Speed (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.



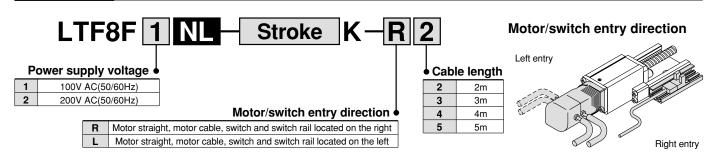
- A: Acceleration time
- B: Constant velocity time
- C: Deceleration time
- D: Resting time (0.5 sec.)



Standard Motor Vertical Mount

Series LTF8

How to Order



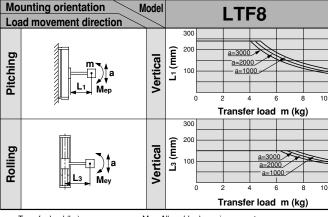
Specifications

	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	o°C				5 to 4	0 (with no	condens	sation)			
Dawfawmanaa	Work load	kg					į	5				
Performance	Rated thrust	N					18	30				
	Maximum speed	mm/s			10	00			890	710	580	480
	Positioning repeatability	mm	±0.05									
	Motor					AC serv	omotor (200W) wi	th brake			
	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				
Switch	Model			Р	hoto micro	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	r to page	86 for de	tails.)		

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

Allowable Moment (N·m)

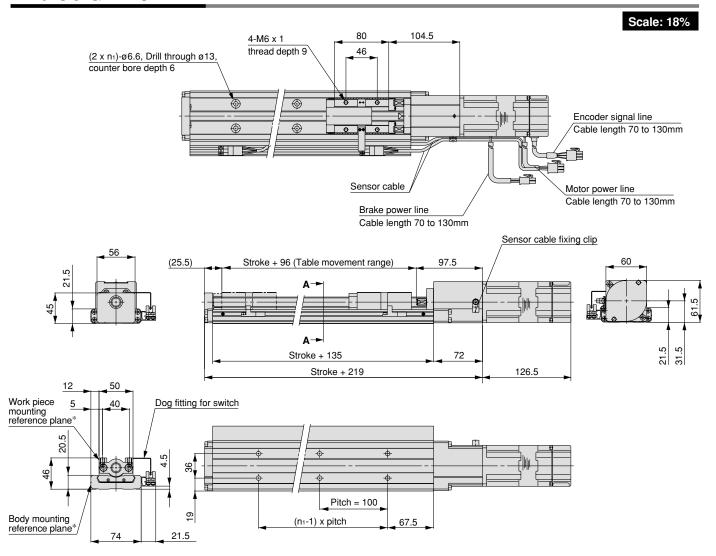
Allowable dynamic moment



: Transfer load (kg) : Work piece acceleration (mm/s²)

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

Dimensions/LTF8F NL



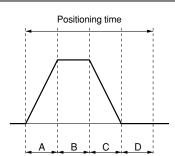
Model	Stroke	n ₁
LTF8F□NL- 100K-□□	100	2
LTF8F□NL- 200K-□□	200	3
LTF8F□NL- 300K-□□	300	4
LTF8F□NL- 400K-□□	400	5
LTF8F□NL- 500K-□□	500	6
LTF8F□NL- 600K-□□	600	7
LTF8F□NL- 700K-□□	700	8
LTF8F□NL- 800K-□□	800	9
LTF8F□NL- 900K-□□	900	10
LTF8F□NL-1000K-□□	1000	11

* 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

Po				oning time	(sec.)	
Positioning of	listance (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

^{*} 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.)



Non-standard Motor

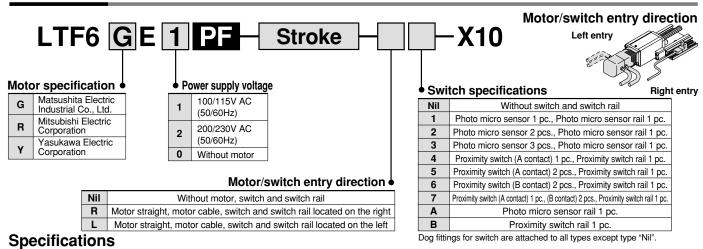
Horizontal Mount

Series LTF6





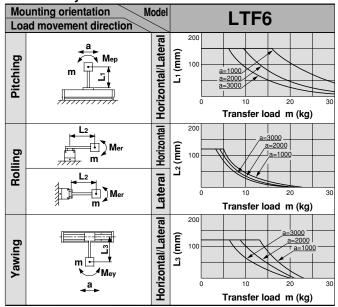
How to Order



	Standard stroke	mm	100	200	300	400	500	600
Performance	Body weight (without motor)	kg	1.7	2.1	2.6	3.1	3.6	4.1
	Operating temperature range	5 to 40 (with no condensation)						
	Work load	kg	30					
	Rated thrust	N			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			Photo micro sensor EE-SX674 (Refer to page 93 for details.)					
	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.)					

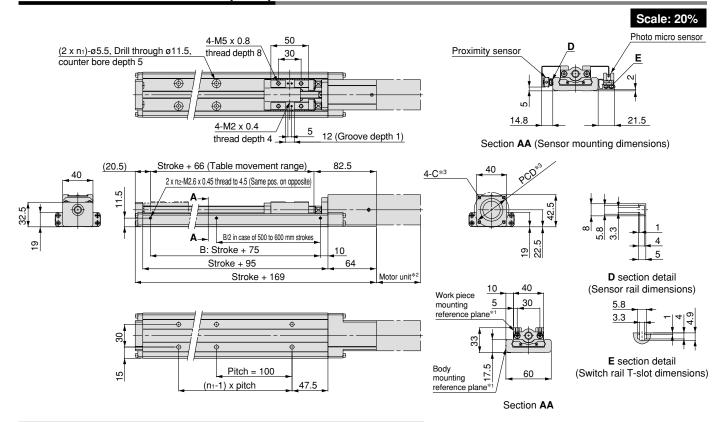
Allowable Moment (N·m)

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□PF(X10)



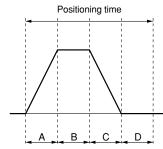
Model	Stroke	n ₁	n ₂
LTF6□E□PF- 100-□□-X10	100	2	1
LTF6□E□PF- 200-□□-X10	200	3	1
LTF6□E□PF- 300-□□-X10	300	4	1
LTF6□E□PF- 400-□□-X10	400	5	1
LTF6□E□PF- 500-□□-X10	500	6	2
LTF6□E□PF- 600-□□-X10	600	7	2

- *1. The body and work piece mounting reference planes are to be used as guidelines for equipment mounting. Refer to page 68 for the mounting procedure.
- *2. For the motor dimensions, refer to "Non-standard Motor."
- *3. For the dimensions of the motor mounting position, refer to the dimensions on page 69 for the guidelines for assembly and designing.

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 (mm/s)	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

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		100/115	UO DO40	MR-C10A1		
Corporation	100	200/230	HC-PQ13	MR-C10A	86.5	
Yasukawa Electric	100	100/115	SGME-01BF12	SGME-01BF12 SGDE-01BP	94.5	
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

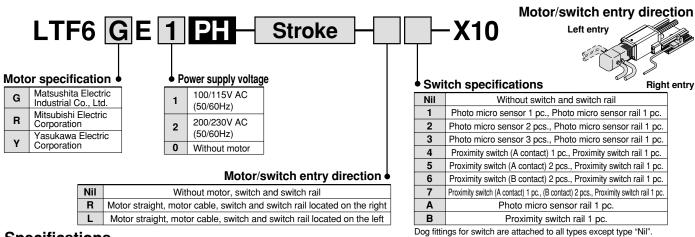
Non-standard Motor

Horizontal Mount

Series LTF6



How to Order

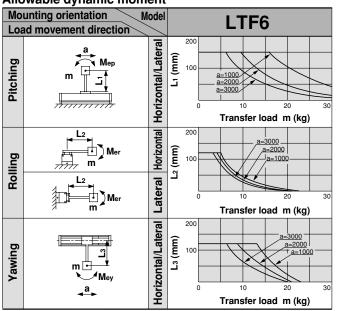


Specifications

	Standard stroke	mm	100	200	300	400	500	600
Performance	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)		
	Work load	kg	15					
	Rated thrust	N	180					
	Maximum speed	mm/s	500 3					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	Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)						
			Proximity switch GXL-N12FTB (B contact) (Refer to page 92 for details.)					

