

The leader of domestic motion control solution provider



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ADTECH Linear Motor Module Selection



As China's leading motion control solution supplier, ADTECH establishes 2 product systems : motion control system (motion controller, stepper & servo driver, motor and industry application software); Industrial robot, widely used in machines, plastic industry, aerospace, medical instrument, electronic assemble, metal cutting, daily use chemical industry and so on, ADTECH is becoming a typical brand in motion control application area.

ADTECH has set up liaison office in 10 major cities in China, service center in more than 30 cities, building up global sales & service network, ADTECH products have been sold to 103 countries including Europe & America, the middle east, southeast Asia, Hongkong, Taiwan and so on.



ShenZhen Headquarter



Marketing Center



R&D department

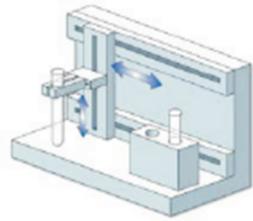


Training centre

Product Content

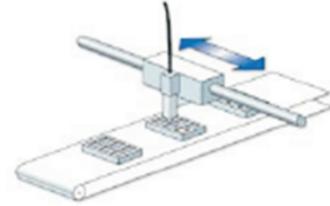
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Linear Motor Specification



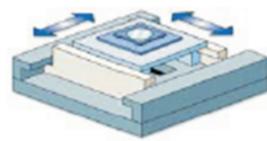
Mute, no friction

Shaft linear motor movement without friction contact, it also completely ruled out the noise and friction factors, especially for dust-free requirements: laboratory transplant, and medical equipment.



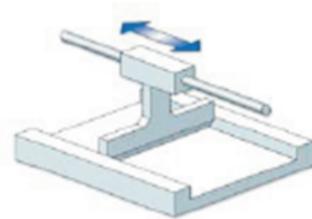
Strong adaptability to the environment

Water resistant, oil resistant, vacuum-resistant features, can adapt to all kinds of harsh environments



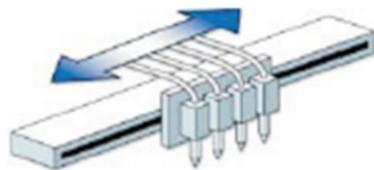
Accurate positioning

The use of grating, magnetic grids and other closed-loop feedback help, you can achieve the minimum 0.1 μ movement step, and reach within 1 μ repeat positioning accuracy.



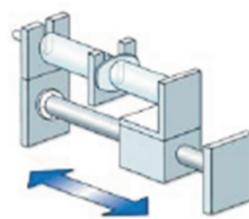
Good performance at low speed

The minimum speed can reach 8 μ / s, far superior to the traditional drive such as the low-speed characteristics



High Speed, High Response

The maximum speed of movement can reach 10m / s, high-speed equipment, the ideal drive choice.



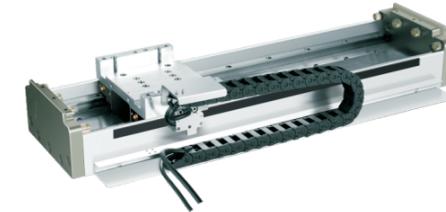
Low fluctuation rate of speed

Stable speed performance, for the dispensing and other industries have excellent performance of the advantages.

LM Series Linear Motor Module Specification

LM-D series of linear motor module features:

1. Suitable for small, medium and low load workplace;
2. Promise requirements, effective travel can be customized;
3. No core design, no tooth groove, suitable for high precision and arc tracking control



LM - F series linear motor module features:

1. Suitable for high load the workplace, the same cross section under the load ability is outstanding;
2. Have polar distance requirements, effective stroke according to the length of the stator stack;
3. The core design, the cogging force, suitable for large load handling class and point to point control.



LM - R series linear motor module features:

1. Wide range of applications;
2. Have polar distance requirements, effective stroke according to the length of the stator stack;
3. No core design, no cogging force, suitable for high precision and circular-arc tracking control.

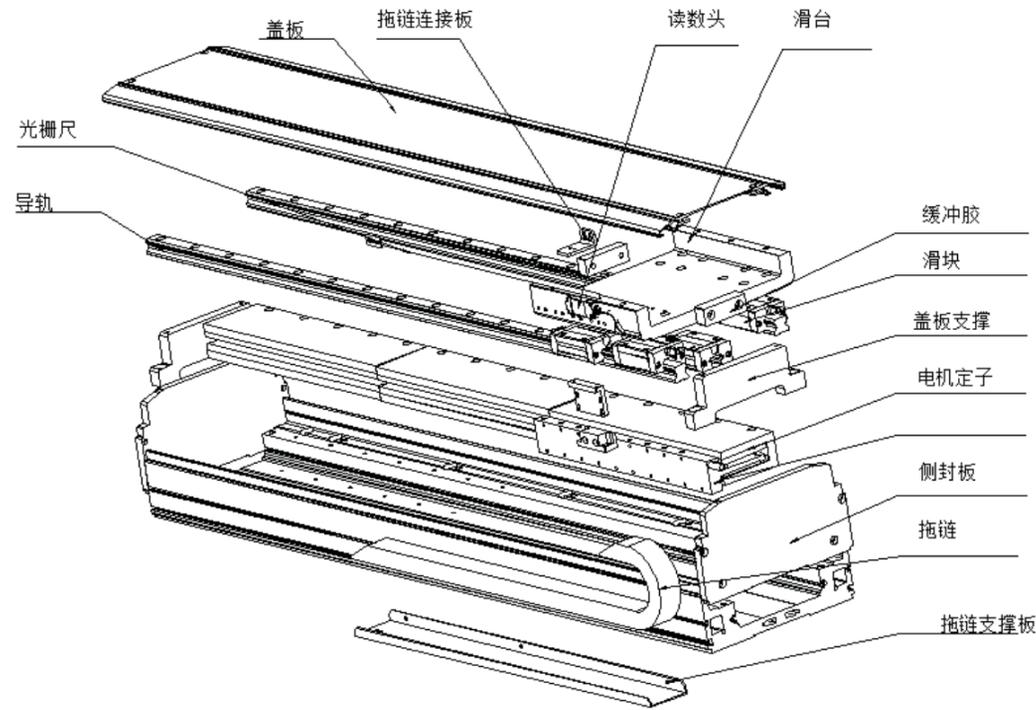


LM series linear module model naming rules (fast selection datasheet)

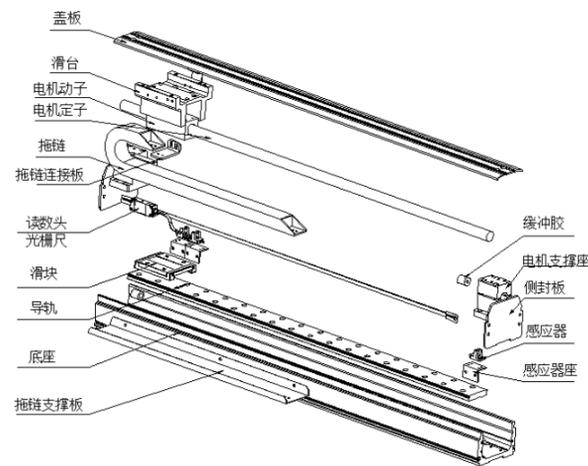
Body naming rules											Accessories naming rules										
LM	85	D	-	16	-	N10	-	500	-	0	-	G	F	D05	-	0	-	S	3	-	L3
Item	Profiles width (mm)	Driver mode		Nominal size (mm)		Rated power (rated thrust)		Effective itinerary (mm)		Load		Gate ruler type	Gate ruler brand	Resolution (μm)		Encoder mode		Wire groove Size	Outlet length (M)		Sensor quantity
Linear motor module	85	D: Shaft-BAR Linear motor		16		N10		Standard itinerary 100-1200 (50mm Distance)		0: Single slider		M: Magnetic Grating	S:SIKO	D05:0.5μm (Standard) D10:1μm		0: Incremental type(standard)		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor
						N15															
						N20															
	130	D: Shaft-BAR Linear motor		20		N18		Standard itinerary 100-1200 (50mm Distance)		0: Single slider		M: Magnetic Grating	S:SIKO	D05:0.5μm (Standard) D10:1μm		0: Incremental type(standard)		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor
						N28															
						N38															
	150	D: Shaft-BAR Linear motor		20		N18		Standard itinerary 100-1200 (50mm Distance)		0: Single slider		M: Magnetic Grating	S:SIKO	D05:0.5μm (Standard) D10:1μm		0: Incremental type(standard)		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor
						N28															
						N38															
		F: Flat Core Linear motor		45		N40		Standard itinerary 120-1200 (120mm Distance)		0: Single slider		G: Grating	F: FAGOR (Standard) R: RENISHAW M: MicroE	D01:0.1μm D05:0.5μm (Standard) D10:1μm		0: Incremental (Standard) A: Absolute type		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor
						N60															
						N75															
	60				N46		Standard itinerary 120-1200 (120mm Distance)		0: Single slider		G: Grating	F: FAGOR (Standard) R: RENISHAW M: MicroE	D01:0.1μm D05:0.5μm (Standard) D10:1μm		0: Incremental (Standard) A: Absolute type		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor	
					N86																
					N129																
	170	D: Shaft-BAR Linear motor		35		N81		Standard itinerary 120-1200 (120mm Distance)		0: Single slider		G: Grating	F: FAGOR (Standard) R: RENISHAW M: MicroE	D01:0.1μm D05:0.5μm (Standard) D10:1μm		0: Incremental (Standard) A: Absolute type		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor
						N152															
						N218															
	F: Flat Core Linear motor		60		N105		Standard itinerary 100-1200 (50mm Distance)		0: Single slider		G: Grating	F: FAGOR (Standard) R: RENISHAW M: MicroE	D01:0.1μm D05:0.5μm (Standard) D10:1μm		0: Incremental (Standard) A: Absolute type		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor	
					N150																
					N190																
	U:U type linear motor		M3		N122		Standard itinerary 120-1200 (120mm Distance)		0: Single slider		G: Grating	F: FAGOR (Standard) R: RENISHAW M: MicroE	D01:0.1μm D05:0.5μm (Standard) D10:1μm		0: Incremental (Standard) A: Absolute type		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor	
					N230																
					N330																
210	F: Flat Core Linear motor		100		N59		Standard itinerary 100-1000 (100mm Distance)		0: Single slider		G: Grating	F: FAGOR (Standard) R: RENISHAW M: MicroE	D01:0.1μm D05:0.5μm (Standard) D10:1μm		0: Incremental (Standard) A: Absolute type		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor	
					N89																
					N118																
	U:U type linear motor		M4		N148		Standard itinerary 120-1200 (120mm Distance)		0: Single slider		G: Grating	F: FAGOR (Standard) R: RENISHAW M: MicroE	D01:0.1μm D05:0.5μm (Standard) D10:1μm		0: Incremental (Standard) A: Absolute type		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor	
					N161																
					N302																
N435				N102		Standard itinerary 120-1200 (120mm Distance)		0: Single slider		G: Grating	F: FAGOR (Standard) R: RENISHAW M: MicroE	D01:0.1μm D05:0.5μm (Standard) D10:1μm		0: Incremental (Standard) A: Absolute type		S: S Type M: M Type L: L Type	3: 3M (Standard) 5: 5M 10: 10M		Null: no sensor L1: 1 sensor L2: 2 sensor L3: 3 sensor L4: 4 sensor L5: 5 sensor		
				N153																	
				N205																	
N256				Standard itinerary 100-1200 (100mm Distance)																	

Note:
1. Different profile widths can be installed in different drive modes
2. The effective stroke is represented by the center distance of the two ends of the sliding table to the limit position of the two ends.

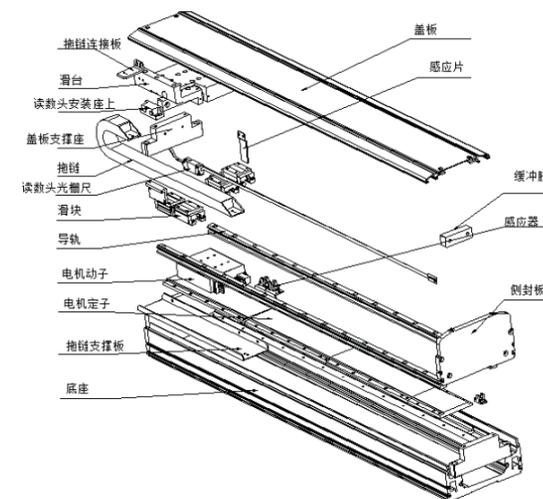
U-shaped linear group decomposition diagram



Shaft-Bar Linear module decomposition diagram

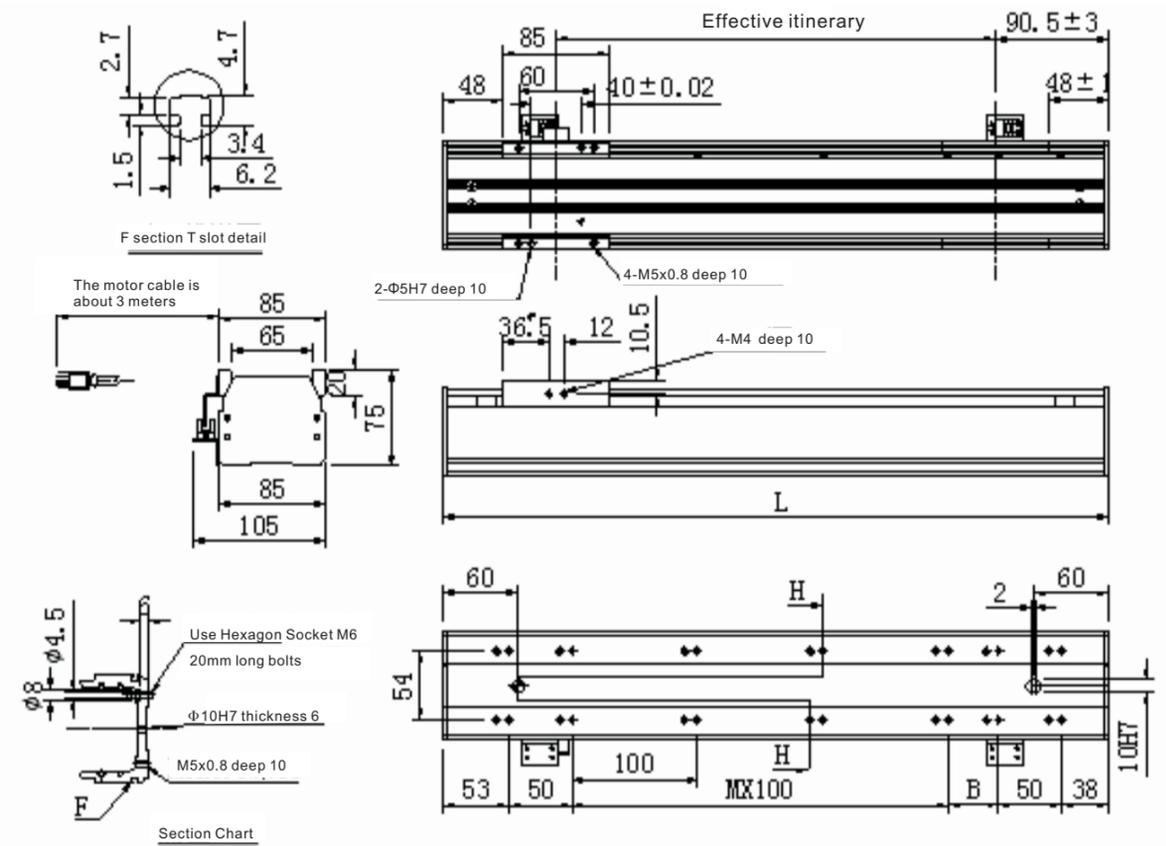


Flat linear module decomposition diagram



LM85D-16-N10-100 Linear module

Effective itinerary (mm)	100	150	200	250	300	350
L (Full length mm)	316	366	416	466	516	566
B (Minimum distance)	30	80	30	80	30	80
M (Hole quantity)	1	1	2	2	3	3
Maximum speed (mm/s)	2000					
	Speed setting					



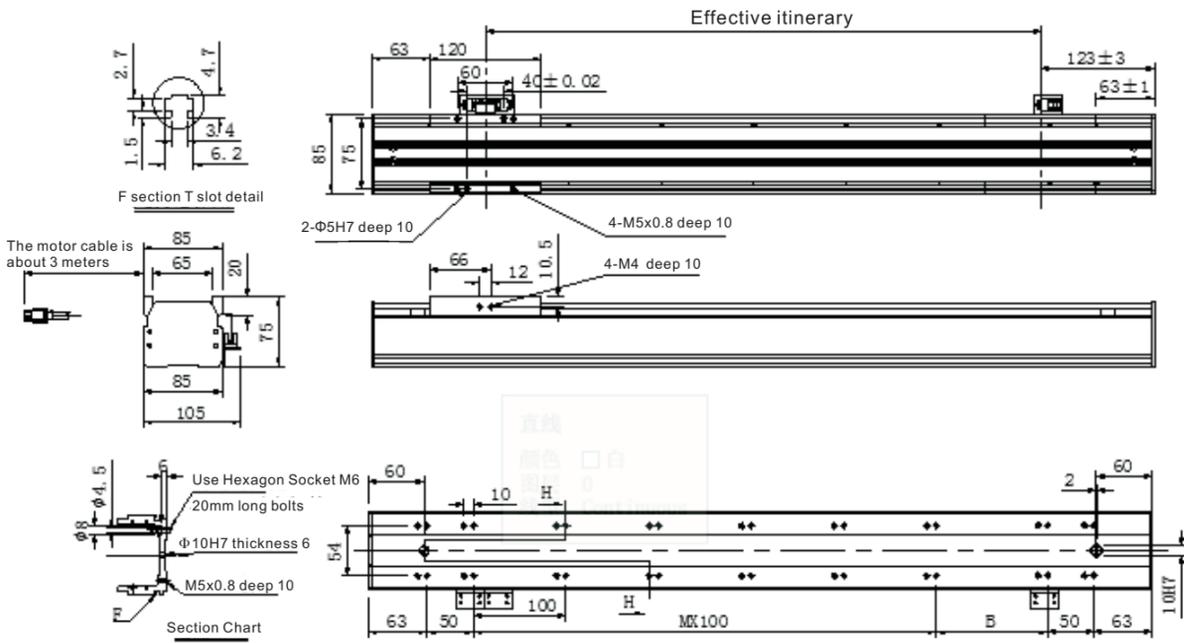
Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. Installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using $\phi 10$ positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM85D-16-N10-350 Linear module

Effective itinerary (mm)		350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L (Full length mm)		561	611	661	711	761	811	861	911	961	1011	1061	1111	1161	1211	1261		
B (Minimum distance)		45	95	45	95	45	95	45	95	45	95	45	95	45	95	45		
M (Hole quantity)		3	3	4	4	5	5	6	6	7	7	8	8	9	9	10		
Maximum speed (mm/s)	2000											2000	1900	1800	1700	1600	1500	1500
	Speed setting																	

Note: When the stroke is over 700mm, the resonance of the electric motor may occur (dangerous speed) depending on the action area. At this point, you should refer to the highest speed shown in the table above, through the program down speed.

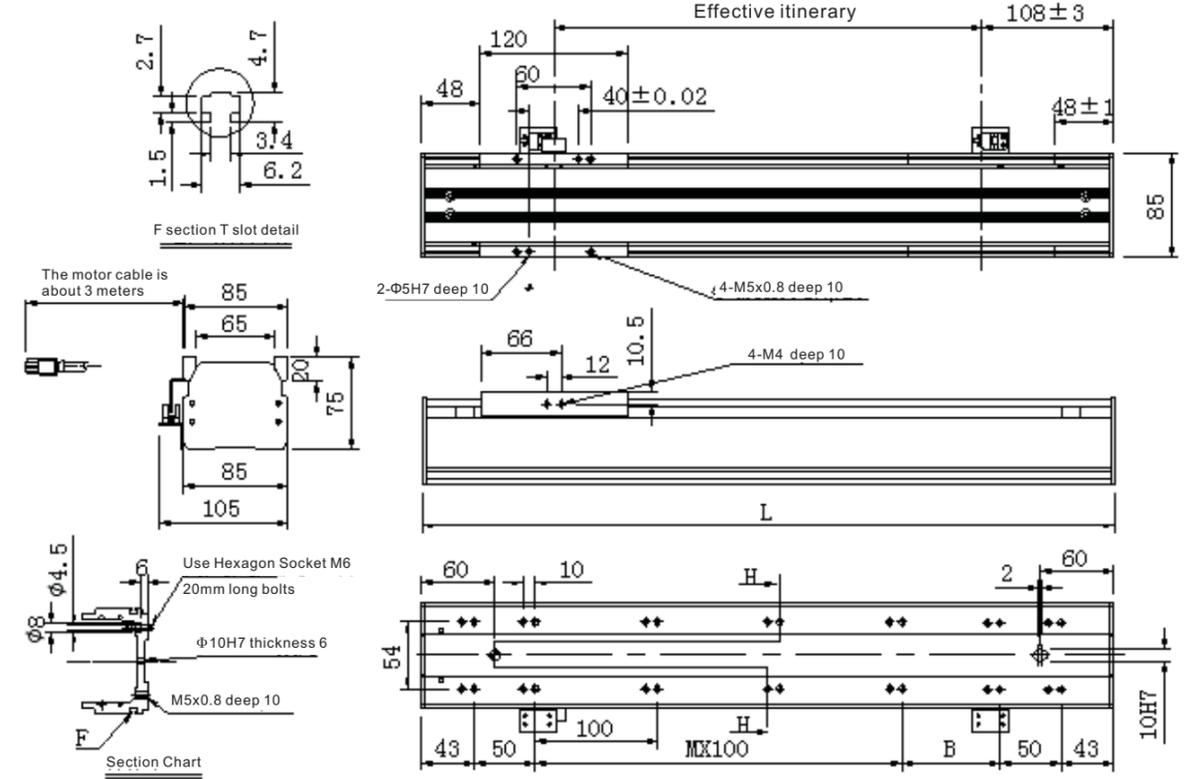


- Note :**
1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
 2. Installation should not be used inside the main machine washer.
 3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM85D-16-N15-100 Linear module

Effective itinerary (mm)		100	150	200	250	300	350						
L (Full length mm)		316	366	416	466	516	566						
B (Minimum distance)		30	80	30	80	30	80						
M (Hole quantity)		1	1	2	2	3	3						
Maximum speed (mm/s)	2000						2000	1900	1800	1700	1600	1500	1500
	Speed setting												

Note: When the stroke is over 700mm, the resonance of the electric motor may occur (dangerous speed) depending on the action area. At this point, you should refer to the highest speed shown in the table above, through the program down speed.