Allowable Moment (N·m)

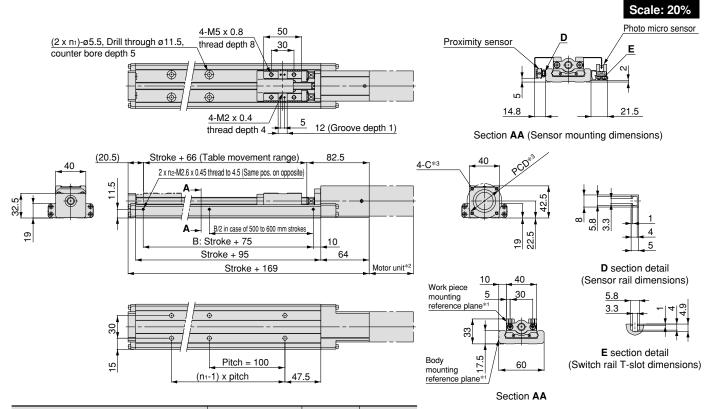
Allowable dynamic moment



- : 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 LTF6

Dimensions/LTF6□E□PH(X10)



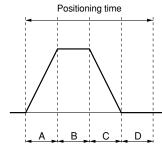
Model	Stroke	n ₁	n ₂
LTF6□E□PH- 100-□□-X10	100	2	1
LTF6□E□PH- 200-□□-X10	200	3	1
LTF6□E□PH- 300-□□-X10	300	4	1
LTF6□E□PH- 400-□□-X10	400	5	1
LTF6□E□PH- 500-□□-X10	500	6	2
LTF6□E□PH- 600-□□-X10	600	7	2

- *1. The body and work piece mounting reference planes are to be used as guidelines for equipment mounting. Refer to page 68 for the mounting procedure.
- *2. For the motor dimensions, refer to "Non-standard Motor."
- *3. For the dimensions of the motor mounting position, refer to the dimensions on page 69 for the guidelines for assembly and designing.

Positioning Time Guide

		Positioning time (sec.)							
Positioning of	listance (mm)	1 10 100 300 600							
4.0	10	0.5	1.5	10.5	30.5	60.5			
	100	0.5	0.6	1.5	3.5	6.5			
Speed (mm/s)	250	0.5	0.6	0.9	1.7	2.9			
	500	0.5	0.6	0.8	1.2	1.8			

 $[\]ast$ 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

	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	103	
Mitsubishi Electric	100	100/115	UO DO40	MR-C10A1	00 F	
Corporation		200/230	HC-PQ13	MR-C10A	86.5	
Yasukawa Electric Corporation		100/115	SGME-01BF12	SGDE-01BP	94.5	
	100	200/230	SGME-01AF12	SGDE-01AP		

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

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

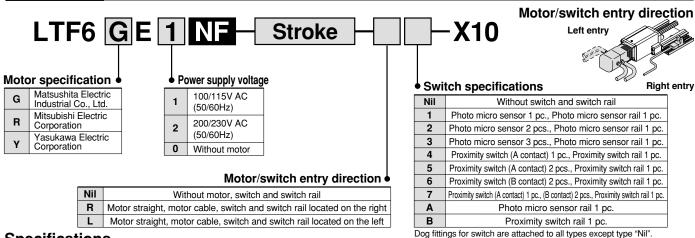
Horizontal Mount

Series LTF6





How to Order

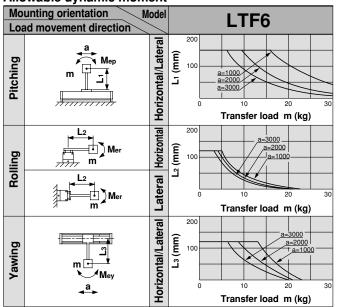


Specifications

	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)		
Performance	Work load	kg			3	0		
Periormance	Rated thrust N 300							
	Maximum speed	mm/s	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					
			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.)					

Allowable Moment (N·m)

Allowable dynamic moment



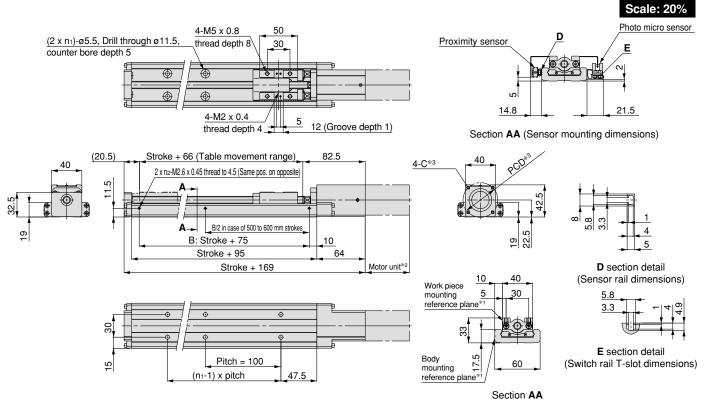
- : Transfer load (kg)
- a : Work piece acceleration (mm/s2)
- Me: Allowable dynamic moment
- L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

38

Non-standard Motor/Horizontal Mount Specification Series LTF6

Dimensions/LTF6□E□NF(X10)



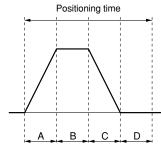
Model	Stroke	n ₁	n ₂
LTF6□E□NF- 100-□□-X10	100	2	1
LTF6□E□NF- 200-□□-X10	200	3	1
LTF6□E□NF- 300-□□-X10	300	4	1
LTF6□E□NF- 400-□□-X10	400	5	1
LTF6□E□NF- 500-□□-X10	500	6	2
LTF6□E□NF- 600-□□-X10	600	7	2

- *1. The body and work piece mounting reference planes are to be used as guidelines for equipment mounting. Refer to page 68 for the mounting procedure.
- *2. For the motor dimensions, refer to "Non-standard Motor."
- *3. For the dimensions of the motor mounting position, refer to the dimensions on page 69 for the guidelines for assembly and designing.

Positioning Time Guide

		Positioning time (sec.)							
Positioning d	listance (mm)	1 10 100 300 6							
10 Speed 100	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

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric	400	100/115 MSM011P1A		MSD011P1E	103	
Industrial Co., Ltd.	100	200/230	MSM012P1A MSD013P1E		103	
Mitsubishi Electric	100	100/115	LIO DO40	MR-C10A1	86.5	
Corporation	100	200/230	HC-PQ13	MR-C10A	00.5	
Yasukawa Electric	100	100/115	SGME-01BF12	SGDE-01BP	94.5	
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

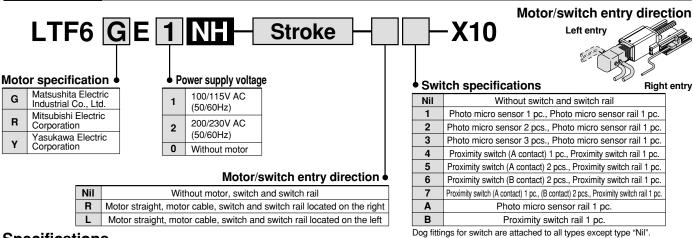
Horizontal Mount

Series LTF6

Motor Output 100_w

Rolled Ball Screw Ø10mm/10mm lead

How to Order

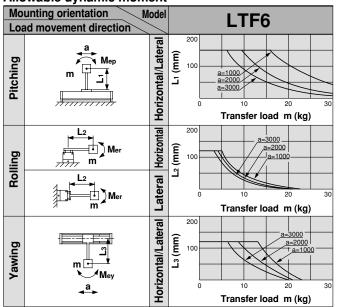


Specifications

	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		5 to 4	10 (with no	condens	ation)				
Performance Work load kg 15						5				
Periormance	Rated thrust	N	180 m/s 500							
	Maximum speed	mm/s						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							
			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	I12FTB (B co	ontact) (Refe	r to page 92	for details.)		

Allowable Moment (N·m)

Allowable dynamic moment

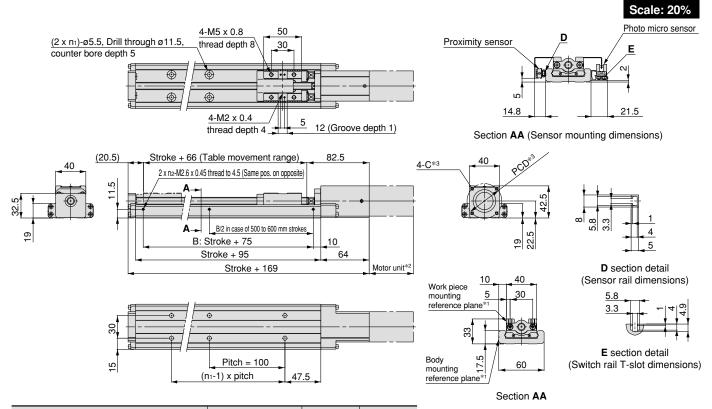


- : Transfer load (kg)
- a : Work piece acceleration (mm/s2)
- Me: Allowable dynamic moment
- L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

Non-standard Motor/Horizontal Mount Specification Series LTF6

Dimensions/LTF6□E□NH(X10)



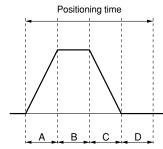
Model	Stroke	n ₁	n ₂
LTF6□E□NH- 100-□□-X10	100	2	1
LTF6□E□NH- 200-□□-X10	200	3	1
LTF6□E□NH- 300-□□-X10	300	4	1
LTF6□E□NH- 400-□□-X10	400	5	1
LTF6□E□NH- 500-□□-X10	500	6	2
LTF6□E□NH- 600-□□-X10	600	7	2

- *1. The body and work piece mounting reference planes are to be used as guidelines for equipment mounting. Refer to page 68 for the mounting procedure.
- *2. For the motor dimensions, refer to "Non-standard Motor."
- *3. For the dimensions of the motor mounting position, refer to the dimensions on page 69 for the guidelines for assembly and designing.