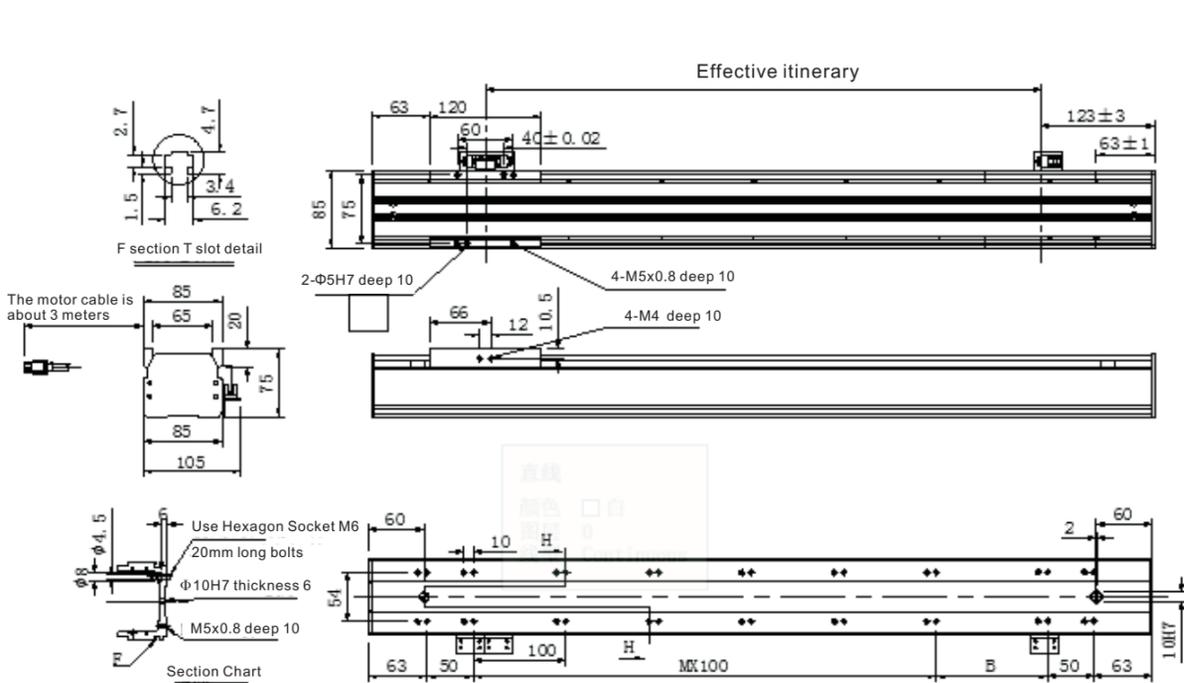


- Note :**
1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
 2. Installation should not be used inside the main machine washer.
 3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM85D-16-N15-350 Linear module

Effective itinerary (mm)		350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050		
L (Full length mm)		596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296		
B (Minimum distance)		70	120	70	120	70	120	70	120	70	120	70	120	70	120	70		
M (Hole quantity)		3	3	4	4	5	5	6	6	7	7	8	8	9	9	10		
Maximum speed (mm/s)	2000											2000	1900	1800	1700	1600	1500	1500
	Speed setting																	

Note: When the stroke is over 700mm, the resonance of the electric motor may occur (dangerous speed) depending on the action area. At this point, you should refer to the highest speed shown in the table above, through the program down speed.

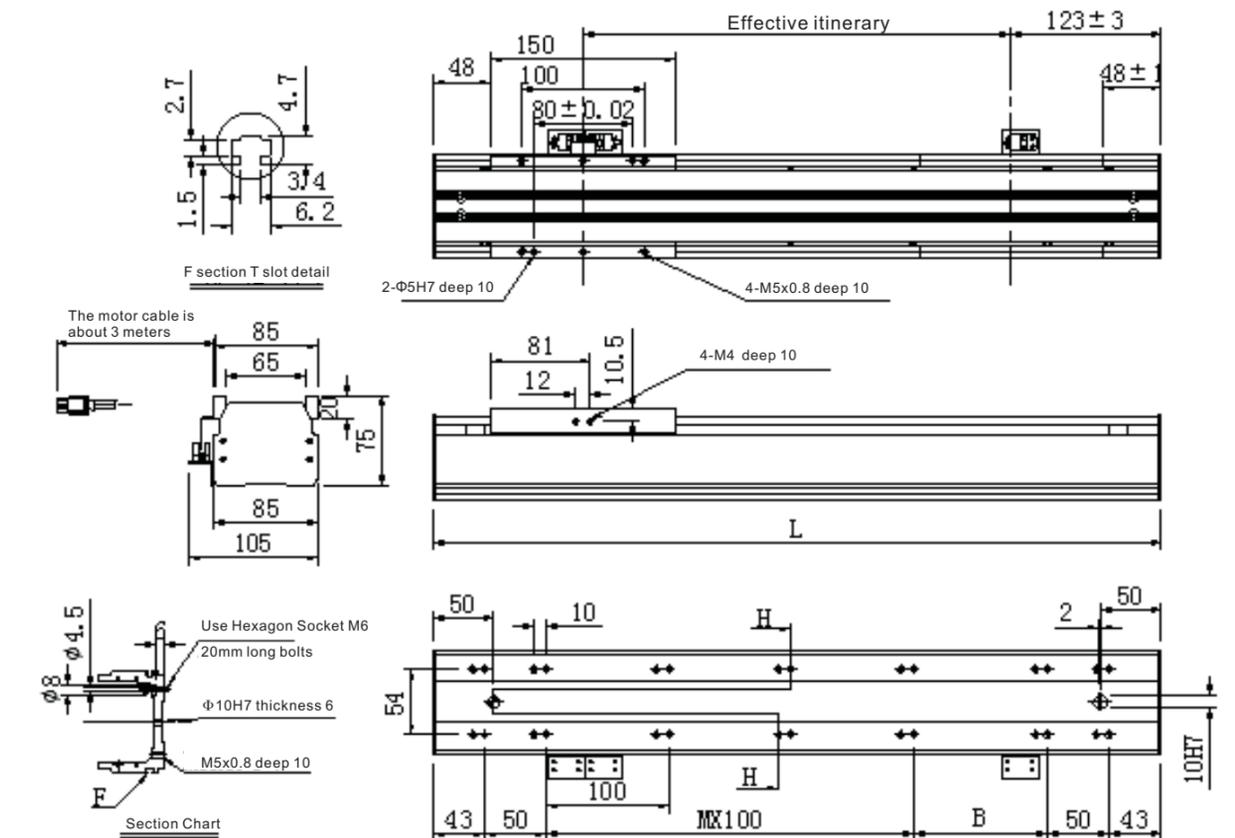


- Note :**
1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
 2. Installation should not be used inside the main machine washer.
 3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM85D-16-N20-100 Linear module

Effective itinerary (mm)		100	150	200	250	300	350	
L (Full length mm)		346	396	446	496	546	596	
B (Minimum distance)		60	110	60	110	60	110	
M (Hole quantity)		1	1	2	2	3	3	
Maximum speed (mm/s)	2000							
	Speed setting							

Note: When the stroke is over 700mm, the resonance of the electric motor may occur (dangerous speed) depending on the action area. At this point, you should refer to the highest speed shown in the table above, through the program down speed.

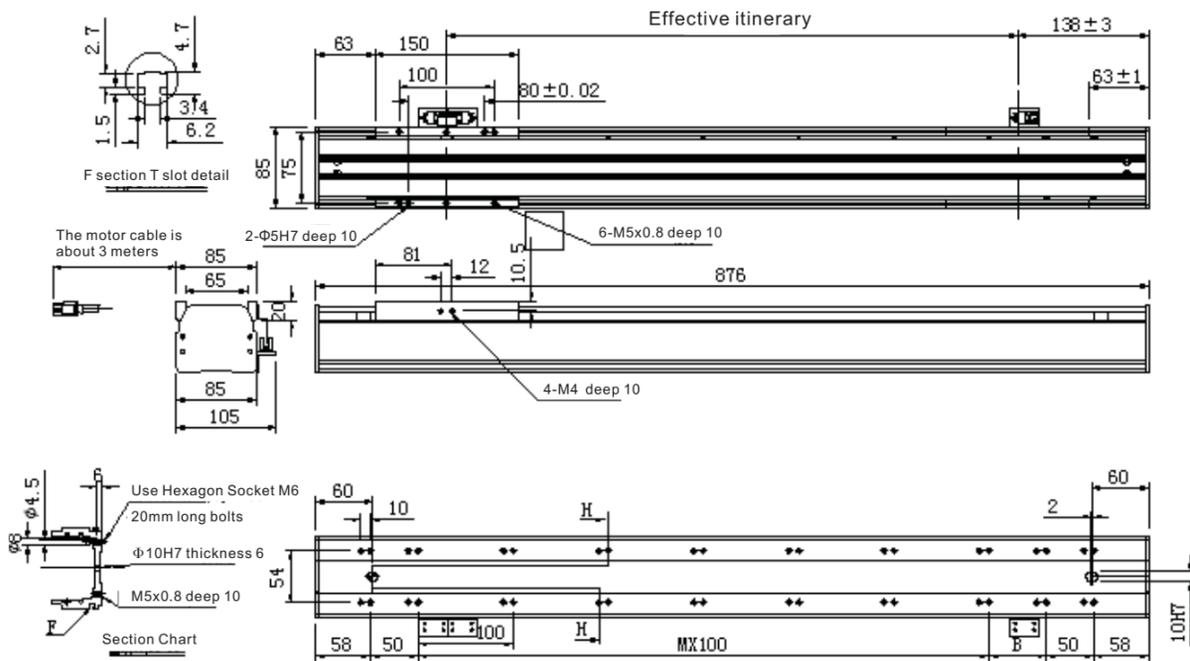


- Note :**
1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
 2. Installation should not be used inside the main machine washer.
 3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM85D-16-N20-350 Linear module

Effective itinerary (mm)	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050			
L (Full length mm)	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326			
B (Minimum distance)	110	60	110	60	110	60	110	60	110	60	110	60	110	60	110			
M (Hole quantity)	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10			
Maximum speed (mm/s)	2000											2000	1900	1800	1700	1600	1500	1500
	Speed setting																	

Note: When the stroke is over 700mm, the resonance of the electric motor may occur (dangerous speed) depending on the action area. At this point, you should refer to the highest speed shown in the table above, through the program down speed.

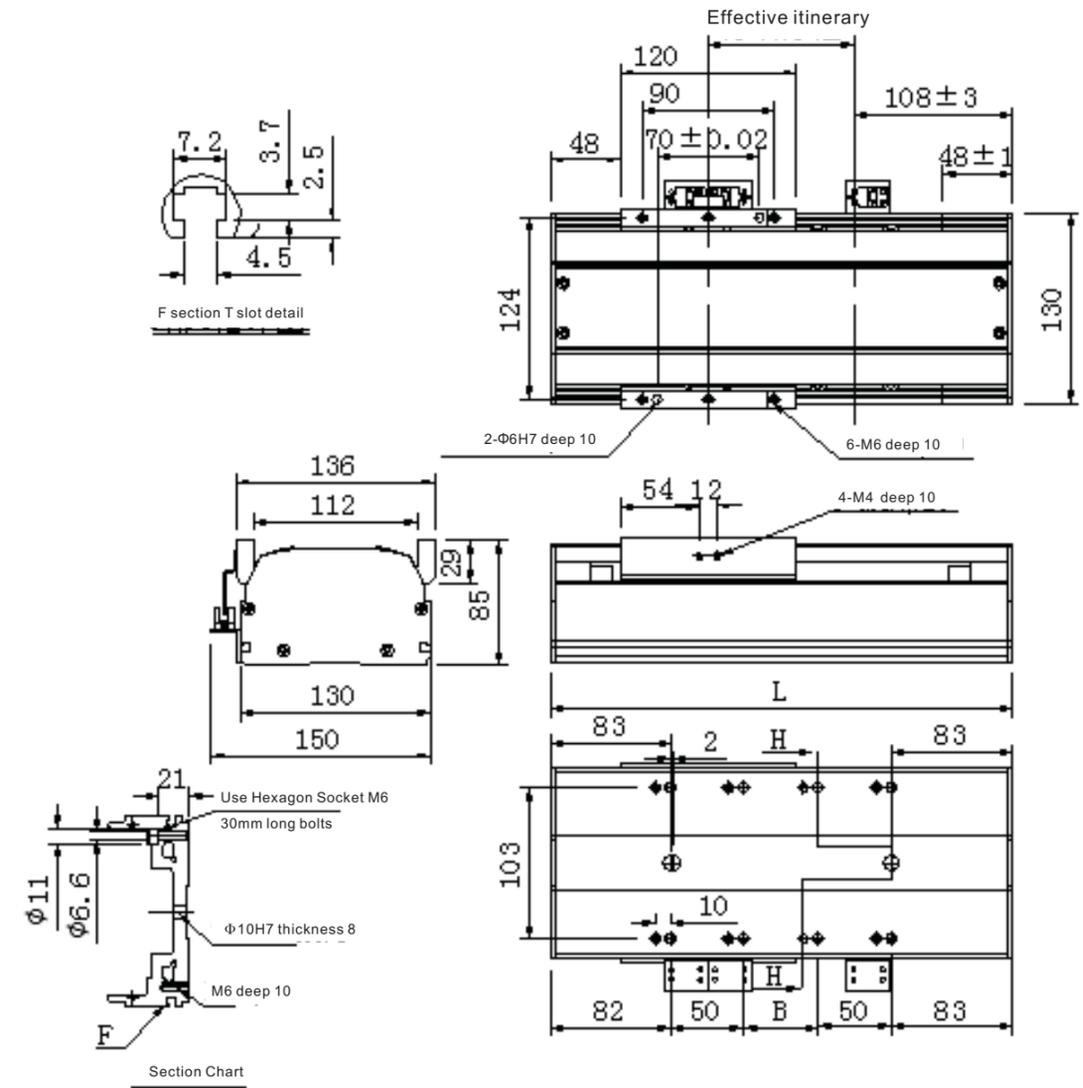


Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. Installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM130D-20-N18-100 Linear module

Effective itinerary (mm)	100	150	200	250	300
B (Minimum distance)	51	101	151	201	251
Maximum speed (mm/s)	2000				
	Speed setting				

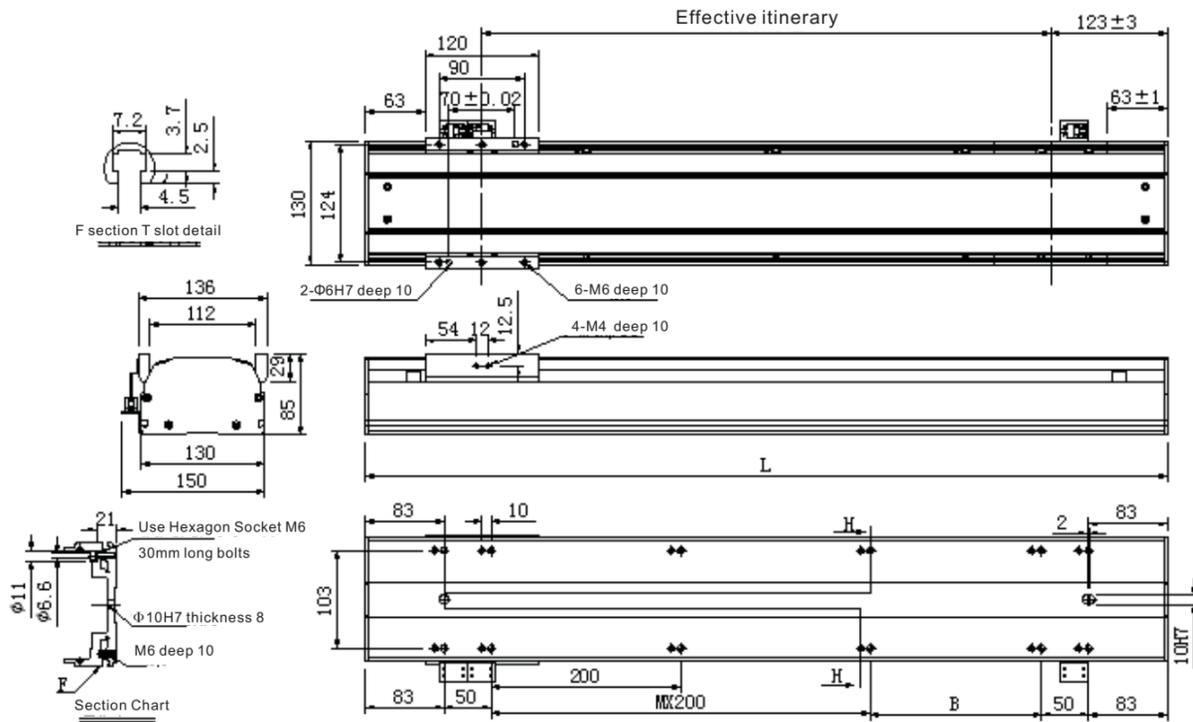


Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. Installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM130D-20-N18-600 Linear module

Effective itinerary (mm)	300	350	400	450	500	550	600	650	700
L (Full length mm)	546	596	646	696	746	796	846	896	946
B (Minimum distance)	80	130	180	30	80	130	180	30	80
M (Hole quantity)	1	1	1	2	2	2	2	3	3
Maximum speed (mm/s)	2000								
	Speed setting								



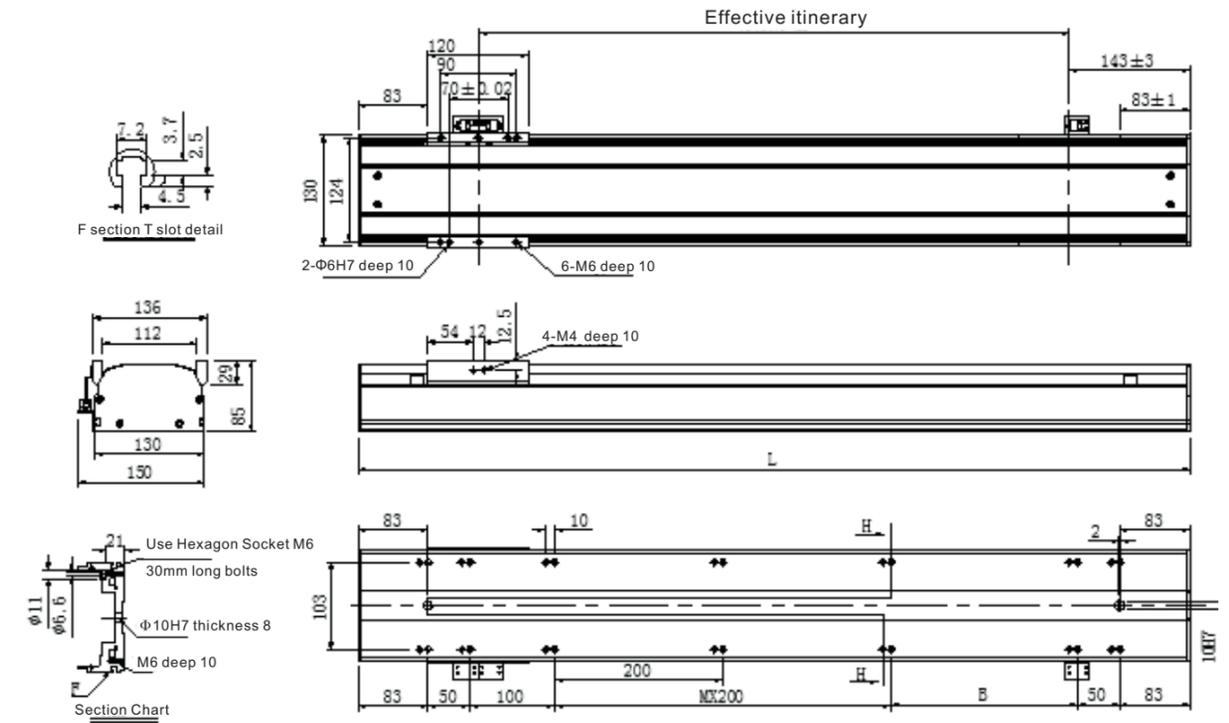
Note:

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. Installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM130D-20-N18-700 Linear module

Effective itinerary (mm)	700	750	800	850	900	950	1000	1050	1100	1150
L (Full length mm)	986	1036	1086	1136	1186	1236	1286	1336	1386	1436
B (Minimum distance)	221	71	121	171	21	71	121	30	80	130
M (Hole quantity)	2	3	3	3	4	4	4	4	4	4
Maximum speed (mm/s)	2000	2000	1900	1800	1700	1600	1500	1500	1500	1500
	Speed setting									

Note: When the stroke exceeds 700 mm, the resonance of the electric motor (dangerous speed) may occur depending on the operation area. At this point, should refer to the top of the table shown in the highest speed, through the program down speed.



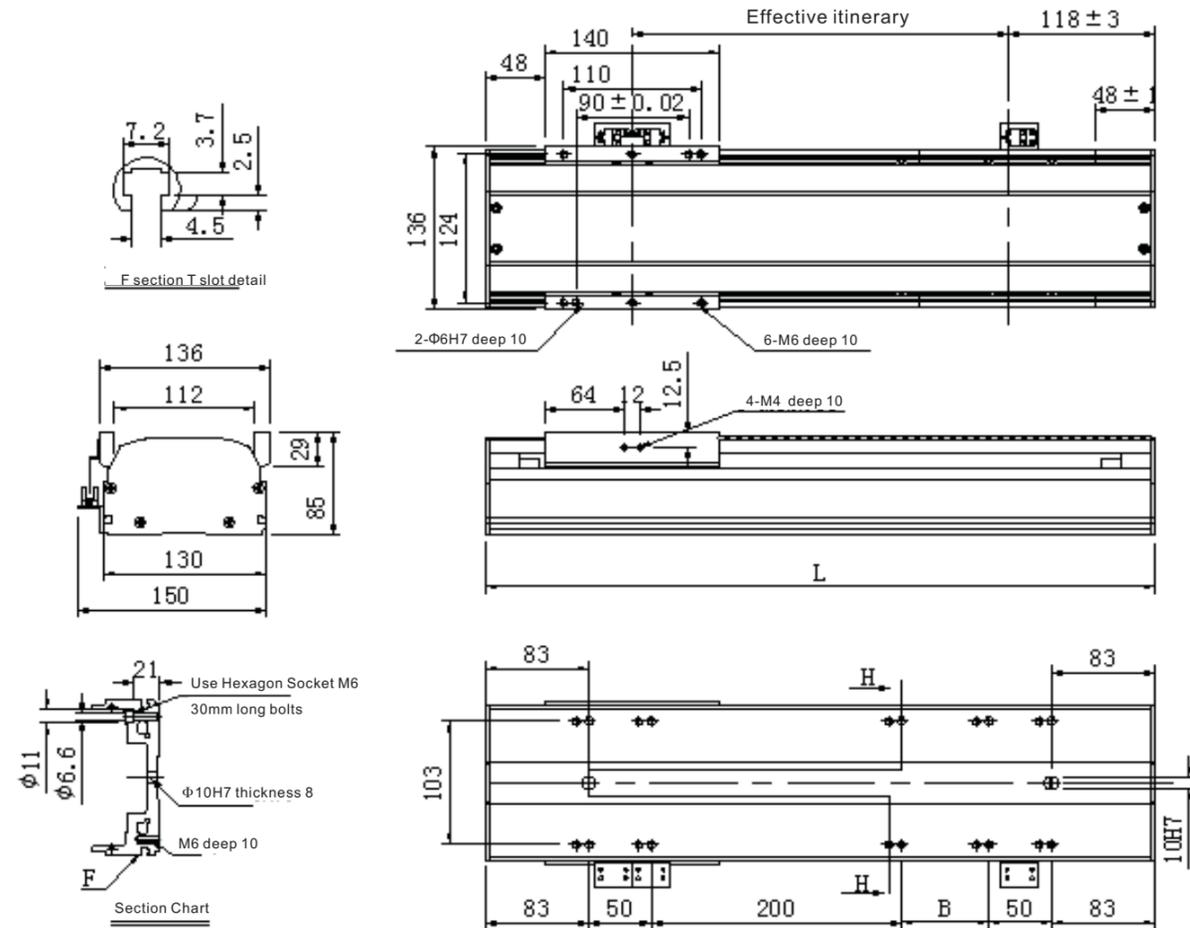
Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM130D-20-N28-300 Linear module

Effective itinerary (mm)	100	150	200	250	300
L (Full length mm)	336	386	436	486	536
B (Minimum distance)	70	120	170	220	70
M (Hole quantity)	0	0	0	0	1
Maximum speed (mm/s)	2000				
	Speed setting				

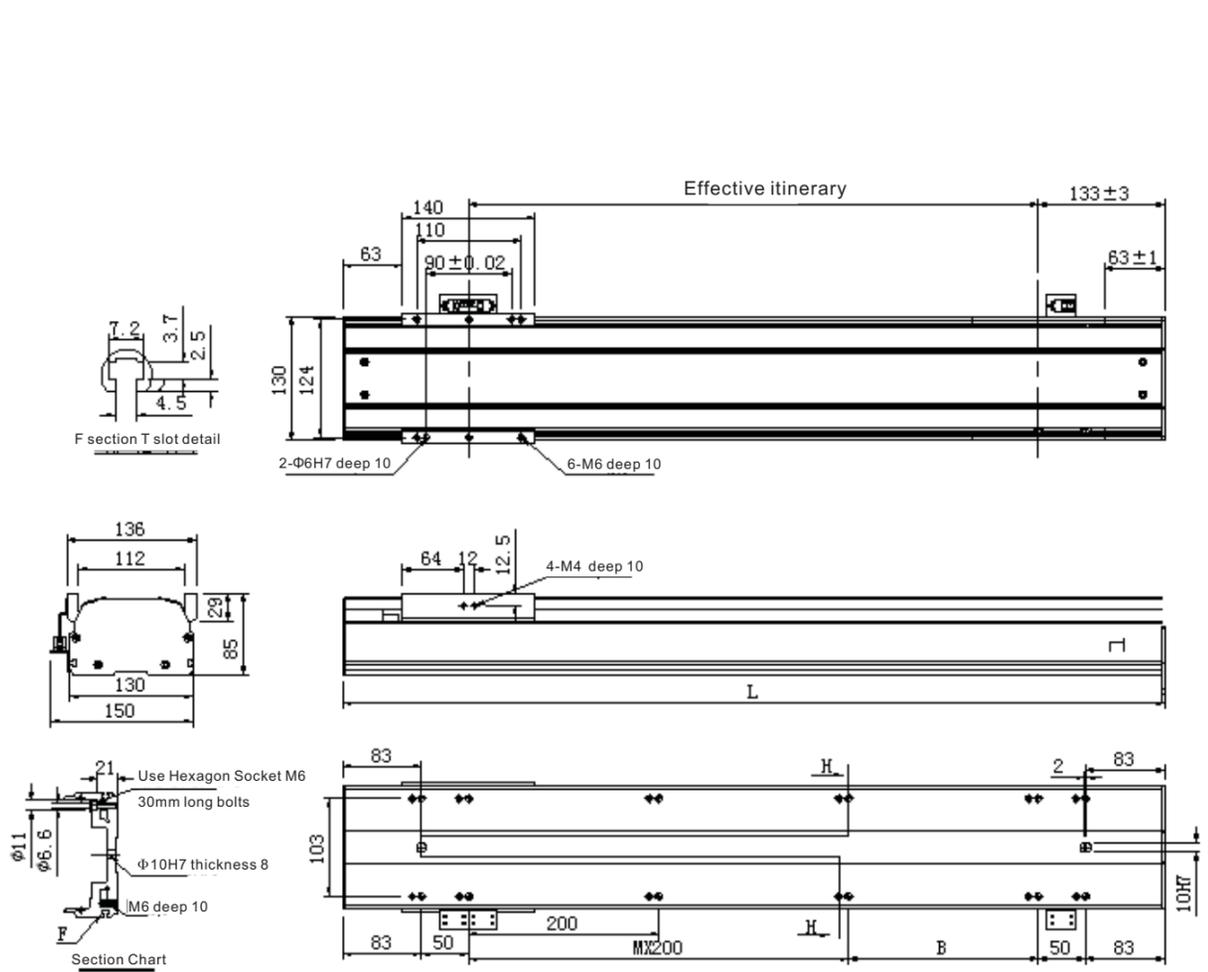
Note: When the stroke exceeds 700 mm, the resonance of the electric motor (dangerous speed) may occur depending on the operation area. At this point, should refer to the top of the table shown in the highest speed, through the program down speed.



- Note :**
1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
 2. installation should not be used inside the main machine washer.
 3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM130D-20-N28-600 Linear module

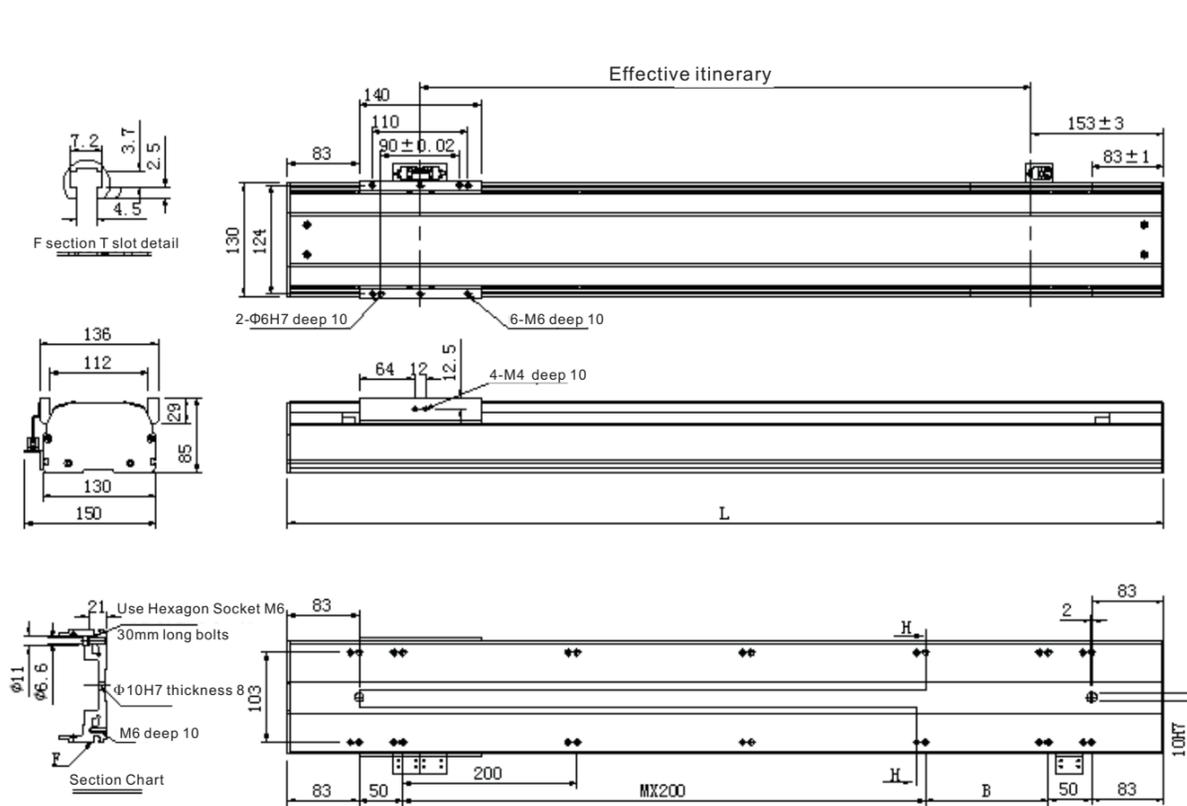
Effective itinerary (mm)	300	350	400	450	500	550	600	650	700
L (Full length mm)	566	616	666	716	766	816	866	916	966
B (Minimum distance)	100	150	200	50	100	150	200	50	100
M (Hole quantity)	1	1	1	2	2	2	2	3	3
Maximum speed (mm/s)	2000								
	Speed setting								



- Note :**
1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
 2. installation should not be used inside the main machine washer.
 3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM130D-20-N28-700 Linear module

Effective itinerary (mm)		700	750	800	850	900	950	1000	1050	1100
L (Full length mm)		1006	1056	1106	1156	1206	1256	1306	1356	1406
B (Minimum distance)		140	190	40	90	140	190	40	90	140
M (Hole quantity)		2	2	3	3	3	3	4	4	4
Maximum speed (mm/s)	2000	2000	1900	1800	1700	1600	1500	1500	1500	1500
	Speed setting									

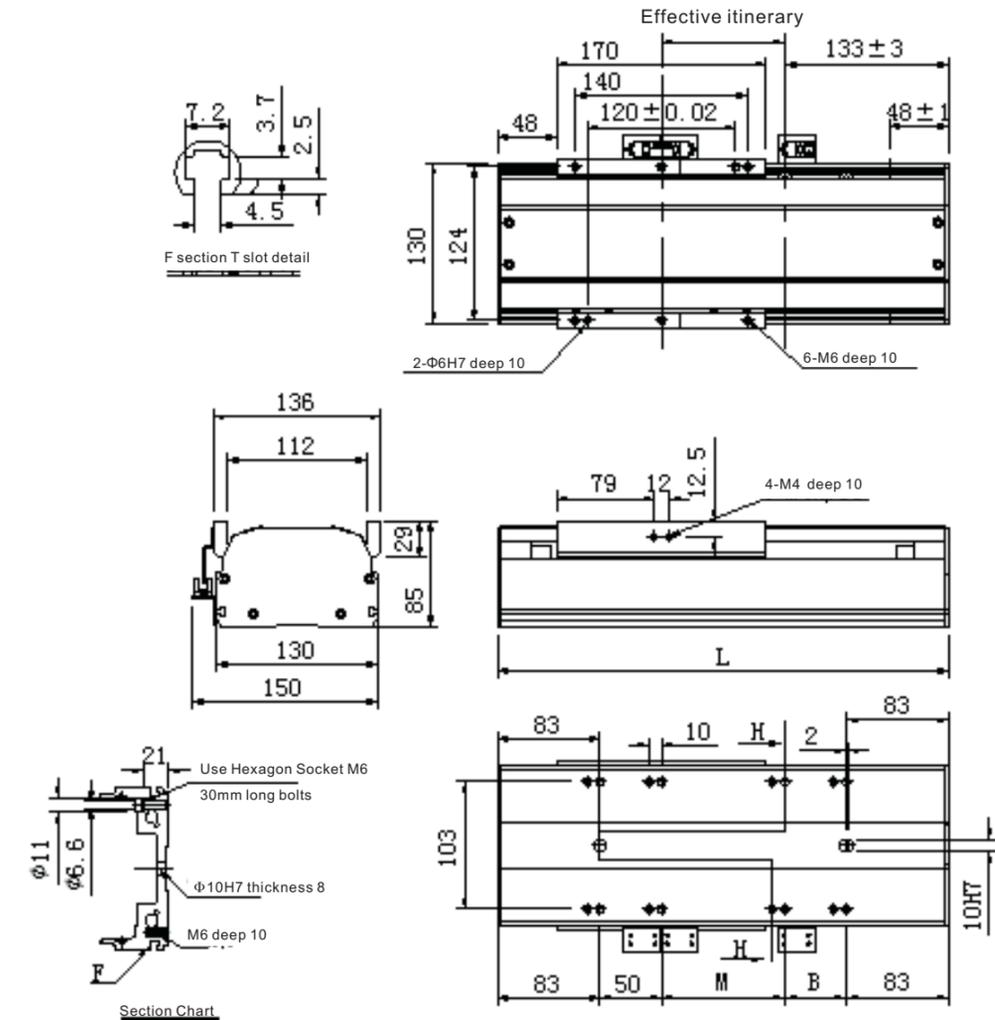


Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. Installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM130D-20-N38-100 Linear module

Effective itinerary (mm)		100	150	200	250	300
L (Full length mm)		366	416	466	516	666
B (Minimum distance)		50	100	150	200	250
M (Hole quantity)		100	150	200	250	300
Maximum speed (mm/s)	2000					
	Speed setting					



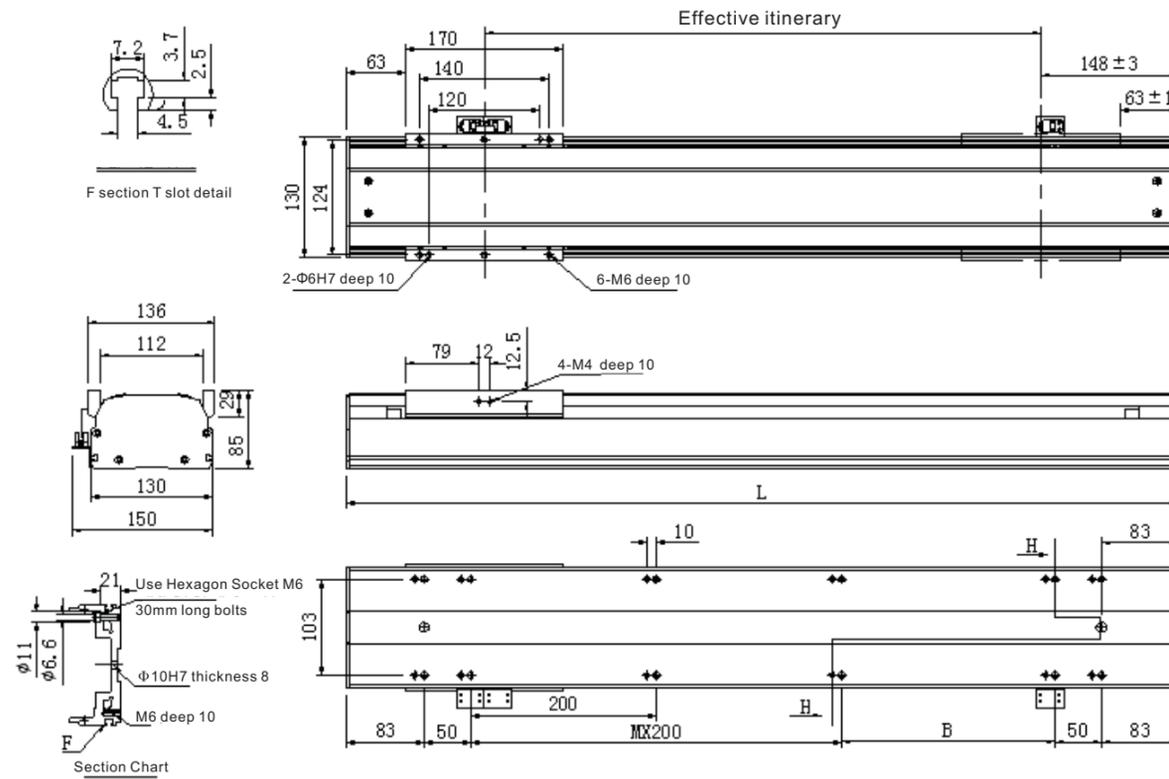
Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. Installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM130D-20-N38-600 Linear module

Effective itinerary (mm)	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L (Full length mm)	596	646	696	746	796	846	896	946	996	1046	1096	1146	1196	1246	1296	1346	1396
B (Minimum distance)	130	180	230	80	130	180	230	80	130	180	230	80	130	180	230	80	130
M (Hole quantity)	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
Maximum speed (mm/s)	2000																
	Speed setting																

Note: When the stroke exceeds 700 mm, the resonance of the electric motor (dangerous speed) may occur depending on the operation area. At this point, should refer to the top of the table shown in the highest speed, through the program down speed.