Positioning Time Guide

		Positioning time (sec.)							
Positioning d	listance (mm)	1	10	100	300	600			
10 Speed 100	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.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric			MSM011P1A	MSD011P1E	103	
Industrial Co., Ltd.	100	200/230	MSM012P1A	MSD013P1E	103	
Mitsubishi Electric	400	100/115	110 0010	MR-C10A1	00 F	
Corporation	100	200/230	HC-PQ13	MR-C10A	86.5	
Yasukawa Electric	400	100/115	SGME-01BF12	SGDE-01BP	94.5	
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.

Horizontal Mount

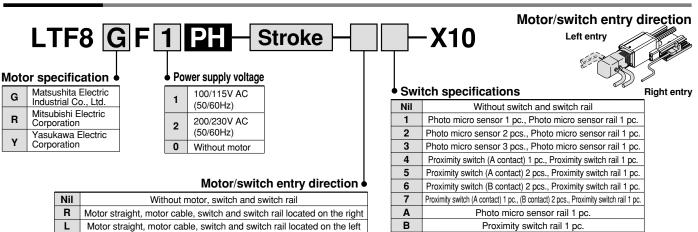
Series LTF8



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



How to Order

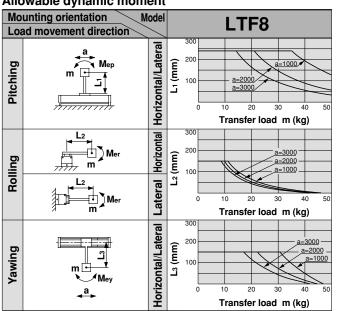


Specifications

	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	condens	sation)			
Doufoumonos	Work load	kg	50									
Performance	Rated thrust	N					36	60				
	Maximum speed	mm/s			50	00			440	350	290	240
	Positioning repeatability	mm	m ±0.02									
	Motor	AC servomotor (200W)										
	Encoder		Incremental system									
Main parts	Lead screw				G	around ba	all screw	ø15mm,	10mm lea	ad		
	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.)									

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg)

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

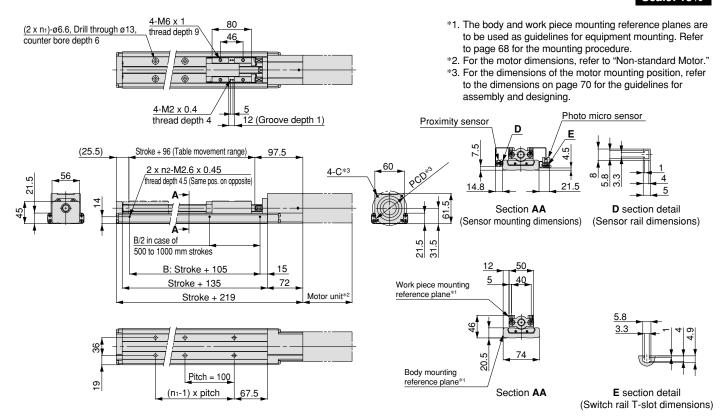
L : Overhang to work piece center of gravity (mm)

Refer to page 71 for deflection data.

42

Dimensions/LTF8 FPH(X10)

Scale: 13%

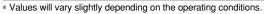


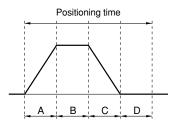
Model	Stroke	n ₁	n ₂
LTF8□F□PH- 100-□□-X10	100	2	1
LTF8□F□PH- 200-□□-X10	200	3	1
LTF8□F□PH- 300-□□-X10	300	4	1
LTF8□F□PH- 400-□□-X10	400	5	1
LTF8□F□PH- 500-□□-X10	500	6	2

Model	Stroke	n ₁	n ₂
LTF8□F□PH- 600-□□-X10	600	7	2
LTF8□F□PH- 700-□□-X10	700	8	2
LTF8□F□PH- 800-□□-X10	800	9	2
LTF8□F□PH- 900-□□-X10	900	10	2
LTF8□F□PH-1000-□□-X10	1000	11	2

Positioning Time Guide

		Positioning time (sec.)					
Positioning of	listance (mm)	pe (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	





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

Maximum acceleration: 3000mm/s²

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1A	MSD021P1E	95
Industrial Co., Ltd.	200	200/230	MSM022P1A	MSD023P1E	95
Mitsubishi Electric	000	100/115	LIO DOOO	MR-C20A1	90
Corporation	200/230		HC-PQ23	MR-C20A	89
Yasukawa Electric	000	100/115	SGME-02BF12	SGDE-02BP	96.5
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

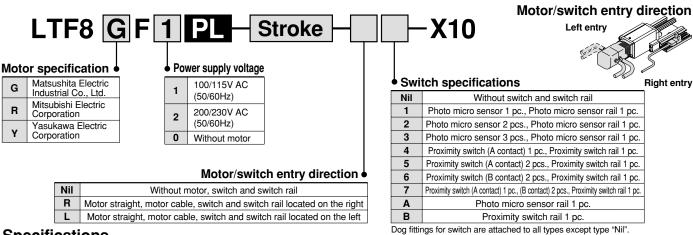
Non-standard Motor **Horizontal Mount**

Series LTF8





How to Order

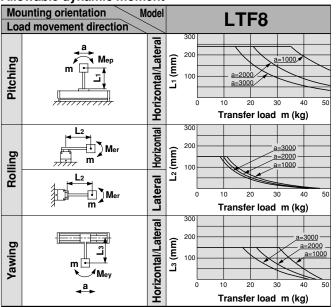


Specifications

	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						11.1			
	Operating temperature range	°C				5 to 40) (with no	condens	sation)			
Doufoumonos	Work load	kg					2	5				
Performance	Rated thrust	N					18	30				
	Maximum speed	mm/s			10	00			890	710	580	480
	Positioning repeatability	mm	±0.02									
	Motor					AC	servom	otor (200	W)			
	Encoder					I	ncremen	tal systen	n			
Main parts	Lead screw				G	iround 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.)									
Switch	Model		Proximity switch GXL-N12FT (A contact) (Refer to page 92 for details.)									
				Proximity	switch C	XL-N12F	FTB (B co	ntact) (R	efer to pa	age 92 fo	r details.)	

Allowable Moment (N·m)

Allowable dynamic moment

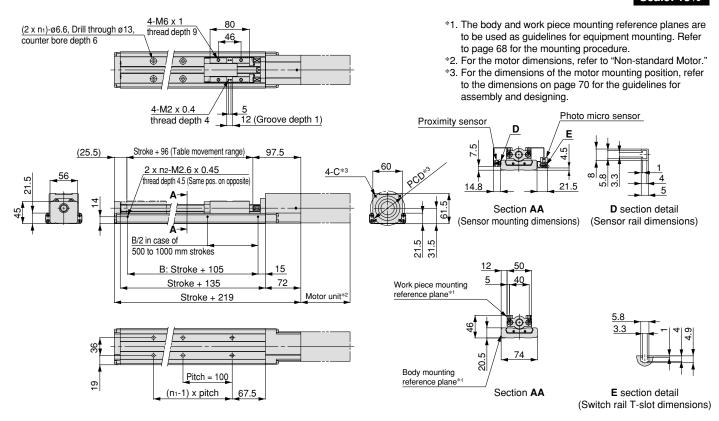


Refer to page 71 for deflection data.

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

Dimensions/LTF8 FPL(X10)

Scale: 13%

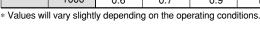


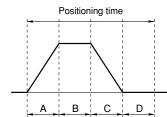
Model	Stroke	n ₁	n ₂
LTF8□F□PL- 100-□□-X10	100	2	1
LTF8□F□PL- 200-□□-X10	200	3	1
LTF8□F□PL- 300-□□-X10	300	4	1
LTF8□F□PL- 400-□□-X10	400	5	1
LTF8□F□PL- 500-□□-X10	500	6	2

Model	Stroke	n ₁	n ₂
LTF8□F□PL- 600-□□-X10	600	7	2
LTF8□F□PL- 700-□□-X10	700	8	2
LTF8□F□PL- 800-□□-X10	800	9	2
LTF8□F□PL- 900-□□-X10	900	10	2
LTF8□F□PL-1000-□□-X10	1000	11	2

Positioning Time Guide

			Positi	oning time	(sec.)	
Positioning distance (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
(mm/s)	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

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1A	MSD021P1E	95
Industrial Co., Ltd.	200	200/230	MSM022P1A	MSD023P1E	95
Mitsubishi Electric	000	100/115	LIO DOOS	MR-C20A1	89
Corporation	200	200/230	HC-PQ23	MR-C20A	69
Yasukawa Electric	000	100/115	SGME-02BF12	SGDE-02BP	96.5
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

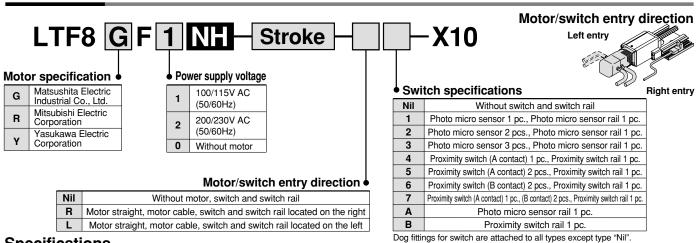
Horizontal Mount

Series LTF8





How to Order

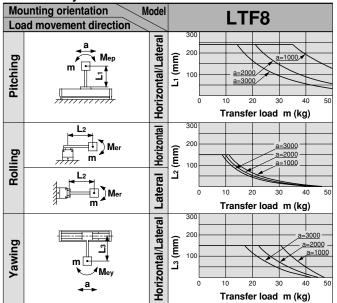


Specifications

	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						11.1			
	Operating temperature range	°C				5 to 40) (with no	condens	sation)			
Doufoumonos	Work load	kg					5	0				
Performance	Rated thrust	N					36	60				
	Maximum speed	mm/s			50	00			440	350	290	240
	Positioning repeatability	mm	±0.05									
	Motor					AC	servom	otor (200	W)			
	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 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.)								
				Proximit	switch C	SXL-N12F	FTB (B co	ontact) (R	efer to pa	age 92 fo	r details.)	

Allowable Moment (N·m)

Allowable dynamic moment

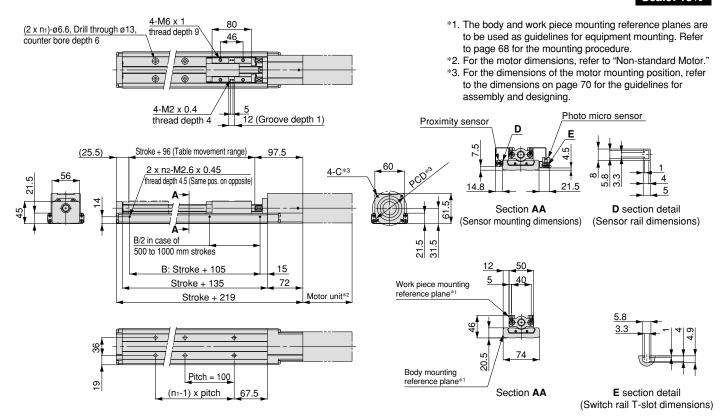


Refer to page 71 for deflection data.

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

Dimensions/LTF8□F□NH(X10)

Scale: 13%



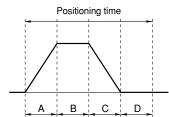
Model	Stroke	n ₁	n ₂
LTF8□F□NH- 100-□□-X10	100	2	1
LTF8□F□NH- 200-□□-X10	200	3	1
LTF8□F□NH- 300-□□-X10	300	4	1
LTF8□F□NH- 400-□□-X10	400	5	1
LTF8□F□NH- 500-□□-X10	500	6	2

Model	Stroke	n ₁	n ₂
LTF8□F□NH- 600-□□-X10	600	7	2
LTF8□F□NH- 700-□□-X10	700	8	2
LTF8□F□NH- 800-□□-X10	800	9	2
LTF8□F□NH- 900-□□-X10	900	10	2
LTF8□F□NH-1000-□□-X10	1000	11	2

Positioning Time Guide

			Positi	oning time	(sec.)					
Positioning distance (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				
(mm/s)	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

	Motor output (W)	(W) Voltage Motor model (V AC)		Compatible driver model	Motor dimension (mm)	
Matsushita Electric	000	100/115	MSM021P1A	MSD021P1E	95	
Industrial Co., Ltd.	200	200/230	200/230 MSM022P1A		95	
Mitsubishi Electric	000	100/115	LIO DOGO	MR-C20A1	00	
Corporation	200	200/230	HC-PQ23	MR-C20A	89	
Yasukawa Electric		100/115	SGME-02BF12	SGDE-02BP	96.5	
Corporation	200	200/230	SGME-02AF12	SGDE-02AP	30.3	

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

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



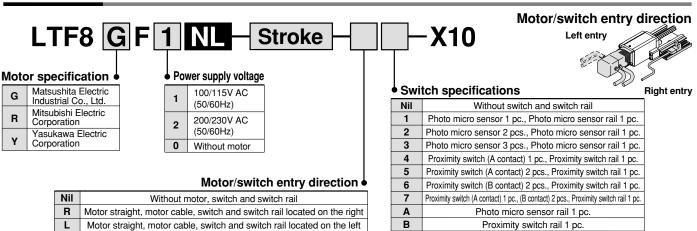
^{*} The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motor Horizontal Mount

Series LTF8

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

How to Order

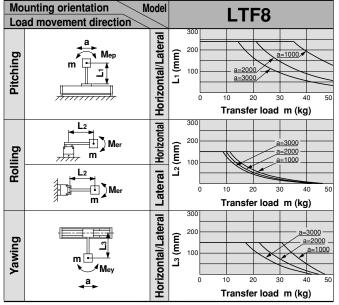


Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000	
	Body weight (without motor)) kg	3.4	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	condens	densation)				
Daviavmanaa	Work load	kg					2	5					
Performance	Rated thrust	N					18	30					
	Maximum speed	mm/s	1000 890 710 580 480						480				
	Positioning repeatability	mm	±0.05										
	Motor					AC	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 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					ge 92 for	details.)							
				Proximity	switch C	GXL-N12F	FTB (B co	ontact) (R	lefer to pa	age 92 fo	r details.)		

Allowable Moment (N·m)

Allowable dynamic moment



m: Transfer load (kg)

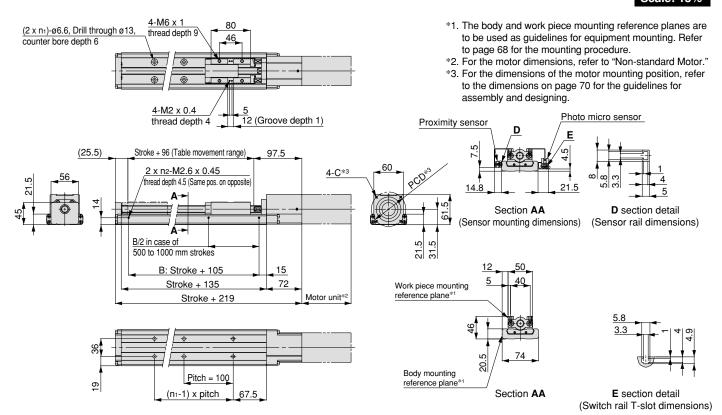
a : Work piece acceleration (mm/s²)
 Me: Allowable dynamic moment
 L : Overhang to work piece

center of gravity (mm)

Refer to page 71 for deflection data.

Dimensions/LTF8 F NL(X10)

Scale: 13%

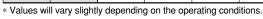


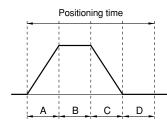
Model	Stroke	n ₁	n ₂
LTF8□F□NL- 100-□□-X10	100	2	1
LTF8□F□NL- 200-□□-X10	200	3	1
LTF8□F□NL- 300-□□-X10	300	4	1
LTF8□F□NL- 400-□□-X10	400	5	1
LTF8□F□NL- 500-□□-X10	500	6	2

Model	Stroke	n ₁	n ₂
LTF8□F□NL- 600-□□-X10	600	7	2
LTF8□F□NL- 700-□□-X10	700	8	2
LTF8□F□NL- 800-□□-X10	800	9	2
LTF8□F□NL- 900-□□-X10	900	10	2
LTF8□F□NL-1000-□□-X10	1000	11	2

Positioning Time Guide

			Positi	oning time	(sec.)	
Positioning distance (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
(mm/s)	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

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric	000	100/115	MSM021P1A	MSD021P1E	95	
Industrial Co., Ltd.	200	200/230	MSM022P1A	MSD023P1E	95	
Mitsubishi Electric	000	100/115	LIO DOOO	MR-C20A1	89	
Corporation	200	200/230	HC-PQ23	MR-C20A	69	
Yasukawa Electric		100/115	SGME-02BF12	SGDE-02BP	96.5	
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



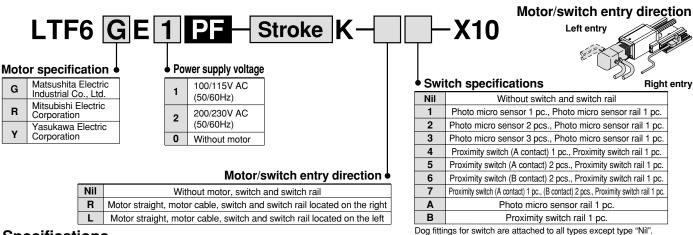
^{*} The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

Series LTF6 **Vertical Mount**

Motor Output 100_w



How to Order

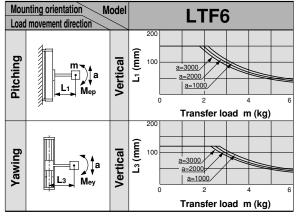


Specifications

	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)		
Performance	Work load	kg			(6			
Periormance	Rated thrust	N			30	00			
	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						
			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.)							
Regenerati	ve absorption unit		Refer to the selection guide below.						