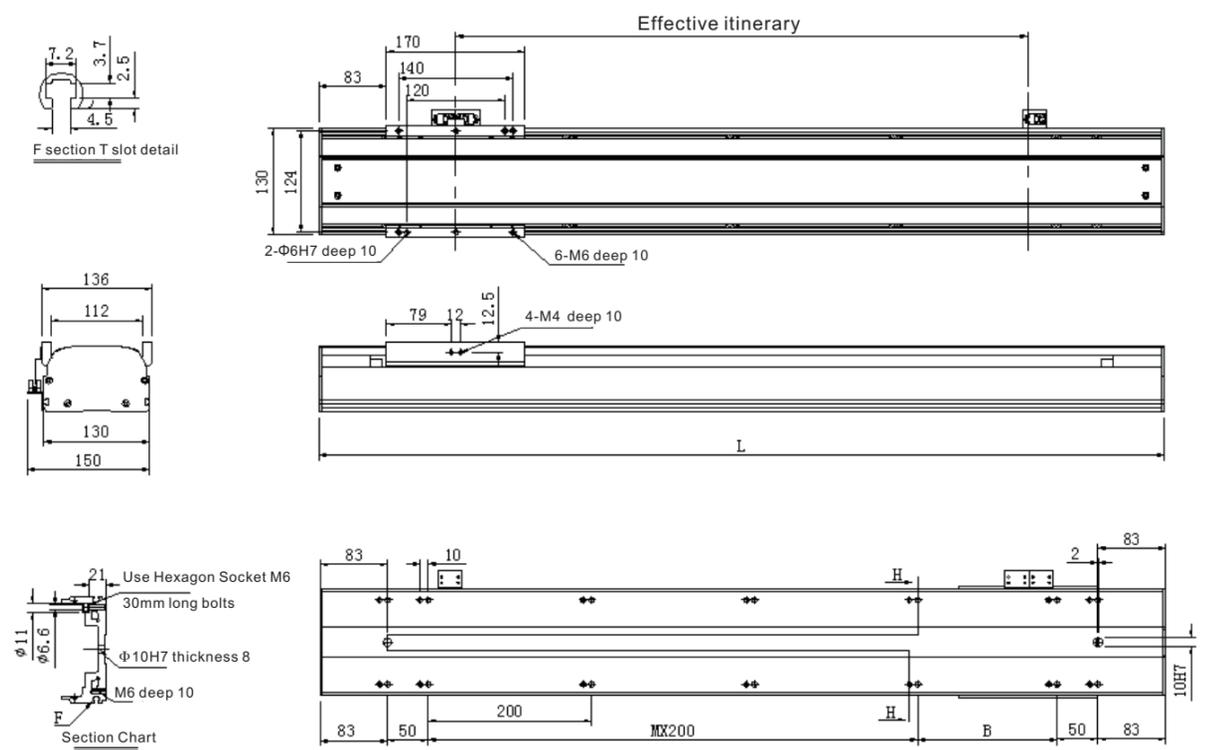


- Note :**
1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
 2. installation should not be used inside the main machine washer.
 3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM130D-20-N38-700 Linear module

Effective itinerary (mm)	700	750	800	850	900	950	1000	1050
L (Full length mm)	1036	1086	1136	1186	1236	1286	1336	1386
B (Minimum distance)	170	220	70	120	170	220	70	120
M (Hole quantity)	3	3	4	4	4	4	5	4
Maximum speed (mm/s)	2000	2000	1900	1800	1700	1600	1500	1500
	Speed setting							

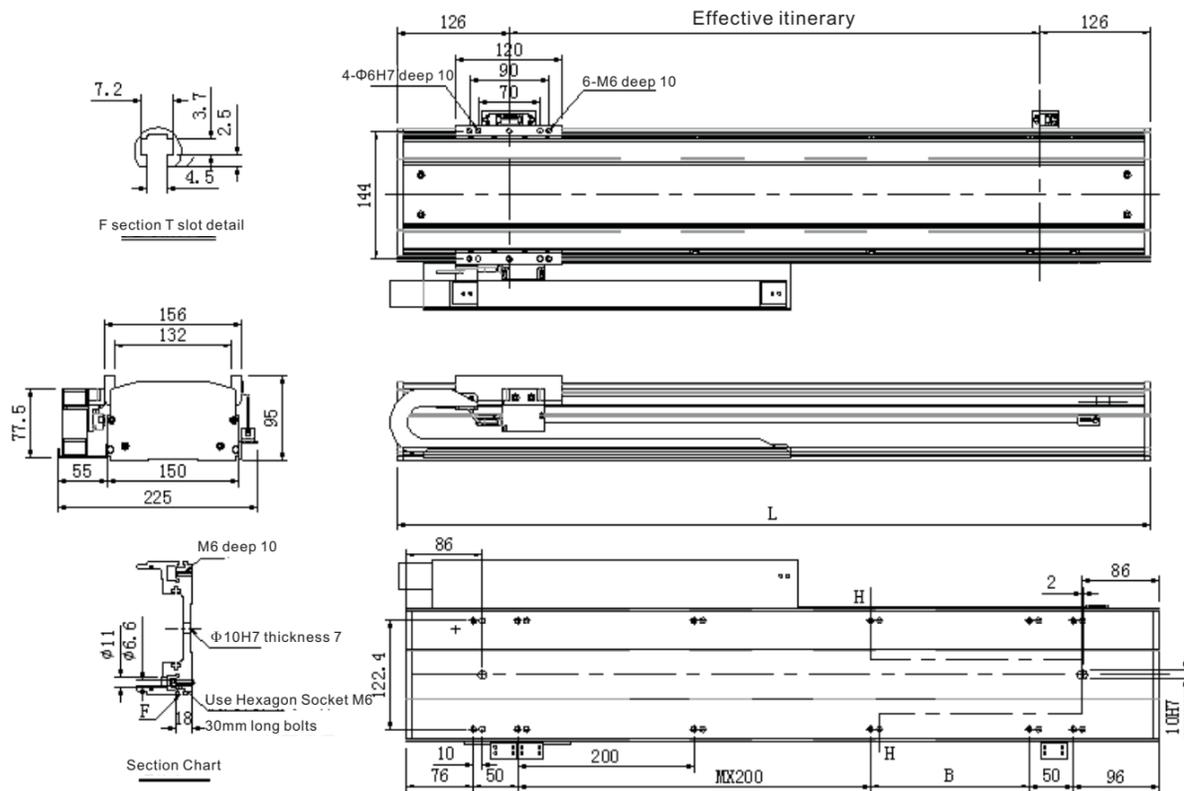
Note: When the stroke exceeds 700 mm, the resonance of the electric motor (dangerous speed) may occur depending on the operation area. At this point, should refer to the top of the table shown in the highest speed, through the program down speed.



- Note :**
1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
 2. installation should not be used inside the main machine washer.
 3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM150D-20-N18-600 Linear module

Effective itinerary (mm)		100	200	300	400	500	600	700	800	900	1000	1100	1200	
L (Full length mm)		352	452	552	652	752	852	952	1052	1152	1252	80	1452	
B (Minimum distance)		80	180	80	180	80	180	80	180	80	180	80	180	
M (Hole quantity)		0	0	1	1	2	2	3	3	4	4	5	5	
Maximum speed (mm/s)	2000							1900	1800	1700	1600	1500		
	Speed setting													

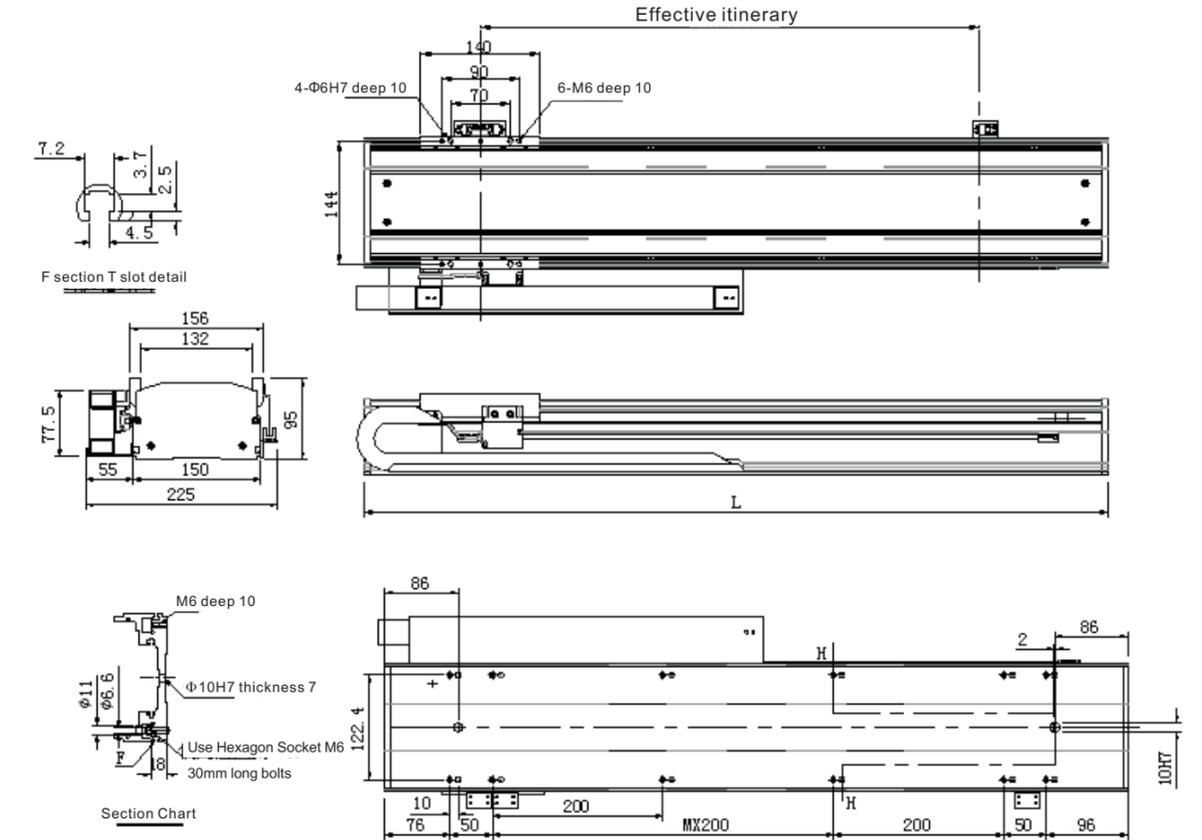


Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM150D-20-N28-600 Linear module

Effective itinerary (mm)		100	200	300	400	500	600	700
L (Full length mm)		372	472	572	672	772	872	952
B (Minimum distance)		100	0	100	0	100	0	80
M (Hole quantity)		0	1	1	2	2	3	3
Maximum speed (mm/s)	2000							
	Speed setting							

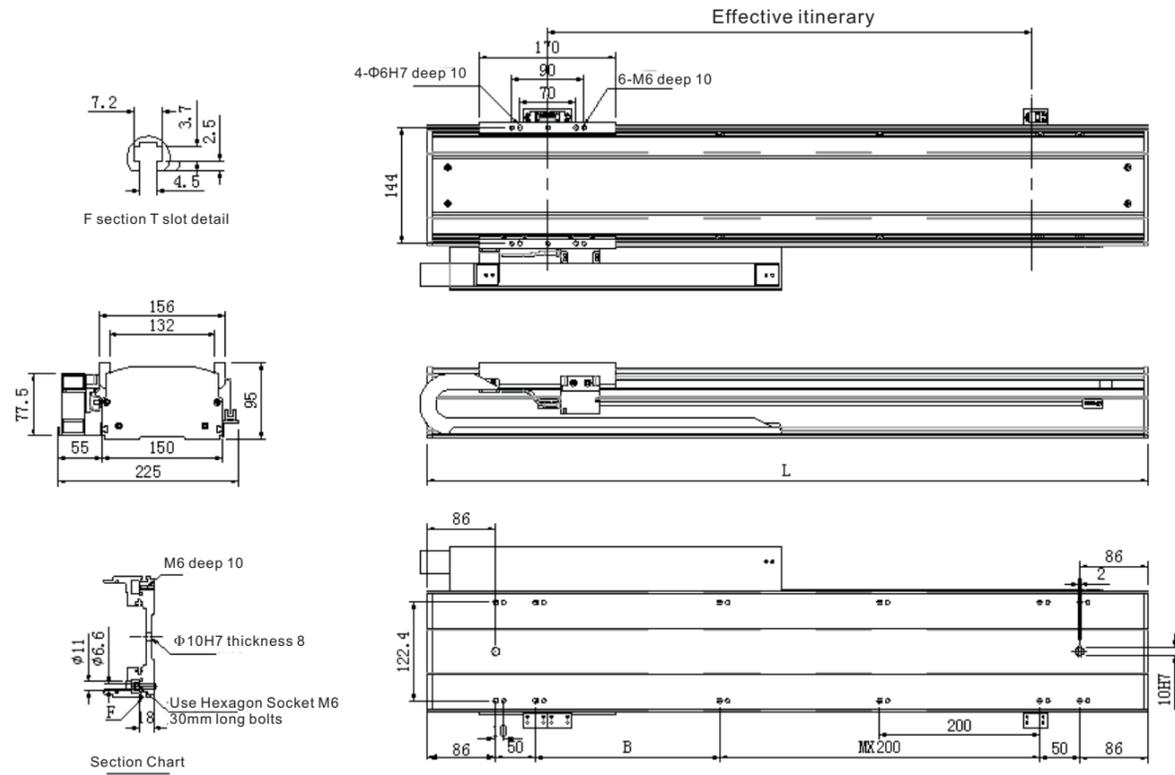


Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM150D-20-N38-600 Linear module

Effective itinerary (mm)	100	200	300	400	500	600	700
L (Full length mm)	402	502	602	702	802	902	1002
B (Minimum distance)	130	230	130	230	130	230	130
M (Hole quantity)	0	0	1	1	2	2	3
Maximum speed (mm/s)	2000						
	Speed setting						

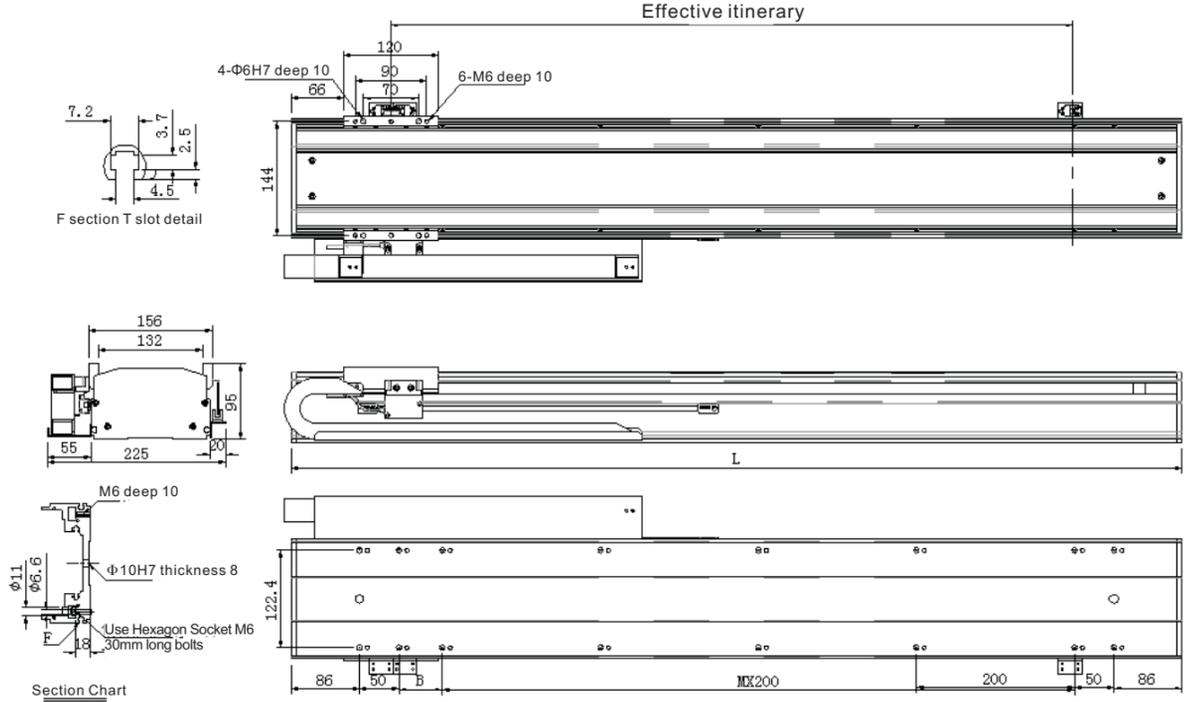


Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. Installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM150D-25-N40-600 Linear module

Effective itinerary (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
L (Full length mm)	352	452	552	652	752	852	952	1052	1152	1252	1352	1452	1552	1652	1752	1852
B (Minimum distance)	80	180	80	180	80	180	80	180	80	180	80	180	80	180	80	180
M (Hole quantity)	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
Maximum speed (mm/s)	2000															
	Speed setting															



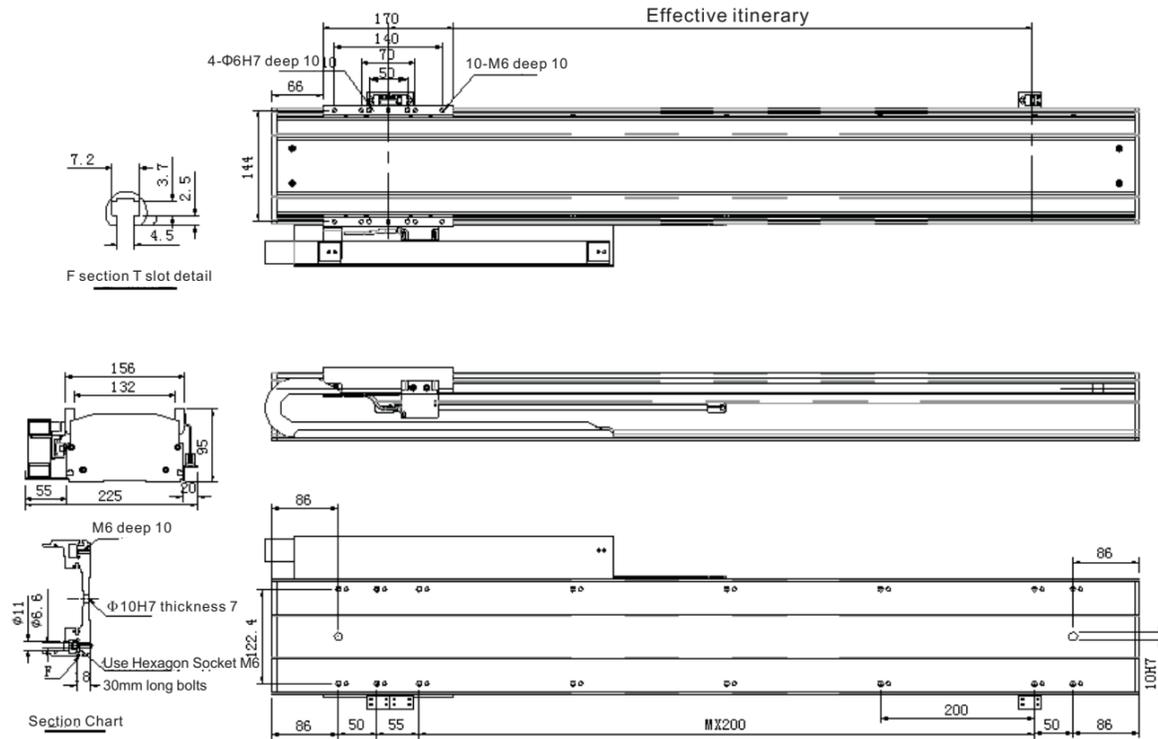
Note :

1. When the original point is reset, the moving range is from two ends to the stop position of the limit device.
2. Installation should not be used inside the main machine washer.
3. The bending radius of the motor cable is R50.4. During the installation of the mainframe, when using φ10 positioning rod hole, should be careful not to make the needle inside the host 6mm above.

LM150D-25-N60-600 Linear module

Effective itinerary (mm)	100	200	300	400	500	600	700	800	900	1000	1200	1300	1400	1500
L (Full length mm)	402	502	602	702	802	902	1002	1102	1202	1302	1402	1502	1602	1702
B (Minimum distance)	125	25	125	25	125	25	125	25	125	25	125	25	125	25
M (Hole quantity)	0	1	1	2	2	3	3	4	4	5	5	6	6	7
Maximum speed (mm/s)	2000													
	Speed setting													

Note: When the stroke exceeds 700 mm, the resonance of the electric motor (dangerous speed) may occur depending on the operation area. At this point, should refer to the top of the table shown in the highest speed, through the program down speed.



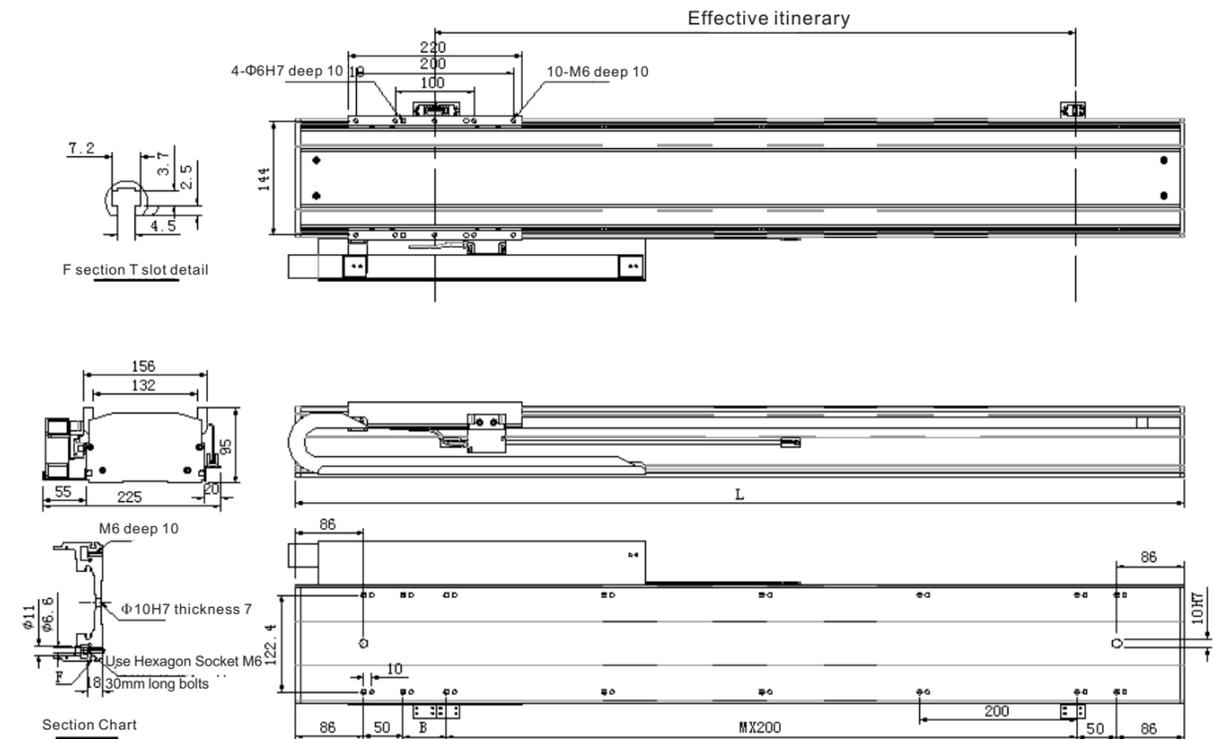
Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM150D-25-N75-600 Linear module

Effective itinerary (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
L (Full length mm)	452	552	652	752	852	952	1052	1152	1252	1352	1452	1552	1652	1752	1852	1952
B (Minimum distance)	180	80	180	80	180	80	180	80	180	80	180	80	180	80	180	80
M (Hole quantity)	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8
Maximum speed (mm/s)	2000															
	Speed setting															

Note: When the stroke exceeds 700 mm, the resonance of the electric motor (dangerous speed) may occur depending on the operation area. At this point, should refer to the top of the table shown in the highest speed, through the program down speed.