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg)

: Transfer load (kg)

Me : Allowable dynamic moment

: 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

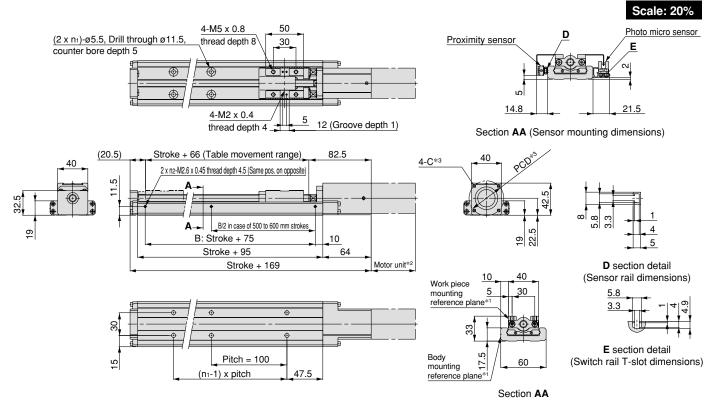
Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

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



Dimensions/LTF6□E□PF(X10)



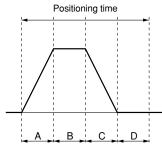
Model	Stroke	n ₁	n ₂
LTF6□E□PF- 100K-□□-X10	100	2	1
LTF6□E□PF- 200K-□□-X10	200	3	1
LTF6□E□PF- 300K-□□-X10	300	4	1
LTF6□E□PF- 400K-□□-X10	400	5	1
LTF6□E□PF- 500K-□□-X10	500	6	2
I TE6□E□PE- 600K-□□-X10	600	7	2

- *1. The body and work piece mounting reference planes are to be used as guidelines for equipment mounting. Refer to page 68 for the mounting procedure.
- *2. For the motor dimensions, refer to "Non-standard Motor."
- *3. For the dimensions of the motor mounting position, refer to the dimensions on page 69 for the guidelines for assembly and designing.

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	
Speed (mm/s)	150	0.5	0.6	1.2	2.5	4.5	
	300	0.5	0.6	0.9	1.6	2.6	

 $[\]ast$ 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

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric	ushita Electric		MSM011P1B	MSD011P1E	135	
Industrial Co., Ltd.	100	200/230	MSM012P1B	MSD013P1E	135	
Mitsubishi Electric	400	100/115	LIO DOLOD	MR-C10A1	114.5	
Corporation	100	200/230	HC-PQ13B	MR-C10A	114.5	
Yasukawa Electric		100/115	SGME-01BF12B	SGDE-01BP	135	
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

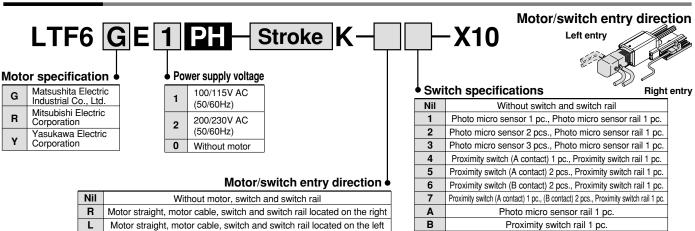
Vertical Mount

Series LTF6



Ground Ball Screw

How to Order

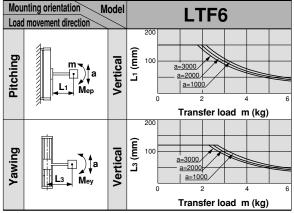


Specifications

	Standard stroke	mm	100	200	300	400	500	600
Performance	Body weight (without motor)	kg	1.7	2.1	2.6	3.1	3.6	4.1
	Operating temperature range	5 to 40 (with no condensation)						
	Work load	kg			3	3		
Periorillance	Rated thrust	N	180					
	Maximum speed	mm/s	500					390
	Positioning repeatability	ing 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					
			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.)						
Regenerati	ve absorption unit		Refer to the selection guide below.					

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg)

: Transfer load (kg)

Me : Allowable dynamic moment
: 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

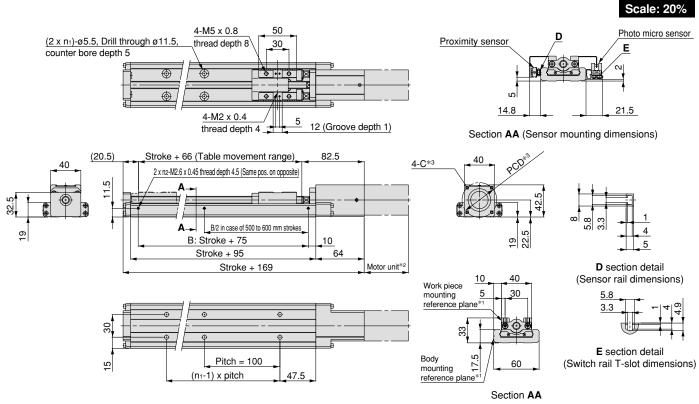
+ Driver capacitor energy consumption (A)

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

+ Regenerative resistor energy consumption (B)



Dimensions/LTF6□E□PH(X10)



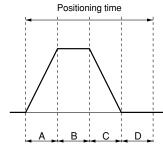
Model	Stroke	n ₁	n ₂
LTF6□E□PH- 100K-□□-X10	100	2	1
LTF6□E□PH- 200K-□□-X10	200	3	1
LTF6□E□PH- 300K-□□-X10	300	4	1
LTF6□E□PH- 400K-□□-X10	400	5	1
LTF6□E□PH- 500K-□□-X10	500	6	2
LTF6□E□PH- 600K-□□-X10	600	7	2

- *1. The body and work piece mounting reference planes are to be used as guidelines for equipment mounting. Refer to page 68 for the mounting procedure.
- *2. For the motor dimensions, refer to "Non-standard Motor."
- *3. For the dimensions of the motor mounting position, refer to the dimensions on page 69 for the guidelines for assembly and designing.

Positioning Time Guide

		Positioning time (sec.)							
Positioning of	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			
Speed (mm/s)	250	0.5	0.6	0.9	1.7	2.9			
	500	0.5	0.6	0.8	1.2	1.8			

 $[\]ast$ 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.

	Motor output (W)	Power supply voltage (V AC)	voltage Motor model C		Motor dimension (mm)	
Matsushita Electric	400	100/115	MSM011P1B	MSD011P1E	135	
Industrial Co., Ltd.	100	200/230	MSM012P1B	MSD013P1E	133	
Mitsubishi Electric	400	100/115	LIO DOLOD	MR-C10A1	114.5	
Corporation	100	200/230	HC-PQ13B	MR-C10A		
Yasukawa Electric	400	100/115	SGME-01BF12B	SGDE-01BP	135	
Corporation	100	200/230	SGME-01AF12B	SGDE-01AP		

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

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



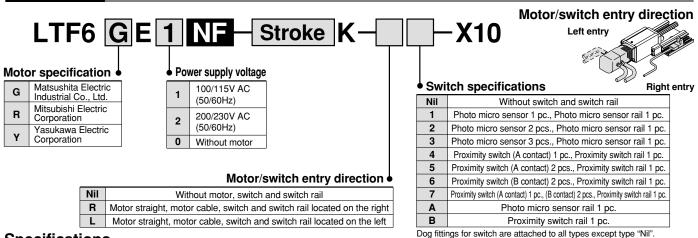
Vertical Mount

Series LTF6





How to Order

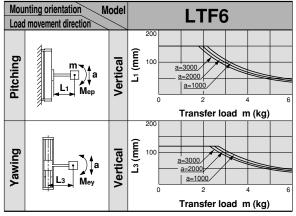


Specifications

	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)	
Dorformonoo	Work load	kg			(3		
Performance	Rated thrust			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					
			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.)						
Regenerati	ve absorption unit			Refer to	the selec	tion guide	below.	•

Allowable Moment (N·m)

Allowable dynamic moment



m : Transfer load (kg)

: Transfer load (kg)

Me : Allowable dynamic moment
: 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

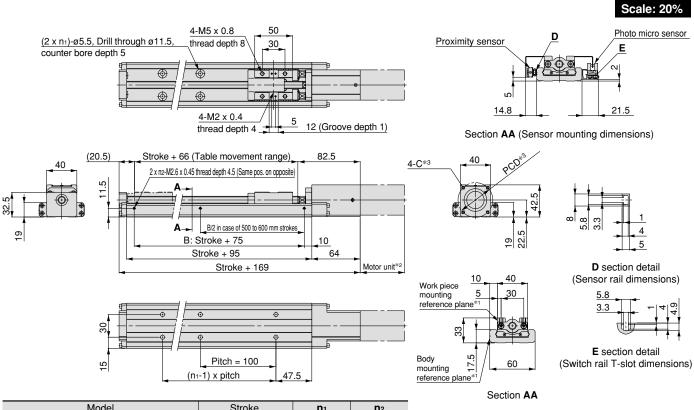
Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

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



Dimensions/LTF6 E NF(X10)



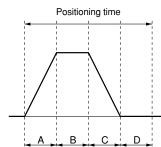
Model	Stroke	n ₁	n ₂
LTF6□E□NF- 100K-□□-X10	100	2	1
LTF6□E□NF- 200K-□□-X10	200	3	1
LTF6□E□NF- 300K-□□-X10	300	4	1
LTF6□E□NF- 400K-□□-X10	400	5	1
LTF6□E□NF- 500K-□□-X10	500	6	2
LTF6□E□NF- 600K-□□-X10	600	7	2

- *1. The body and work piece mounting reference planes are to be used as guidelines for equipment mounting. Refer to page 68 for the mounting procedure.
- *2. For the motor dimensions, refer to "Non-standard Motor."
- *3. For the dimensions of the motor mounting position, refer to the dimensions on page 69 for the guidelines for assembly and designing.

Positioning Time Guide

		Positioning time (sec.)							
Positioning of	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			
Speed (mm/s)	150	0.5	0.6	1.2	2.5	4.5			
	300	0.5	0.6	0.9	1.6	2.6			

 $[\]ast$ 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.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric	400	100/115	MSM011P1B	MSD011P1E	135	
Industrial Co., Ltd.	100	200/230	MSM012P1B	MSD013P1E	135	
Mitsubishi Electric	100	100/115	LIC DO10D	MR-C10A1	114.5	
Corporation	100	200/230	HC-PQ13B	MR-C10A	114.5	
Yasukawa Electric	400	100/115	SGME-01BF12B	SGDE-01BP	135	
Corporation	100	200/230	SGME-01AF12B	SGDE-01AP		

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

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



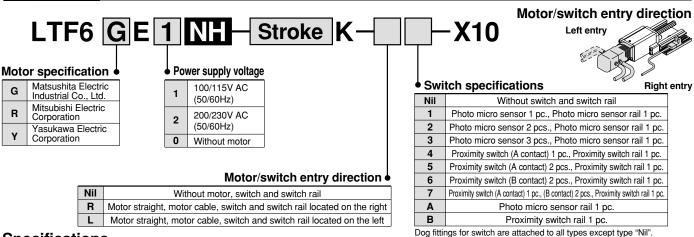
Vertical Mount

Series LTF6



Rolled Ball Screw Ø10_{mm}/10_{mm lead}

How to Order

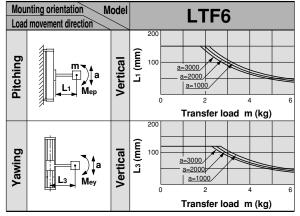


Specifications

	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 no	condens	ation)	
Dorformonoo	Work load	kg			3	3		
Performance	Rated thrust	N			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					
			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.)						
Regenerati	ve absorption unit		Refer to the selection guide below.					

Allowable Moment (N·m)

Allowable dynamic moment



: Transfer load (kg)

: 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.

Regenerative Absorption Unit Selection Guide

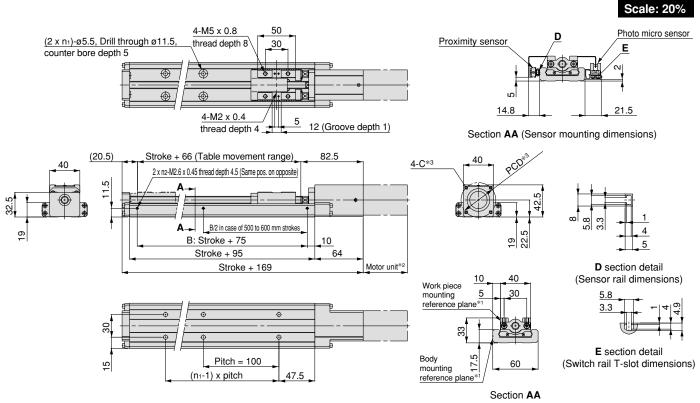
Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

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



Dimensions/LTF6□E□NH(X10)



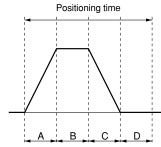
Model	Stroke	n ₁	n ₂
LTF6□E□NH- 100K-□□-X10	100	2	1
LTF6□E□NH- 200K-□□-X10	200	3	1
LTF6□E□NH- 300K-□□-X10	300	4	1
LTF6□E□NH- 400K-□□-X10	400	5	1
LTF6□E□NH- 500K-□□-X10	500	6	2
LTF6□E□NH- 600K-□□-X10	600	7	2

- *1. The body and work piece mounting reference planes are to be used as guidelines for equipment mounting. Refer to page 68 for the mounting procedure.
- *2. For the motor dimensions, refer to "Non-standard Motor."
- *3. For the dimensions of the motor mounting position, refer to the dimensions on page 69 for the guidelines for assembly and designing.

Positioning Time Guide

		Positioning time (sec.)							
Positioning of	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			
Speed (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

	Motor output (W)	Power supply voltage (V AC)	voltage Motor model C		Motor dimension (mm)	
Matsushita Electric	400	100/115	MSM011P1B	MSD011P1E	135	
Industrial Co., Ltd.	100	200/230	MSM012P1B	MSD013P1E	135	
Mitsubishi Electric	100	100/115	LIC DO10D	MR-C10A1	114.5	
Corporation	100	200/230	HC-PQ13B	MR-C10A		
Yasukawa Electric	400	100/115	SGME-01BF12B	SGDE-01BP	135	
Corporation	100	200/230	SGME-01AF12B	SGDE-01AP		

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

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

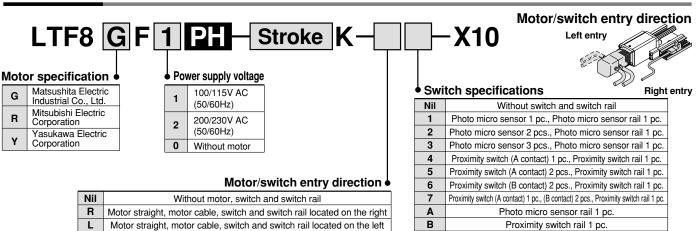
Non-standard Motor Vertical Mount

Series LTF8





How to Order

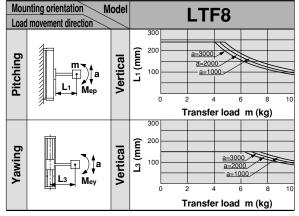


Specifications

	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							10.2	11.1	
	Operating temperature range	°C				5 to 4	0 (with no	condens	sation)			
Performance	Work load	kg	10									
Periormance	Rated thrust	N					36	30				
	Maximum speed	mm/s			50	00			440	350	290	240
	Positioning repeatability	mm					±0	.02				
	Motor		AC servomotor (200W) with brake									
	Encoder		Incremental system									
Main parts	Lead screw				G	around ba	all screw	ø15mm,	10mm 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.)									
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.)							
Regenerati	ve absorption unit					Refer to	the selec	ction guid	e 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)

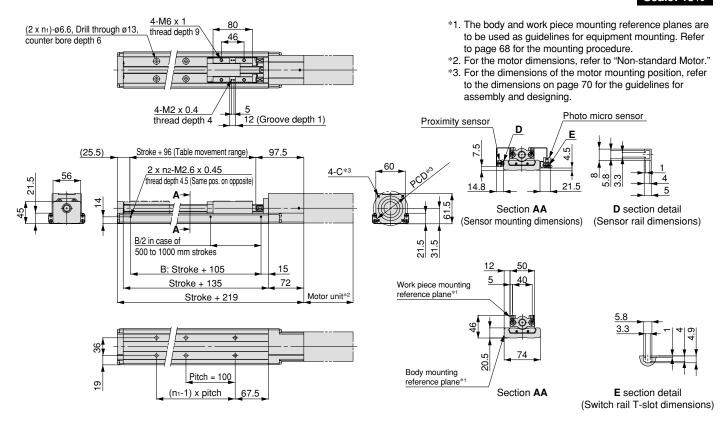
Dog fittings for switch are attached to all types except type "Nil".

+ Regenerative resistor energy consumption (B)



Dimensions/LTF8 FPH(X10)

Scale: 13%



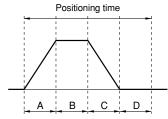
Model	Stroke	n ₁	n ₂
LTF8□F□PH- 100K-□□-X10	100	2	1
LTF8□F□PH- 200K-□□-X10	200	3	1
LTF8□F□PH- 300K-□□-X10	300	4	1
LTF8□F□PH- 400K-□□-X10	400	5	1
LTF8□F□PH- 500K-□□-X10	500	6	2

Model	Stroke	n ₁	n ₂
LTF8□F□PH- 600K-□□-X10	600	7	2
LTF8□F□PH- 700K-□□-X10	700	8	2
LTF8□F□PH- 800K-□□-X10	800	9	2
LTF8□F□PH- 900K-□□-X10	900	10	2
LTF8□F□PH-1000K-□□-X10	1000	11	2

Positioning Time Guide

			Positi	oning time	(sec.)	
Positioning distance (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
(mm/s)	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

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1B	MSD021P1E	128
Industrial Co., Ltd.	200	200/230	MSM022P1B	MSD023P1E	120
Mitsubishi Electric	000	100/115	LIO DOOOD	MR-C20A1	121
Corporation	200	200/230	HC-PQ23B	MR-C20A	121
Yasukawa Electric	000	100/115	SGME-02BF12B	SGDE-02BP	136
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

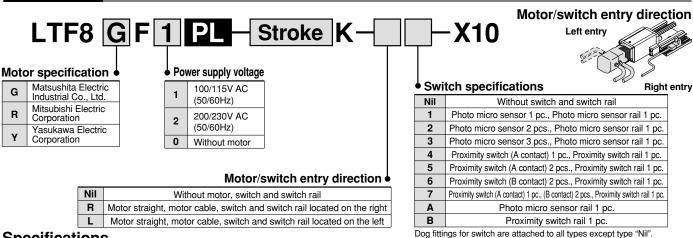
Non-standard Motor Vertical Mount

Series LTF8

Motor Output 200_w

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

How to Order

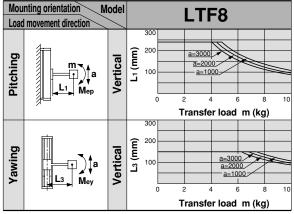


Specifications

	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)								
Doufoussanas	Work load	kg					ļ	5				
Performance	Rated thrust	N					18	80				
	Maximum speed	mm/s			10	00			890	710	580	480
	Positioning repeatability	mm	±0.02							•		
	Motor					AC serv	omotor (200W) w	ith brake			
	Encoder					I	ncremen	tal syster	n			
Main parts	Lead screw				G	around ba	all screw	ø15mm, :	20mm lea	ad		
	Guide					Fra	ame-type	linear gu	iide			
	Motor/Screw connection						With c	oupling				
				Ph	oto micro	sensor E	E-SX674	4 (Refer t	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.)									
Regenerative 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.