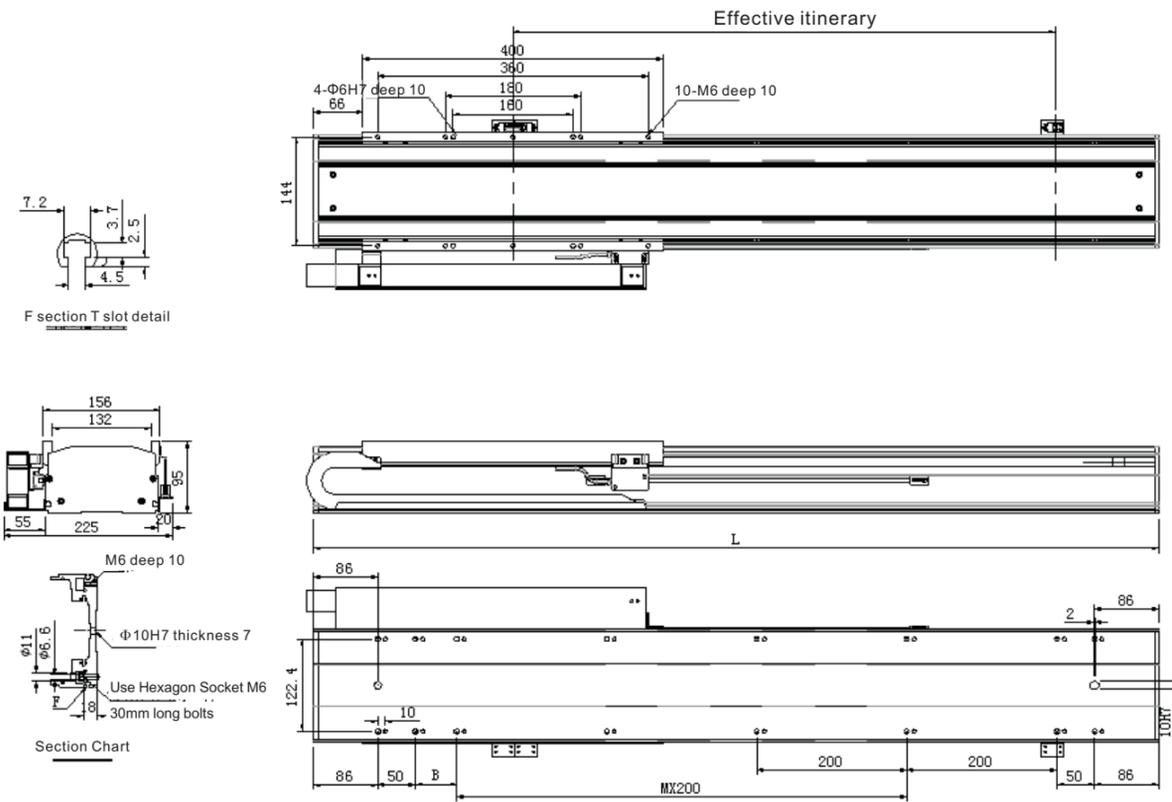
Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM150D-25-N139-600 Linear module

有效行程 (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
L (总长mm)	632	732	832	932	1032	1132	1232	1332	1432	1532	1632	1732	1832	1932	2032	2132	2232	2332
B (最小间距)	160	60	160	60	160	60	160	60	160	60	160	60	160	60	160	60	160	60
M (孔数量)	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
最高速度 (mm/s)	2000																	
	速度设定																	

Note: When the stroke exceeds 700 mm, the resonance of the electric motor (dangerous speed) may occur depending on the operation area. At this point, should refer to the top of the table shown in the highest speed, through the program down speed.

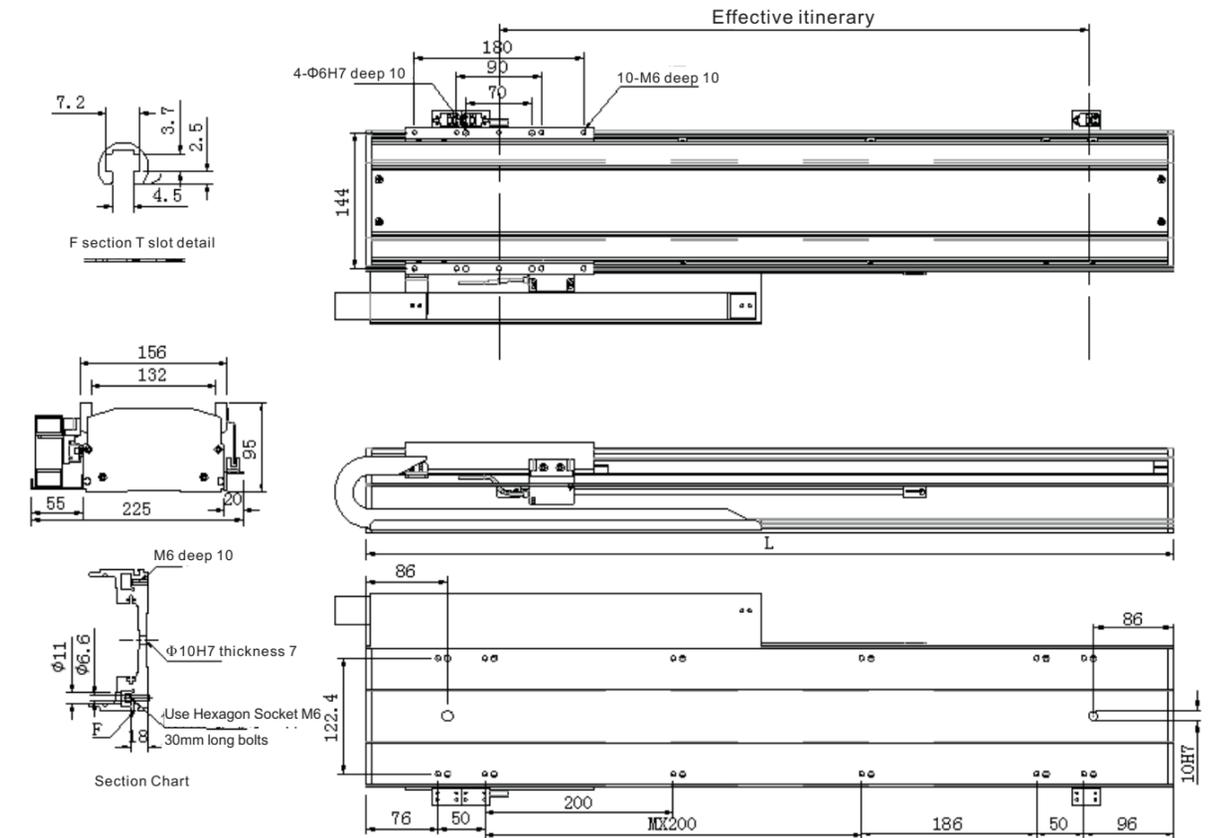


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM150F-45-N46-600 Linear module

Effective itinerary (mm)	120	240	360	480	600	720	840	960	1080	1200	1320	1440	1560
L (Full length mm)	322	442	562	682	802	922	1042	1162	1282	1402	1522	1642	1762
B (Minimum distance)	0	90	210	110	230	130	230	130	230	150	270	90	210
M (Hole quantity)	0	1	1	2	2	3	3	4	4	5	5	6	6
Maximum speed (mm/s)	2000												
	Speed setting												

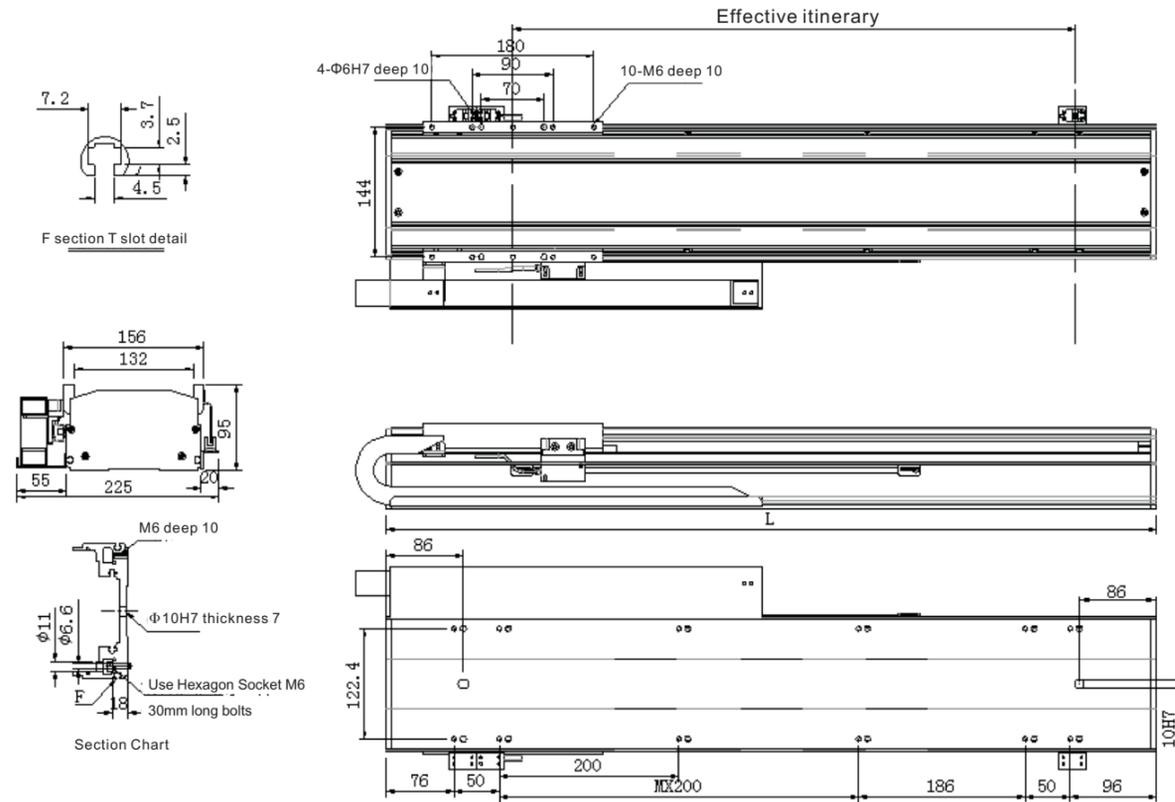


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM150F-45-N86-600 Linear module

Effective itinerary (mm)	120	240	360	480	576	720	840	960	1080	1200	1320	1440	1560
L (Full length mm)	489	585	681	777	873	969	1065	1161	1257	1353	1449	1545	1641
B (Minimum distance)	113	209	105	110	201	97	193	89	185	81	177	73	169
M (Hole quantity)	0	0	1	2	2	3	3	4	4	5	5	6	6
Maximum speed (mm/s)	2000												
	Speed setting												

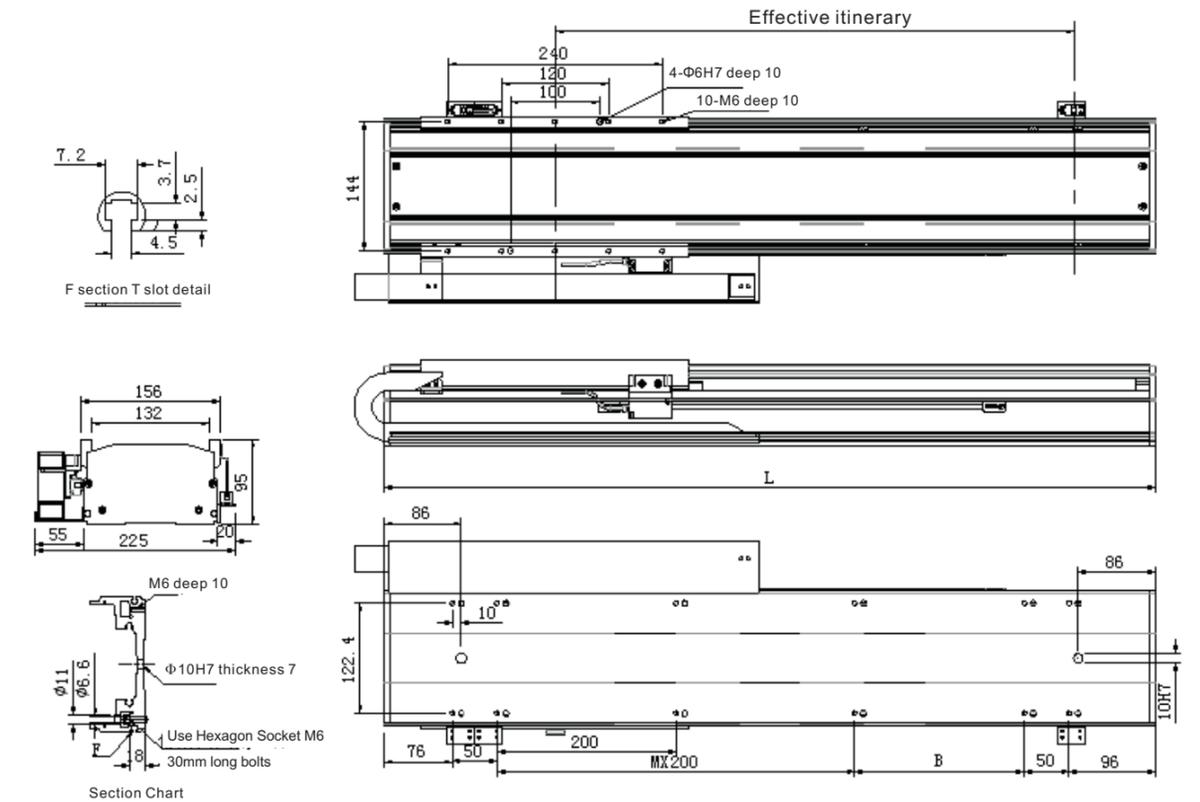


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM150F-45-N129-600 Linear module

Effective itinerary (mm)	96	192	288	384	480	576	672	768	864	960	1056	1152	1248	1344
L (Full length mm)	478	574	670	766	862	958	1054	1150	1246	1342	1438	1534	1630	
B (Minimum distance)	206	102	198	94	190	201	86	182	78	174	70	166	62	158
M (Hole quantity)	0	1	1	2	2	2	3	3	4	4	5	5	6	6
Maximum speed (mm/s)	2000													
	Speed setting													

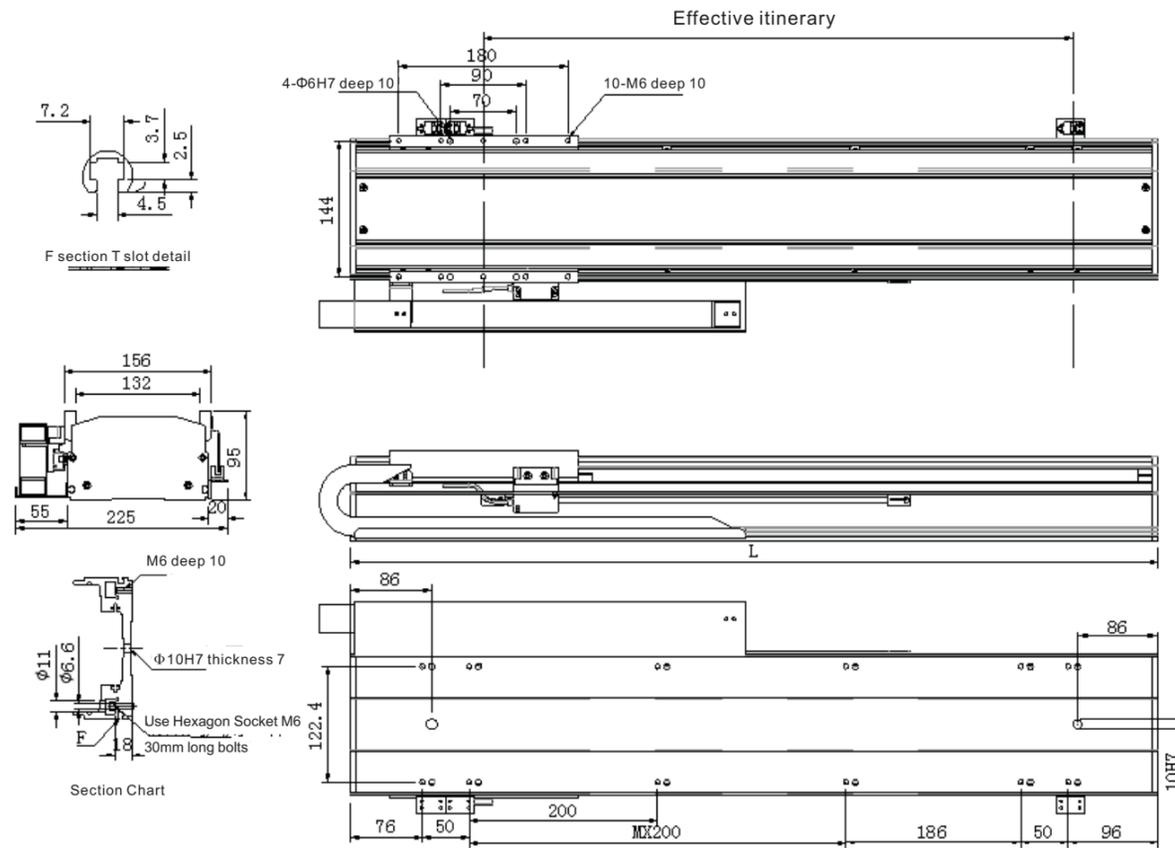


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM150F-60-N81-600 Linear module

Effective itinerary (mm)	120	240	360	480	600	720	840	960	1080	1200	1320	1440	1560
L (Full length mm)	322	442	562	682	802	922	1042	1162	1282	1402	1522	1642	1762
B (Minimum distance)	0	90	210	110	230	130	230	130	230	150	270	90	210
M (Hole quantity)	0	1	1	2	2	3	3	4	4	5	5	6	6
Maximum speed (mm/s)	2000												
	Speed setting												

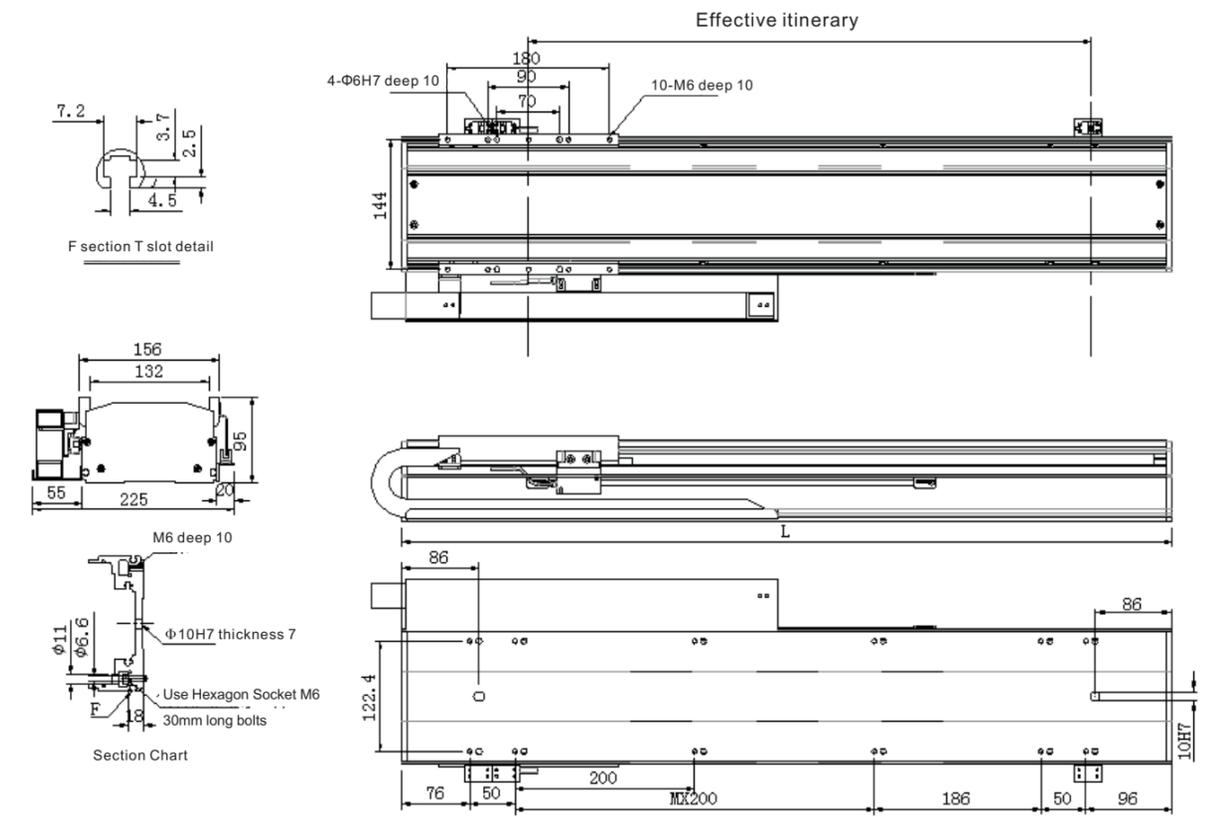


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM150F-60-N152-600 Linear module

Effective itinerary (mm)	120	240	360	480	576	720	840	960	1080	1200	1320	1440	1560
L (Full length mm)	489	585	681	777	873	969	1065	1161	1257	1353	1449	1545	1641
B (Minimum distance)	113	209	105	110	201	97	193	89	185	81	177	73	169
M (Hole quantity)	0	0	1	2	2	3	3	4	4	5	5	6	6
Maximum speed (mm/s)	2000												
	Speed setting												

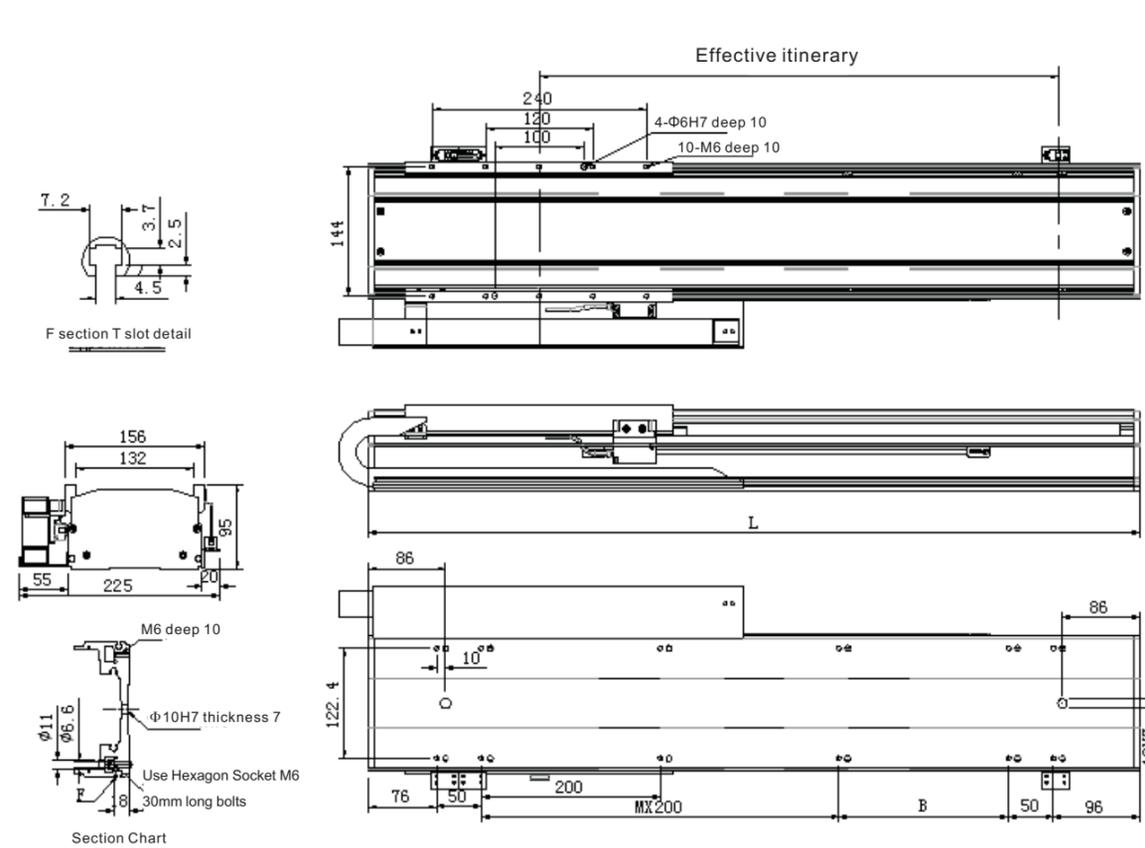


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM150F-60-N218-600 Linear module

Effective itinerary (mm)	96	192	288	384	480	576	672	768	864	960	1056	1152	1248	1344
L (Full length mm)	478	574	670	766	862	873	958	1054	1150	1246	1342	1438	1534	1630
B (Minimum distance)	206	102	198	94	190	201	86	182	78	174	70	166	62	158
M (Hole quantity)	0	1	1	2	2	2	3	3	4	4	5	5	6	6
Maximum speed (mm/s)	2000													
	Speed setting													

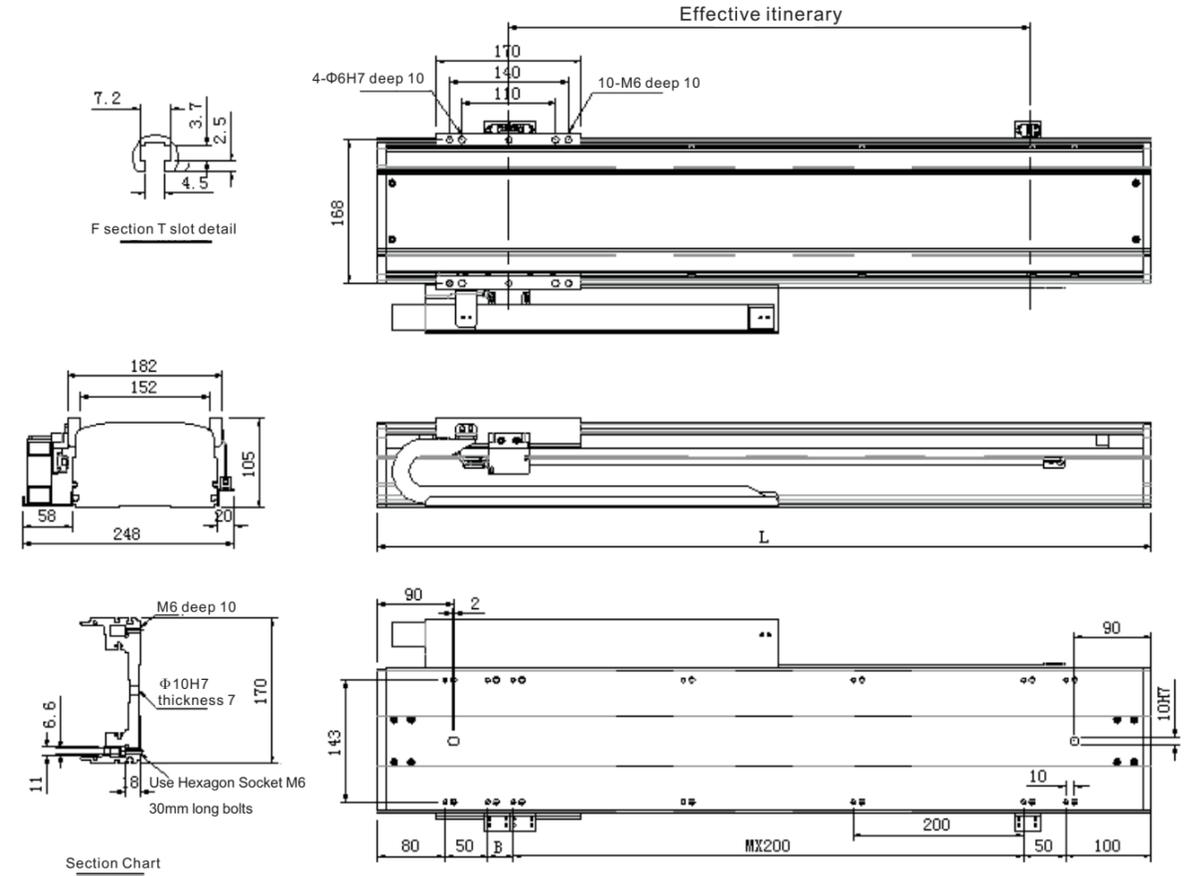


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170D-35-N105-600 Linear module

Effective itinerary (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200
L (Full length mm)	410	510	610	710	810	910	1010	1110	1210	1310	1410	1510
B (Minimum distance)	130	30	130	30	130	30	130	30	130	30	130	30
M (Hole quantity)	0	1	1	2	2	3	3	4	4	5	5	6
Maximum speed (mm/s)	2000											
	Speed setting											

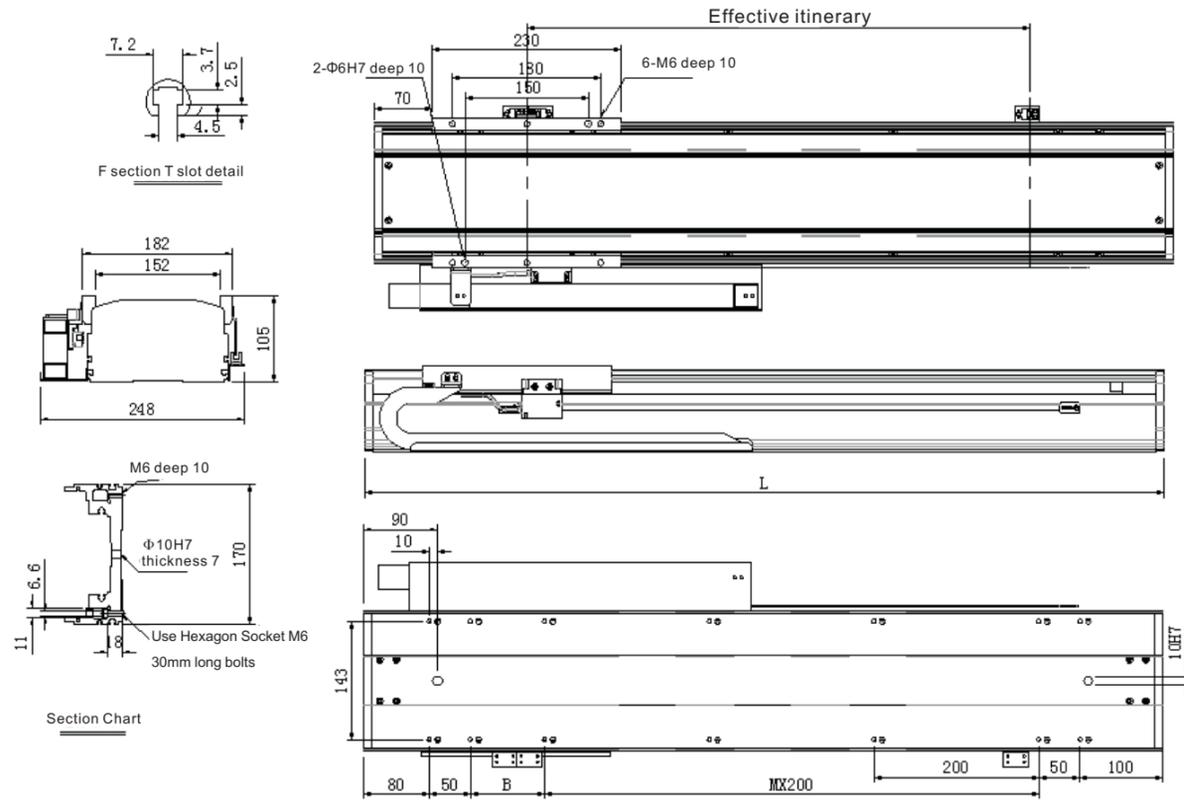


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170D-35-N150-600 Linear module

Effective itinerary (mm)		100	200	300	400	500	600	700	800	900	1000	1100	1200
L (Full length mm)		470	570	670	770	870	970	1070	1170	1270	1370	1470	1570
B (Minimum distance)		90	190	190	90	190	90	190	90	190	90	190	90
M (Hole quantity)		1	1	1	2	2	3	3	4	4	5	5	6
Maximum speed (mm/s)	2000												
	Speed setting												

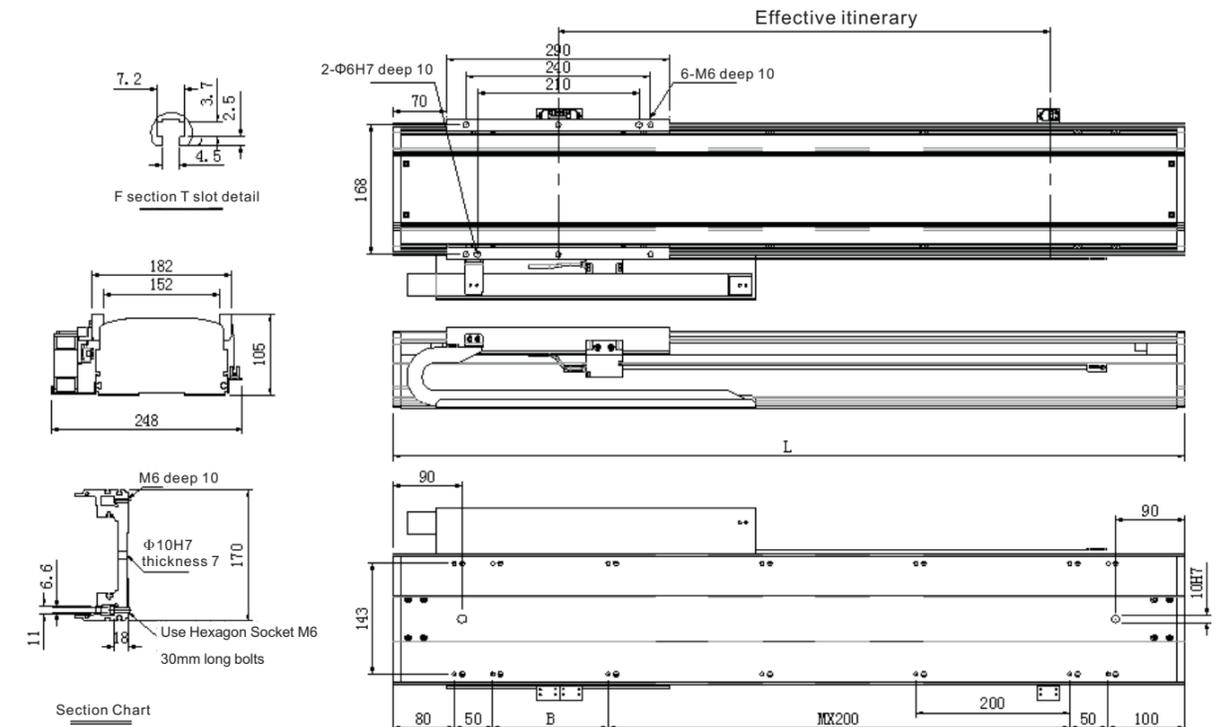


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170D-35-N190-600 Linear module

Effective itinerary (mm)		100	200	300	400	500	600	700	800	900	1000	1100	1200
L (Full length mm)		530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630
B (Minimum distance)		50	150	50	150	50	150	50	150	50	150	50	150
M (Hole quantity)		1	1	2	2	3	3	4	4	5	5	6	6
Maximum speed (mm/s)	2000												
	Speed setting												

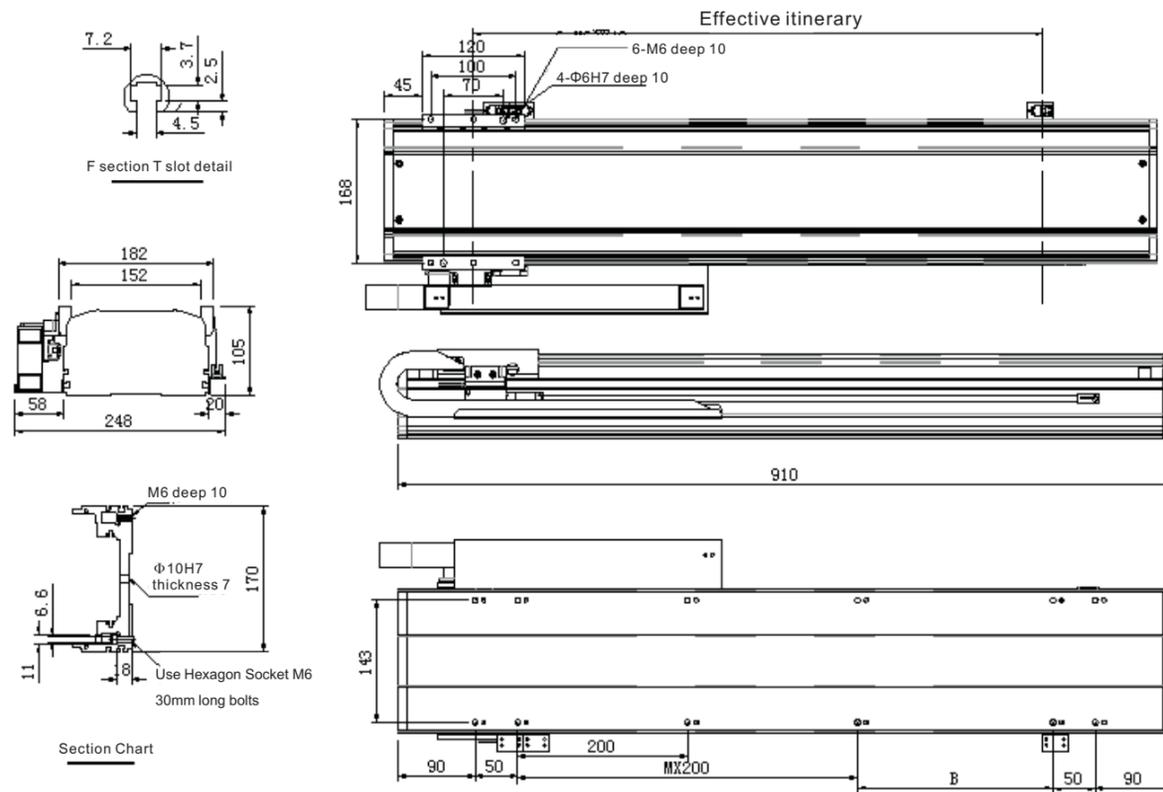


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170F-80-N122-600 Linear module

Effective itinerary (mm)		100	200	300	400	500	600	700	800	900	1000	1100	1200
L (Full length mm)		410	510	610	710	810	810	1010	1110	1210	1310	1410	1510
B (Minimum distance)		130	30	130	30	130	30	130	30	130	30	130	30
M (Hole quantity)		0	1	1	2	2	3	3	4	4	5	5	6
Maximum speed (mm/s)	2000												
	Speed setting												

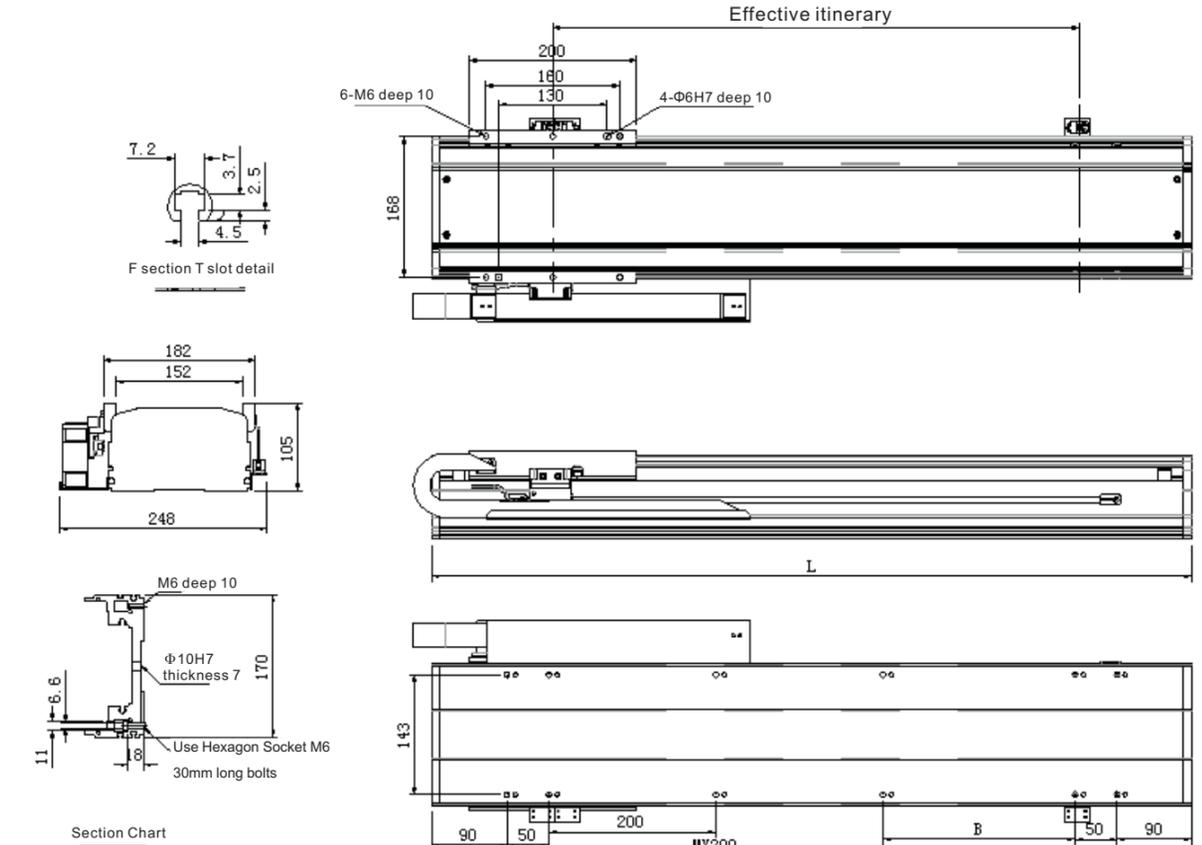


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170F-80-N230-600 Linear module