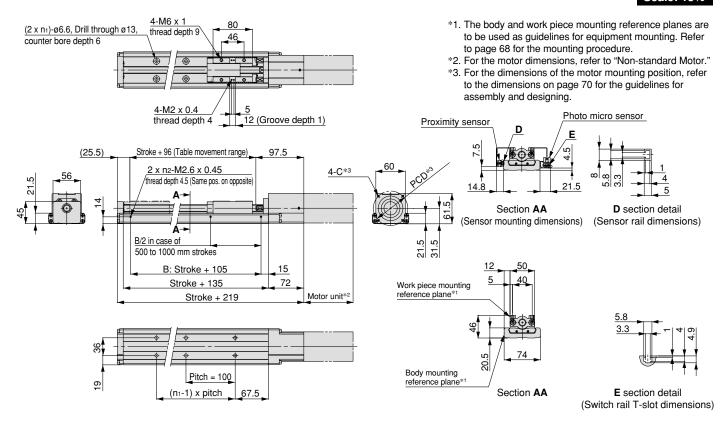
Regenerative energy = Motor coil energy consumption

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



Dimensions/LTF8 F PL(X10)

Scale: 13%

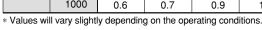


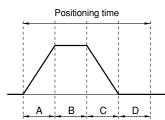
Model	Stroke	n ₁	n ₂
LTF8□F□PL- 100K-□□-X10	100	2	1
LTF8□F□PL- 200K-□□-X10	200	3	1
LTF8□F□PL- 300K-□□-X10	300	4	1
LTF8□F□PL- 400K-□□-X10	400	5	1
LTF8□F□PL- 500K-□□-X10	500	6	2

Model	Stroke	n ₁	n ₂
LTF8□F□PL- 600K-□□-X10	600	7	2
LTF8□F□PL- 700K-□□-X10	700	8	2
LTF8□F□PL- 800K-□□-X10	800	9	2
LTF8□F□PL- 900K-□□-X10	900	10	2
LTF8□F□PL-1000K-□□-X10	1000	11	2

Positioning Time Guide

			Positi	oning 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
(mm/s)	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

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1B	MSD021P1E	128
Industrial Co., Ltd.	200	200/230	MSM022P1B	MSD023P1E	120
Mitsubishi Electric	000	100/115	LIO DOOOD	MR-C20A1	121
Corporation	200	200/230	HC-PQ23B	MR-C20A	121
Yasukawa Electric	000	100/115	SGME-02BF12B	SGDE-02BP	136
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



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

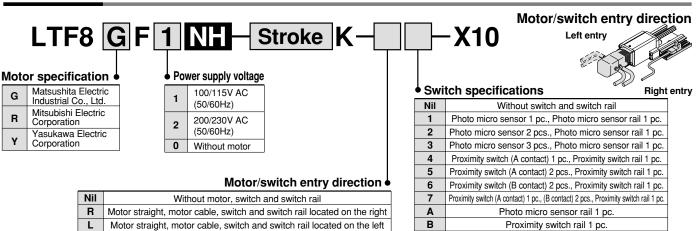
Non-standard Motor Vertical Mount

Series LTF8

Motor Output 200_w

Rolled Ball Screw Ø15mm/10mm lead

How to Order

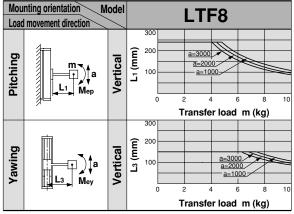


Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
	Body weight (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)								
Dawfarmanaa	Work load	kg					1	0				
Performance	Rated thrust	N					36	30				
	Maximum speed	mm/s			50	00			440	350	290	240
	Positioning repeatability	mm	±0.05							•		
	Motor					AC serv	omotor (200W) wi	ith brake			
	Encoder					I	ncremen	tal syster	n			
Main parts	Lead screw				I	Rolled ba	ll screw ø	15mm, 1	0mm lea	d		
	Guide					Fra	ame-type	linear gu	iide			
	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.)									
Regenerative 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)

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)

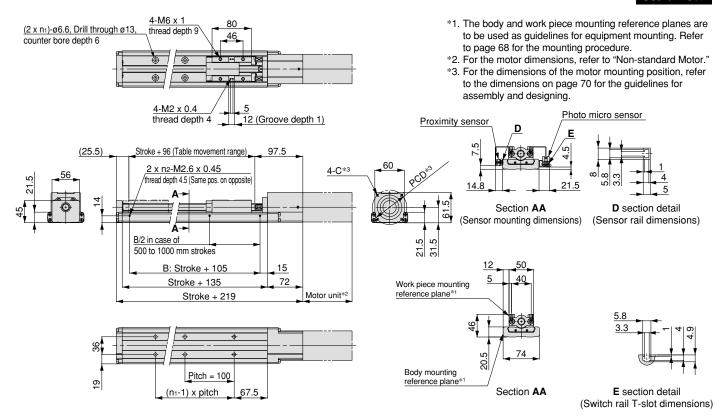
Dog fittings for switch are attached to all types except type "Nil".

+ Regenerative resistor energy consumption (B)



Dimensions/LTF8□F□NH(X10)

Scale: 13%

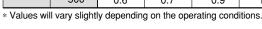


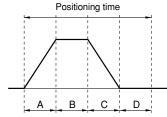
Model	Stroke	n ₁	n ₂
LTF8□F□NH- 100K-□□-X10	100	2	1
LTF8□F□NH- 200K-□□-X10	200	3	1
LTF8□F□NH- 300K-□□-X10	300	4	1
LTF8□F□NH- 400K-□□-X10	400	5	1
LTF8□F□NH- 500K-□□-X10	500	6	2

Model	Stroke	n ₁	n ₂
LTF8□F□NH- 600K-□□-X10	600	7	2
LTF8□F□NH- 700K-□□-X10	700	8	2
LTF8□F□NH- 800K-□□-X10	800	9	2
LTF8□F□NH- 900K-□□-X10	900	10	2
LTF8□F□NH-1000K-□□-X10	1000	11	2

Positioning Time Guide

			Positi	oning 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
Speed (mm/s)	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.

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)
Matsushita Electric	000	100/115	MSM021P1B	MSD021P1E	128
Industrial Co., Ltd.	200	200/230	MSM022P1B	MSD023P1E	120
Mitsubishi Electric	200	100/115	LIO DOOOD	MR-C20A1	121
Corporation		200/230	HC-PQ23B	MR-C20A	121
Yasukawa Electric	000	100/115	SGME-02BF12B SGDE-02BP		136
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.



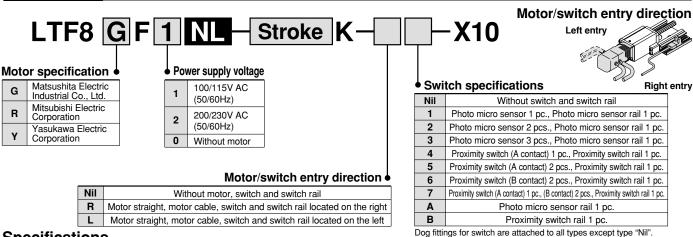
Non-standard Motor Vertical Mount

Series LTF8





How to Order

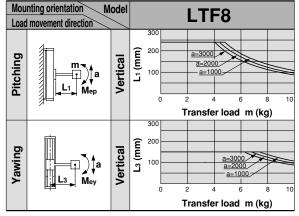


Specifications

	Standard stroke	mm	100	200	300	400	500	600	700	800	900	1000
Performance	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)			
	Work load	kg		5								
	Rated thrust	N		180								
	Maximum speed	mm/s		1000 890 710 580 480						480		
	Positioning repeatability	mm	±0.05									
	Motor		AC servomotor (200W) with brake									
	Encoder		Incremental system									
Main parts	Lead screw		Rolled ball screw ø15mm, 20mm 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.)										
Regenerati	ve absorption unit					Refer to	the selec	ction 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)

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.