Effective itinerary (mm)		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
L (Full length mm)		390	490	590	690	790	890	1010	1110	1210	1310	1410	1510	1610	1710
B (Minimum distance)		0	10	110	210	110	210	110	210	110	210	110	210	110	210
M (Hole quantity)		0	0	1	1	2	2	3	4	4	5	5	6	6	7
Maximum speed (mm/s)	2000														
	Speed setting														

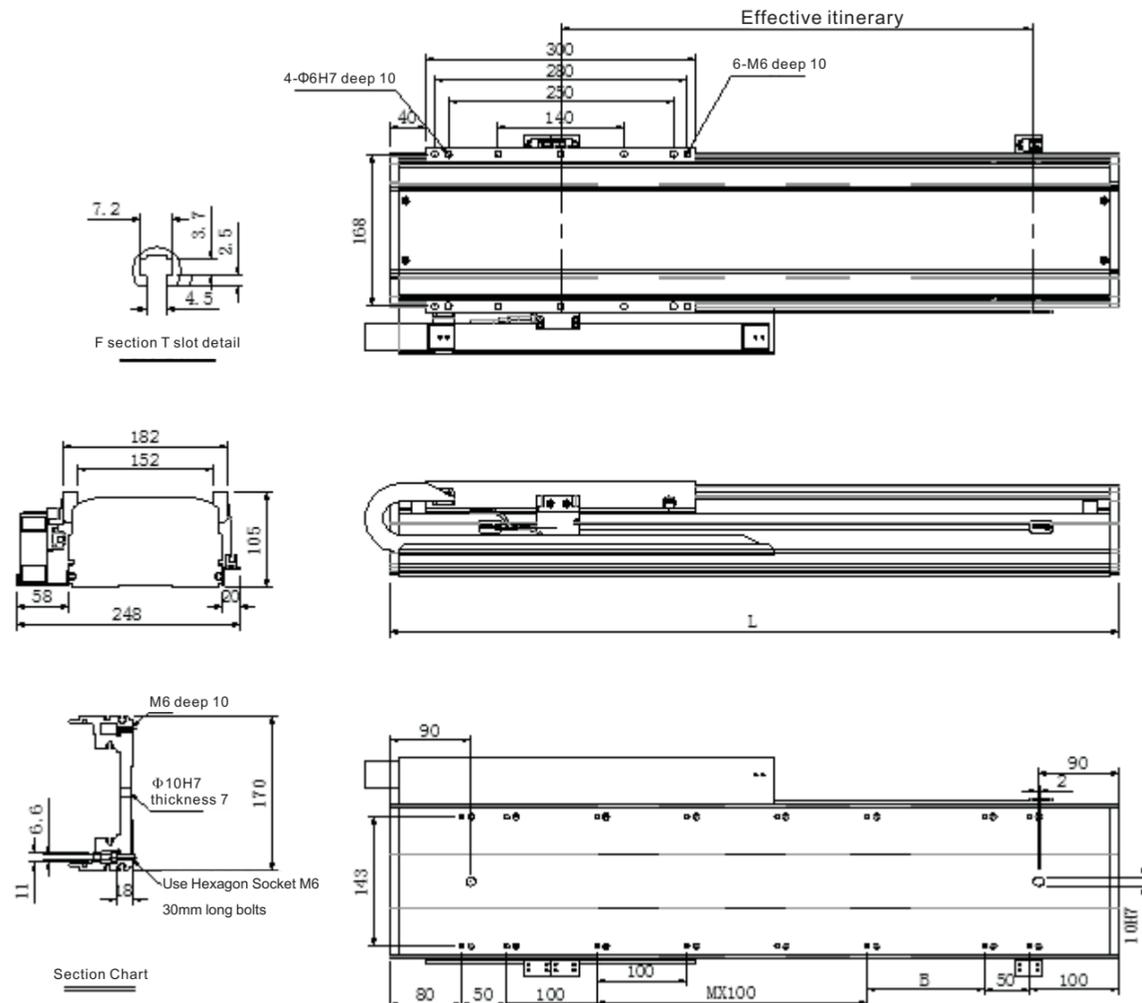


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170DF-80-N330-600 Linear module

Effective itinerary (mm)		100	200	300	400	500	600	700	800	900	1000	1100	1200
L (Full length mm)		410	510	610	710	810	810	1010	1110	1210	1310	1410	1510
B (Minimum distance)		130	30	130	30	130	30	130	30	130	30	130	30
M (Hole quantity)		0	1	1	2	2	3	3	4	4	5	5	6
Maximum speed (mm/s)	2000												
	Speed setting												

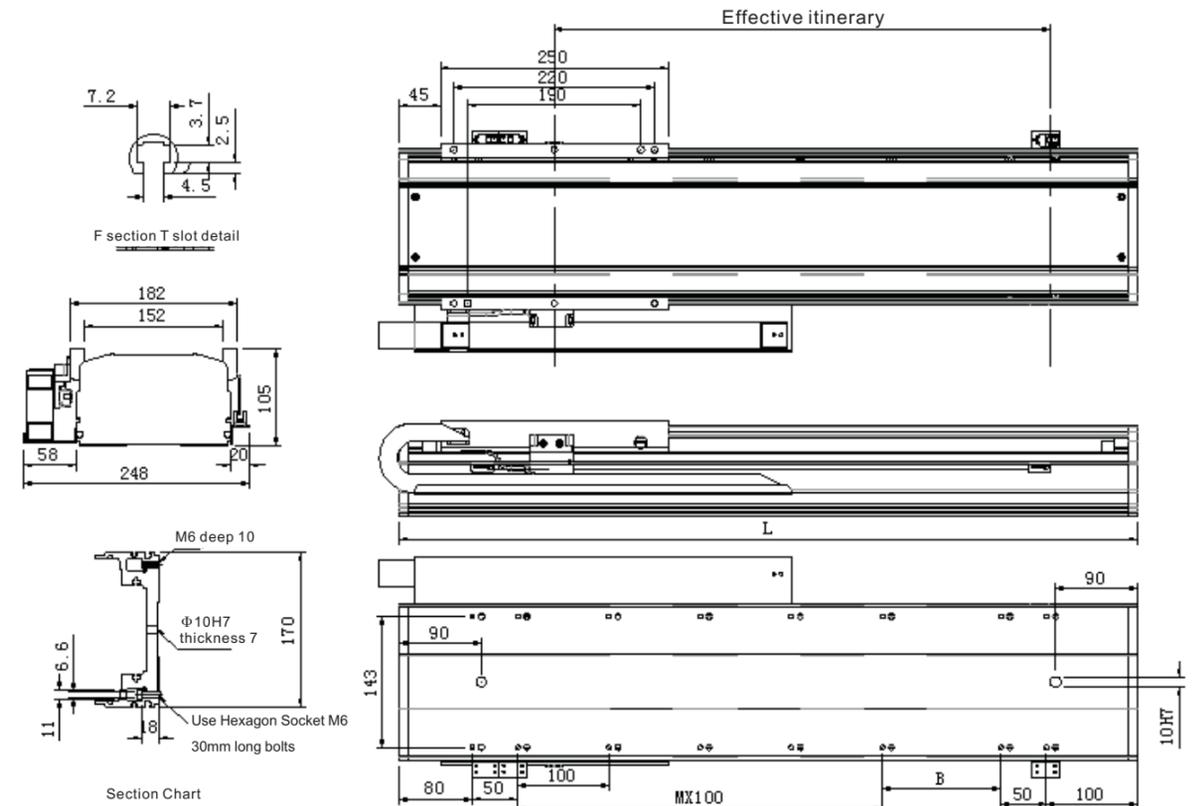


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170U-M3-N59-600 Linear module

Effective itinerary (mm)		100	200	300	400	500	600	700	800	900	1000	1100	1200
L (Full length mm)		390	490	590	790	890	990	1090	1190	1290	1390	1490	1590
B (Minimum distance)		30	130	30	130	30	130	30	130	30	130	30	130
M (Hole quantity)		3	3	4	4	5	5	6	6	7	7	8	8
Maximum speed (mm/s)	2000												
	Speed setting												

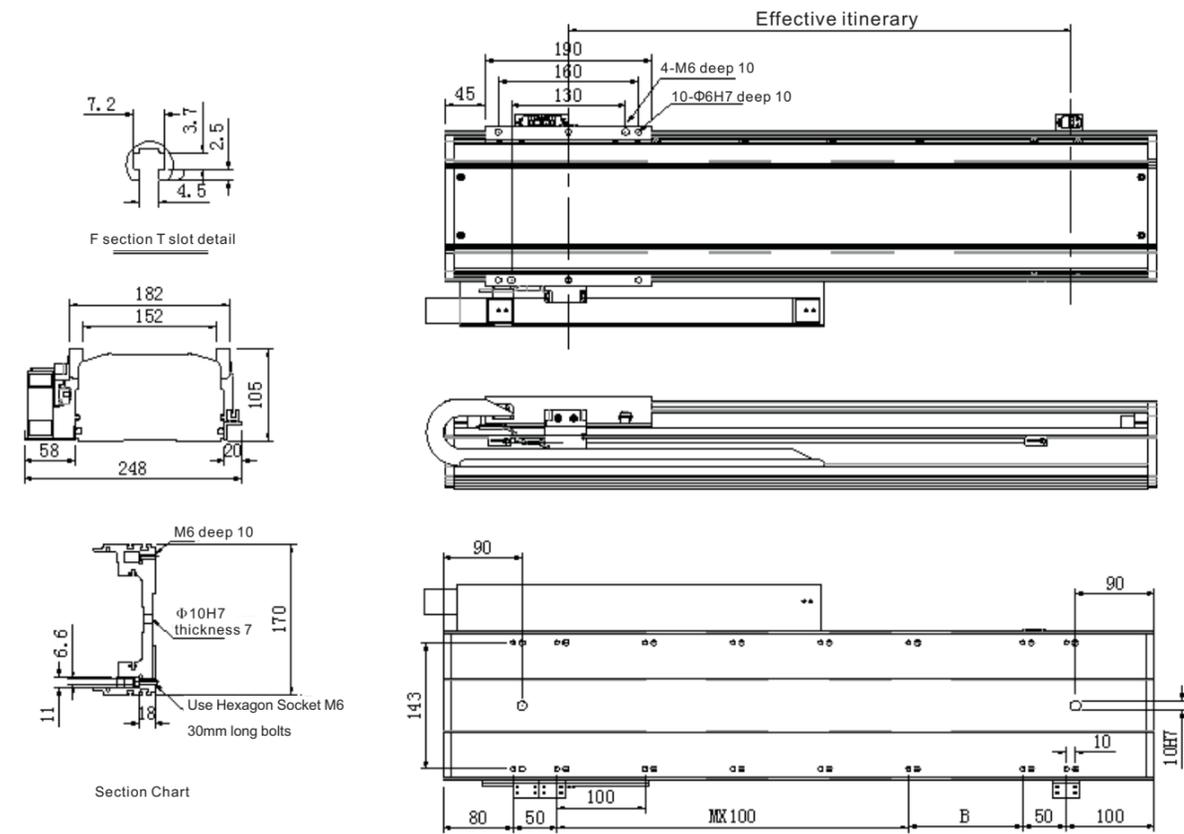


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170U-M3-N89-600 Linear module

Effective itinerary (mm)	155	275	395	415	535	655	775	895	915	1035	1155
L (Full length mm)	490	590	790	890	810	1090	1190	1290	1390	1490	1590
B (Minimum distance)	50	170	90	210	130	50	170	90	110	40	160
M (Hole quantity)	2	2	3	3	4	5	5	6	6	7	7
Maximum speed (mm/s)	2000										
	Speed setting										

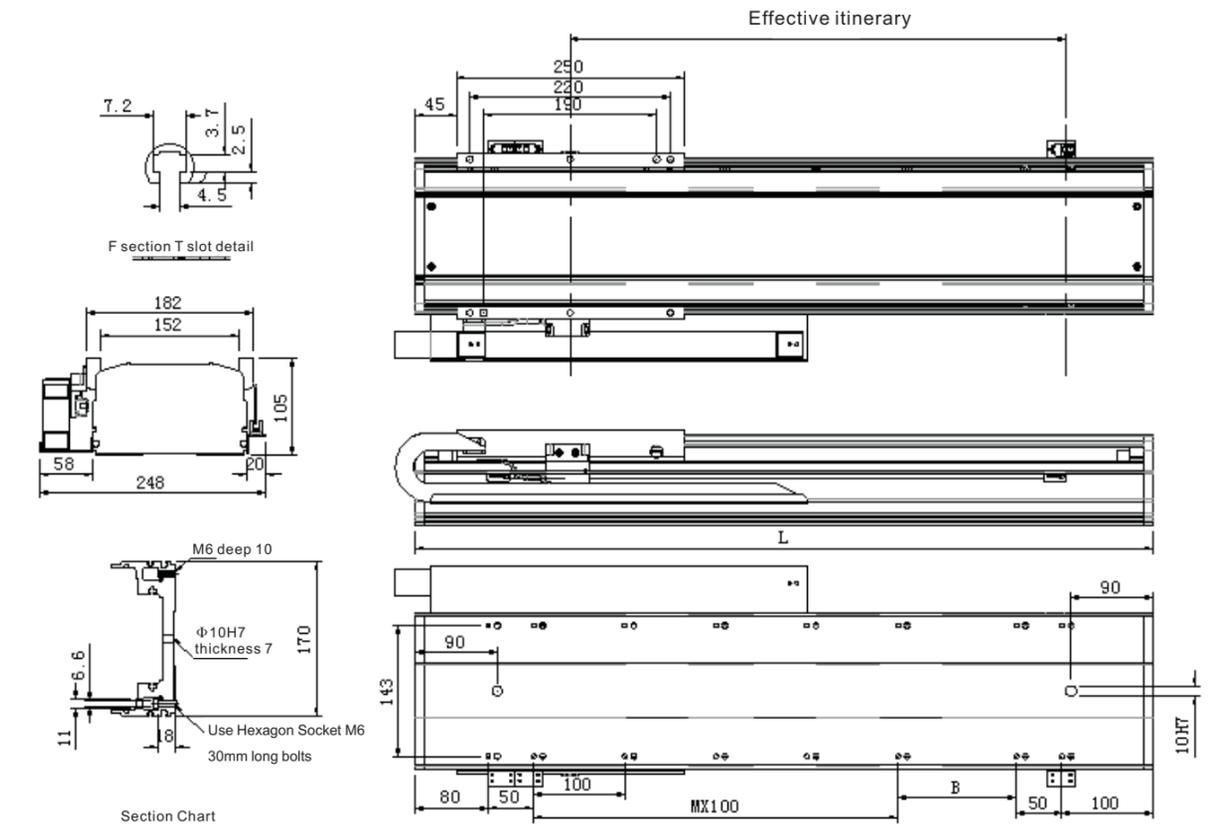


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170U-M3-N118-600 Linear module

Effective itinerary (mm)	115	235	355	475	615	735	855	975	1095	1215	1335
L (Full length mm)	590	790	890	810	930	1050	1170	1290	1410	1530	1650
B (Minimum distance)	50	170	90	210	130	50	170	90	110	40	160
M (Hole quantity)	2	3	3	4	5	5	6	6	7	8	8
Maximum speed (mm/s)	2000										
	Speed setting										

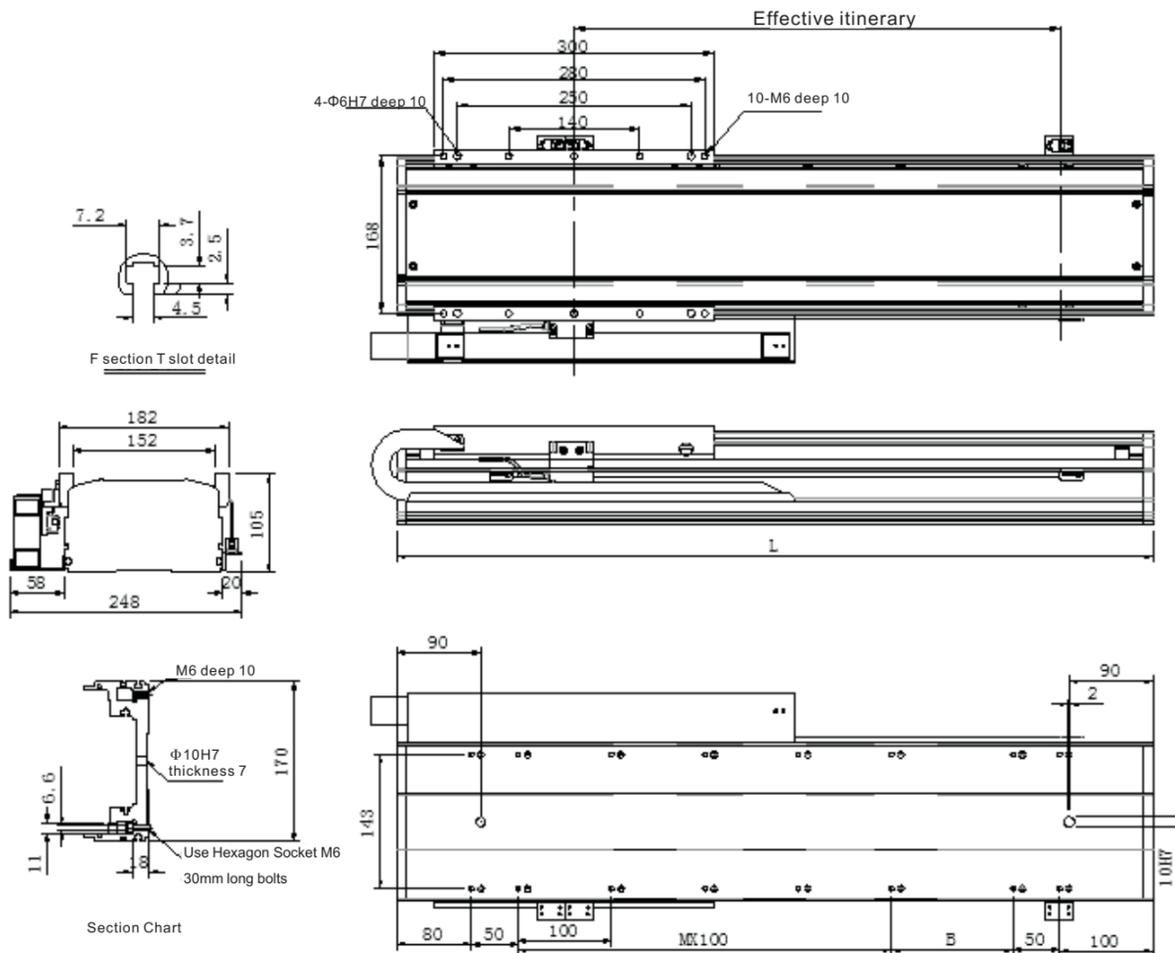


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM170U-M3-N148-600 Linear module

Effective itinerary (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200
L (Full length mm)	310	410	510	610	710	810	910	1010	1110	1210	1310	1410
B (Minimum distance)	0	100	200	100	200	100	200	100	200	100	200	100
M (Hole quantity)	0	0	0	1	1	2	2	3	3	4	4	5
Maximum speed (mm/s)	2000											
	Speed setting											