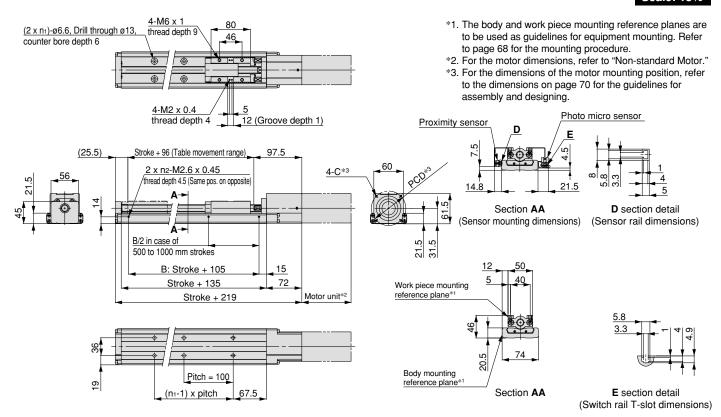
Regenerative energy = Motor coil energy consumption

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



Dimensions/LTF8 F NL(X10)

Scale: 13%

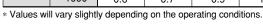


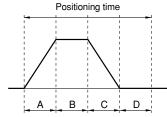
Model	Stroke	n ₁	n ₂
LTF8□F□NL- 100K-□□-X10	100	2	1
LTF8□F□NL- 200K-□□-X10	200	3	1
LTF8□F□NL- 300K-□□-X10	300	4	1
LTF8□F□NL- 400K-□□-X10	400	5	1
LTF8□F□NL- 500K-□□-X10	500	6	2

Model	Stroke	n ₁	n ₂
LTF8□F□NL- 600K-□□-X10	600	7	2
LTF8□F□NL- 700K-□□-X10	700	8	2
LTF8□F□NL- 800K-□□-X10	800	9	2
LTF8□F□NL- 900K-□□-X10	900	10	2
LTF8□F□NL-1000K-□□-X10	1000	11	2

Positioning Time Guide

			Positi	oning time	(sec.)	
Positioning distance (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
(mm/s)	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

	Motor output (W)	Power supply voltage (V AC)	Motor model	Compatible driver model	Motor dimension (mm)	
Matsushita Electric	000	100/115	MSM021P1B	MSD021P1E	128	
Industrial Co., Ltd.	200	200/230	MSM022P1B	MSD023P1E	120	
Mitsubishi Electric	200	100/115	LIO DOOOD	MR-C20A1	121	
Corporation		200/230	HC-PQ23B	MR-C20A	121	
Yasukawa Electric	000	100/115	SGME-02BF12B	SGDE-02BP	136	
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.

^{*} For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 66 for part numbers.

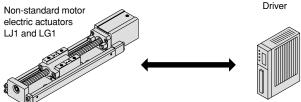


^{*} The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

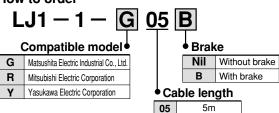
Series LTF Options

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 LTF (non-standard motor)

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.

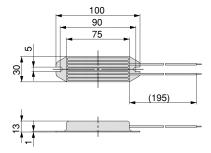
How to order

Applicable types

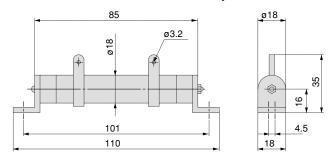
LTF (non-standard motor)

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

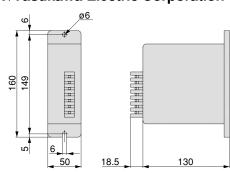
LJ1-7-G/Matsushita Electric Industrial Co., Ltd.



LJ1-7-R/Mitsubishi Electric Corporation



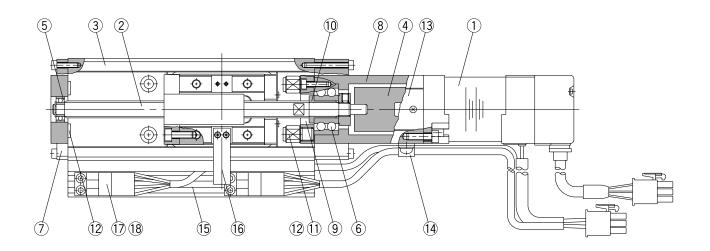
LJ1-7-Y/Yasukawa Electric Corporation



Series LTF Construction

Construction

LTF6/LTF8



Parts list

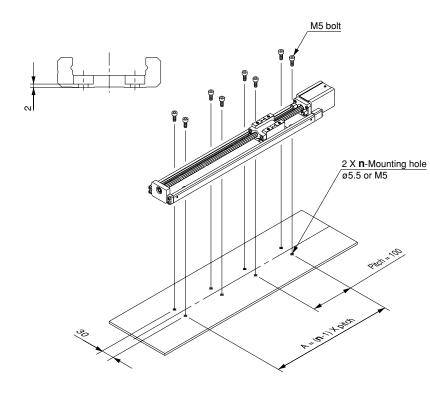
No.	Description	Material	Note
1	AC servomotor	_	100W/200W
2	Lead screw		Ball screw
3	Frame-type linear guide	ı	
4	Coupling		
5	Bearing R	ı	
6	Bearing F		
7	Housing A	Aluminum alloy	
8	Housing B	Aluminum alloy	
9	Bearing retainer	Carbon steel	
	_		

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

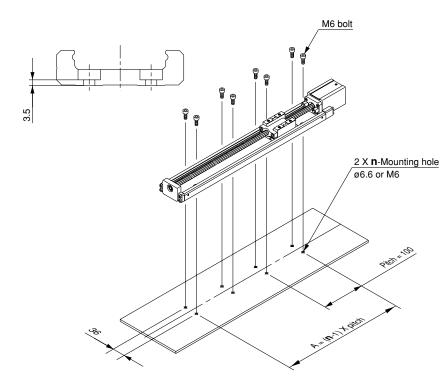
LTF6



Mounting hole quantity

mounting note quartit						
Stroke	n	Quantity				
100	2	4				
200	3	6				
300	4	8				
400	5	10				
500	6	12				
600	7	14				

LTF8



Mounting hole quantity

ĺ	Stroke	n	Quantity	
	100	2	4	
	200	3	6	
	300	4	8	
	400	5	10	
	500	6	12	

Stroke	n	Quantity
600	7	14
700	8	16
800	9	18
900	10	20
1000	11	22

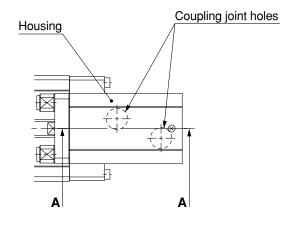


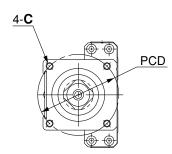


Series LTF Non-standard Motor Mounting Dimensions

Non-standard Motor Mounting Dimensions

LTF6

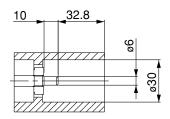




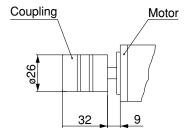
Motor mounting area dimensions

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)



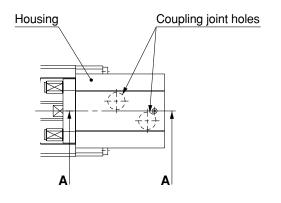
Coupling mounting dimensions*

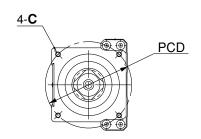


Series LTF Non-standard Motor Mounting Dimensions

Non-standard Motor Mounting Dimensions

LTF8

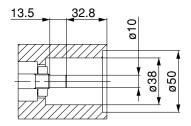




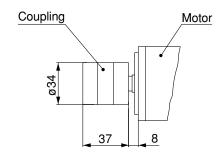
Motor mounting area dimensions

Manufacturer		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)



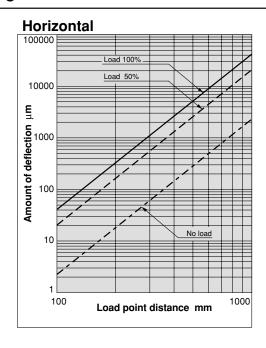
Coupling mounting dimensions*

Series LTF Deflection Data

Deflection Data

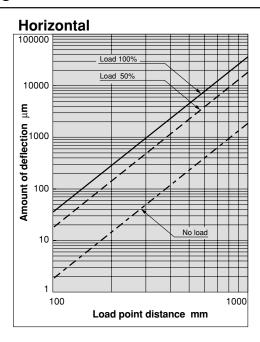
The load and the amount of deflection at load point W are shown in the graphs below for each series.

LTF6



Lateral 10000 Load 100% Load 50% 1000 Load 50% 0.1 0.01 Load point distance mm

LTF8



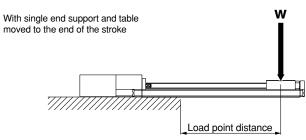
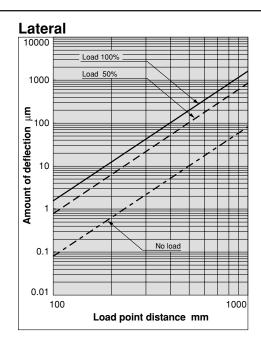


Figure 1. Horizontal



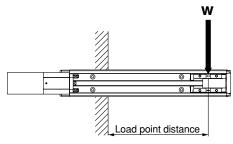


Figure 2. Lateral