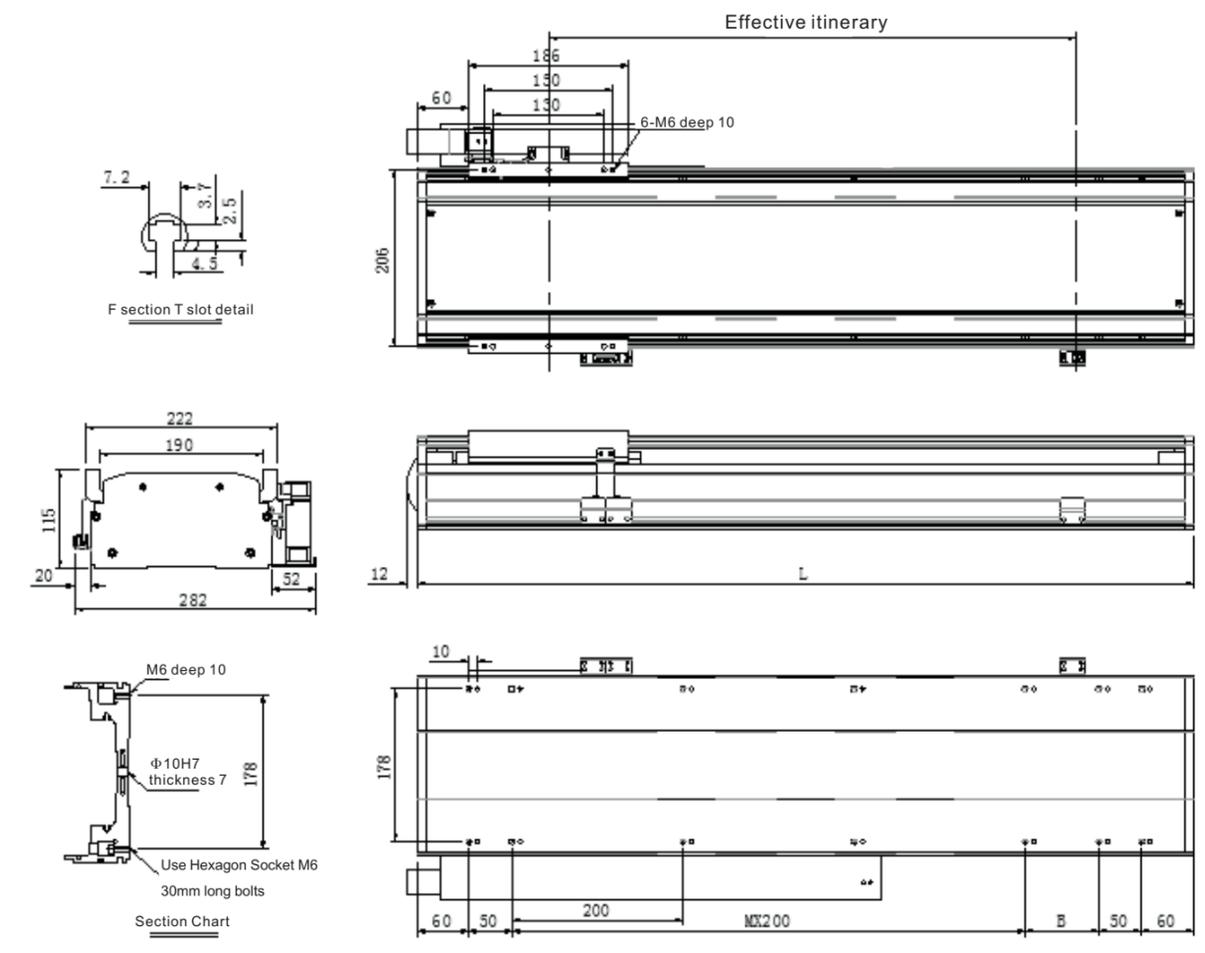


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM210F-100-N161-600 Linear module

Effective itinerary (mm)	96	144	192	240	288	336	384	432	480	528	576	624	672	720	768	816	864	912	960	1008	
L (Full length mm)	397	445	493	541	589	637	685	733	781	829	877	925	973	1021	1069	1117	1165	1213	1261	1309	
B (Minimum distance)	177	25	73	121	169	17	65	113	161	209	57	105	153	201	49	97	145	193	41	89	
M (Hole quantity)	0	1	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	
Maximum speed (mm/s)	2000																				
	Speed setting																				

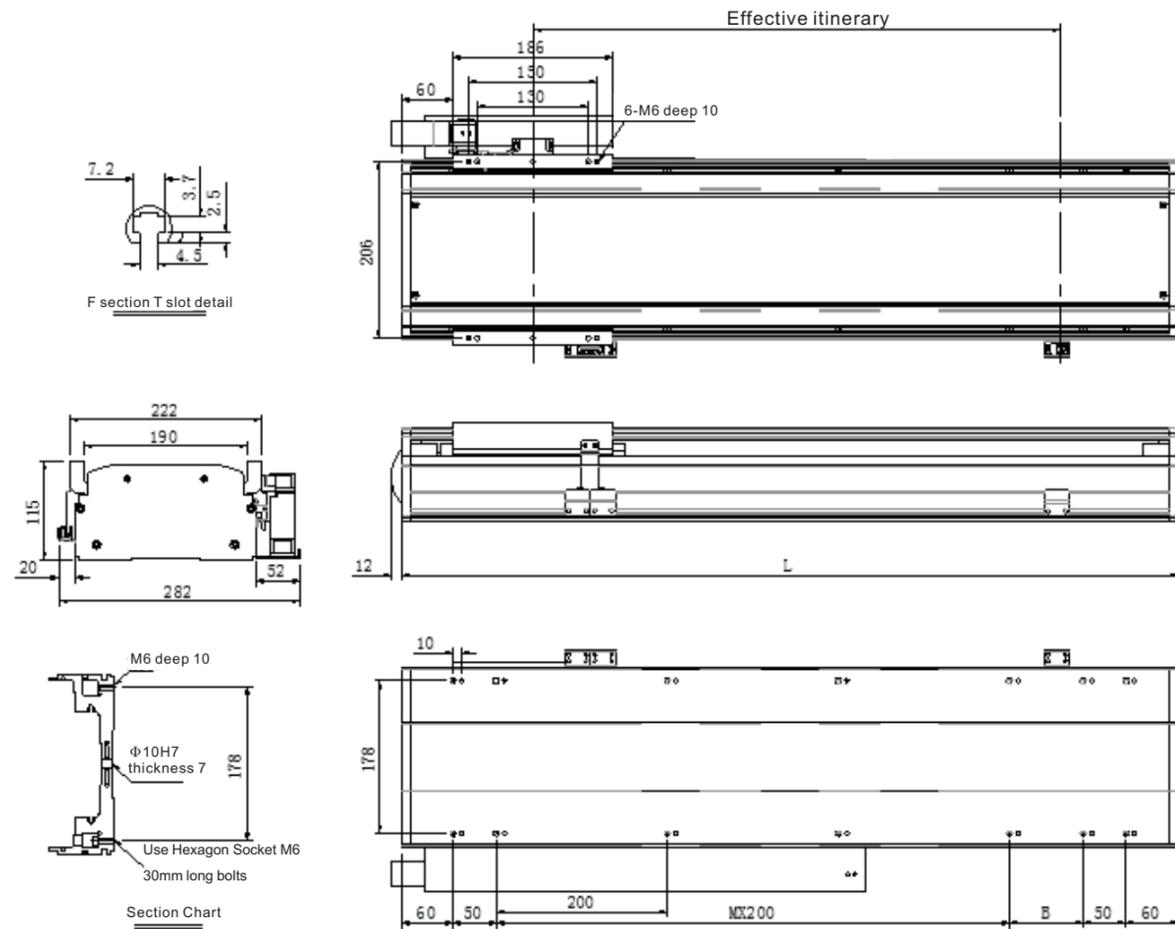


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM210F-100-N302-600 Linear module

Effective itinerary (mm)	96	144	192	240	288	336	384	432	480	528	576	624	672	720	768	816	864	912	960	1008
L (Full length mm)	397	445	493	541	589	637	685	733	781	829	877	925	973	1021	1069	1117	1165	1213	1261	1309
B (Minimum distance)	177	25	73	121	169	17	65	113	161	209	57	105	153	201	49	97	145	193	41	89
M (Hole quantity)	0	1	1	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5
Maximum speed (mm/s)	2000																			
	Speed setting																			

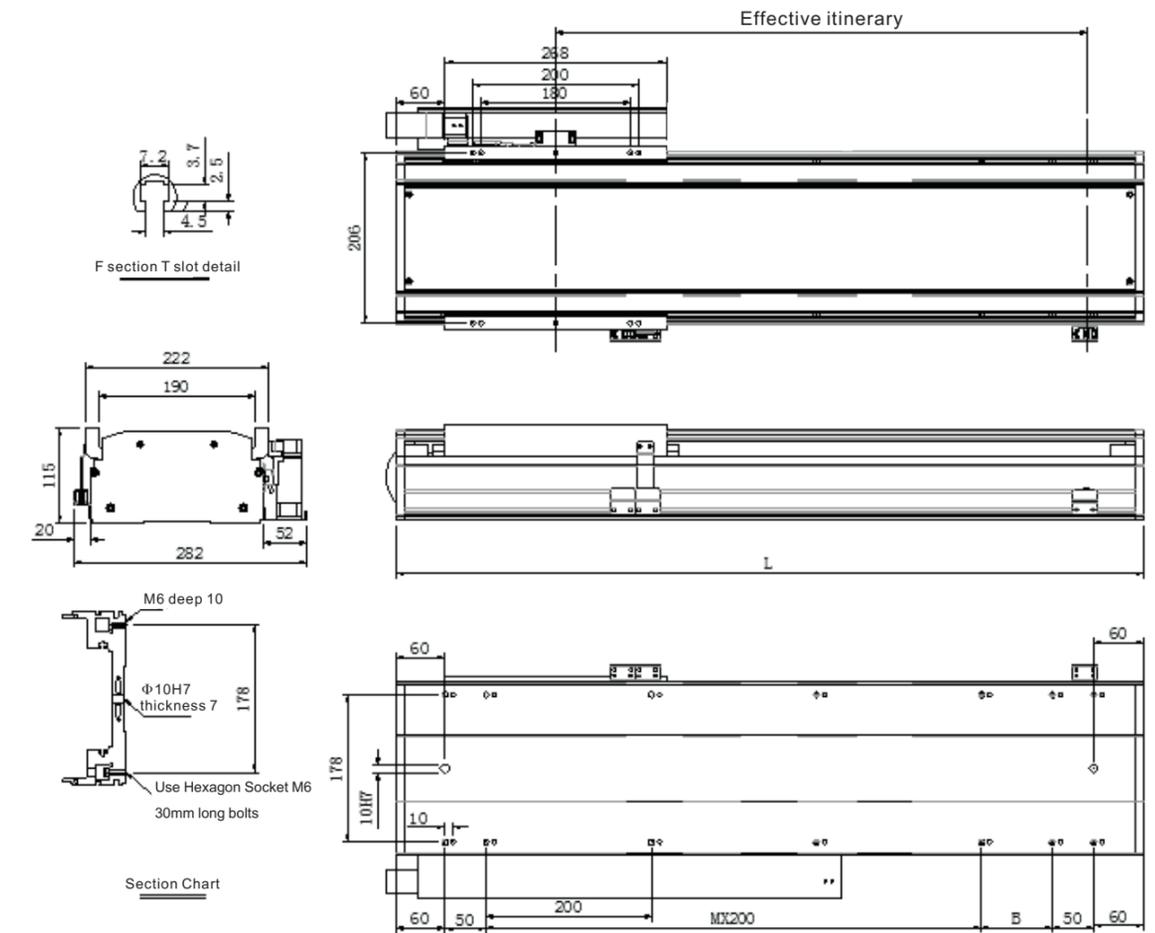


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM210F-100-N435-600 Linear module

Effective itinerary (mm)	96	144	192	240	288	336	384	432	480	528	576	624	672	720	768	816	864	912	960	
L (Full length mm)	479	527	606	623	671	719	767	815	863	911	959	1007	1055	1103	1151	1199	1247	1295	1343	
B (Minimum distance)	59	107	155	203	51	99	147	195	43	91	139	187	35	83	131	179	27	75	123	
M (Hole quantity)	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	
Maximum speed (mm/s)	2000																			
	Speed setting																			

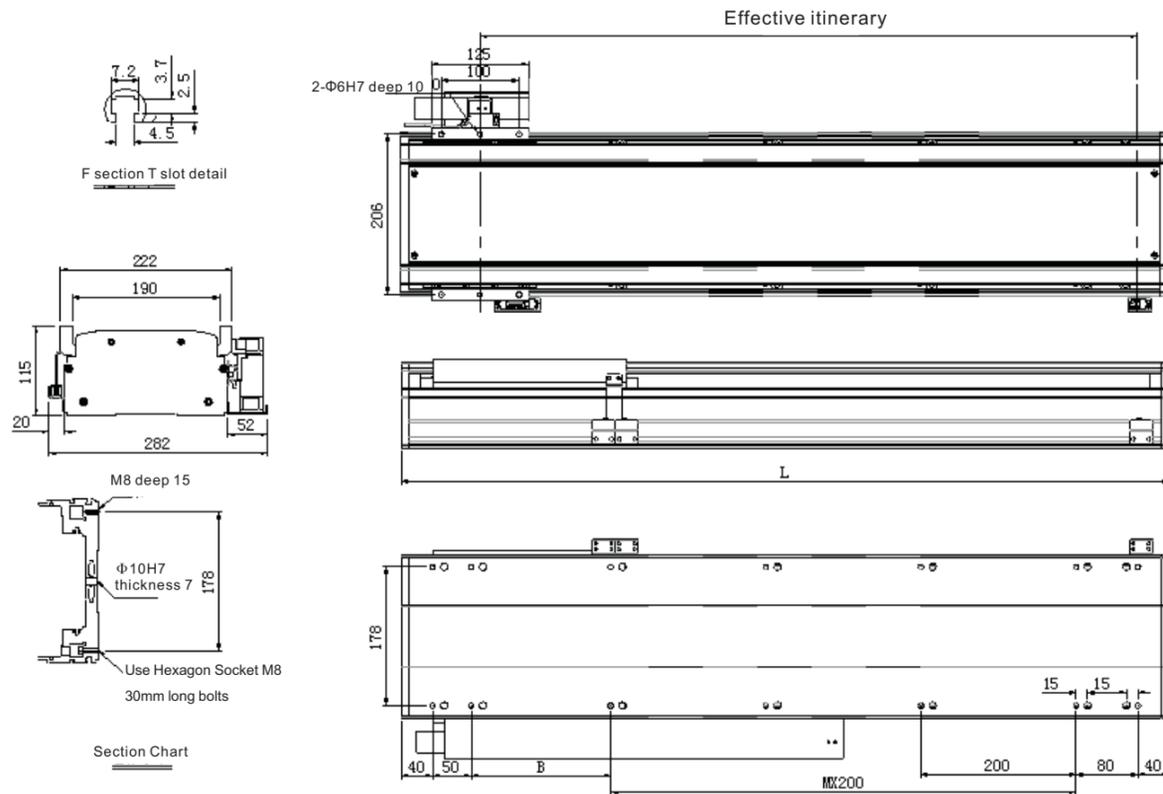


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM210U-M4-N102-600 Linear module

Effective itinerary (mm)	120	240	360	480	600	720	840	960	1080	1200	1320	1440
L (Full length mm)	330	450	570	690	810	930	1050	1170	1290	1410	1530	1650
B (Minimum distance)	120	240	160	80	200	120	240	160	80	200	120	240
M (Hole quantity)	0	0	1	2	2	3	3	4	5	5	6	6
Maximum speed (mm/s)	2000											
	Speed setting											

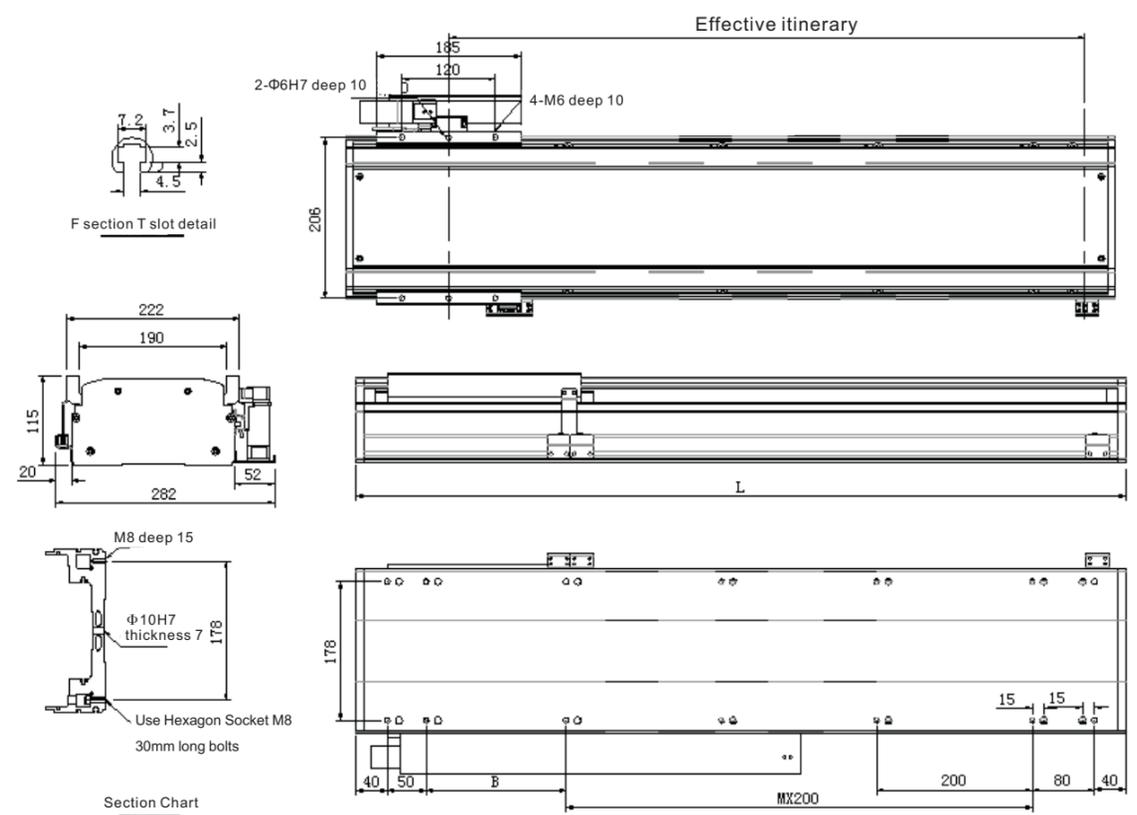


Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM210U-M4-N153-600 Linear module

Effective itinerary (mm)	115	235	355	475	595	715	835	955	1075	1195	1315	1435
L (Full length mm)	390	510	630	750	870	990	1110	1230	1350	1470	1590	1710
B (Minimum distance)	180	100	220	140	60	180	100	220	140	60	180	100
M (Hole quantity)	0	1	1	2	3	3	4	4	5	6	6	7
Maximum speed (mm/s)	2000											
	Speed setting											



Note:

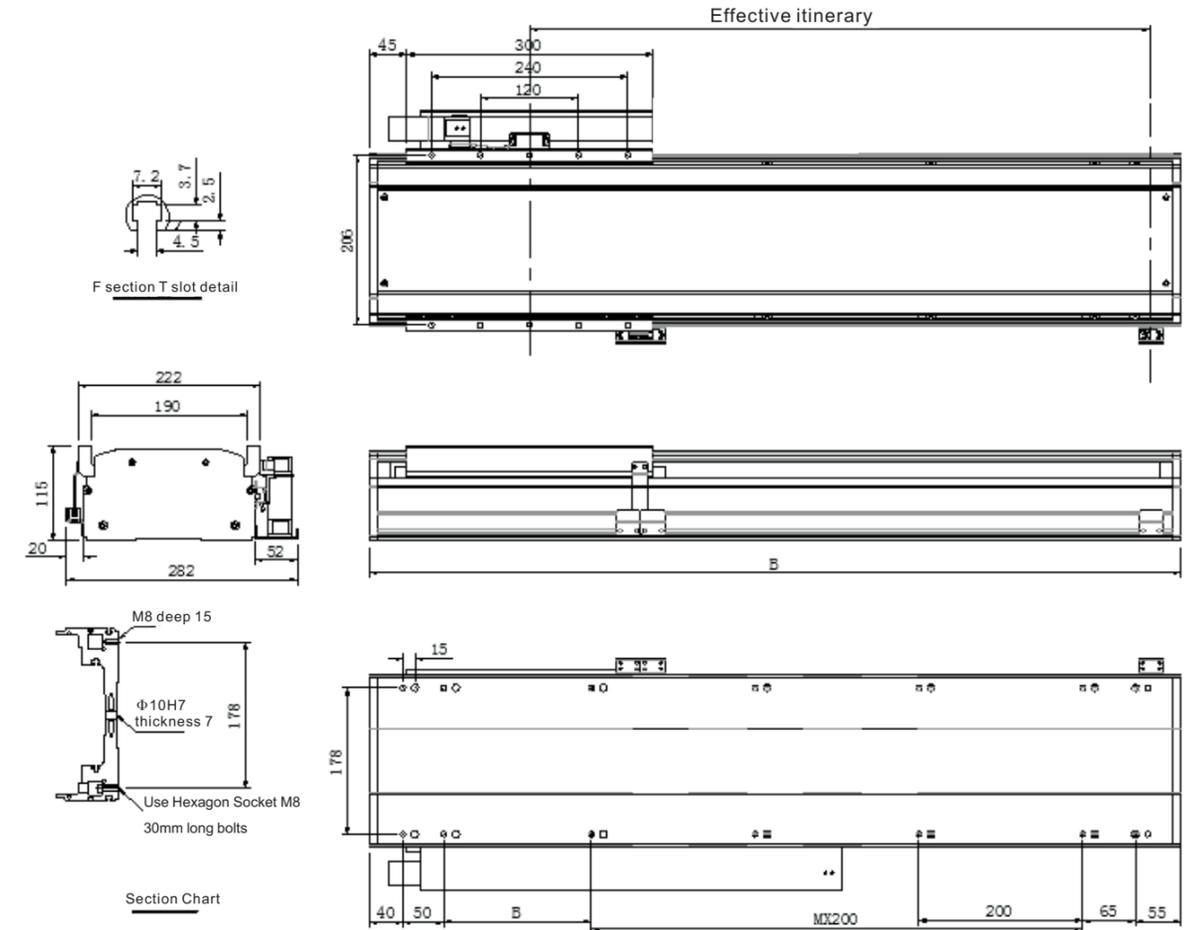
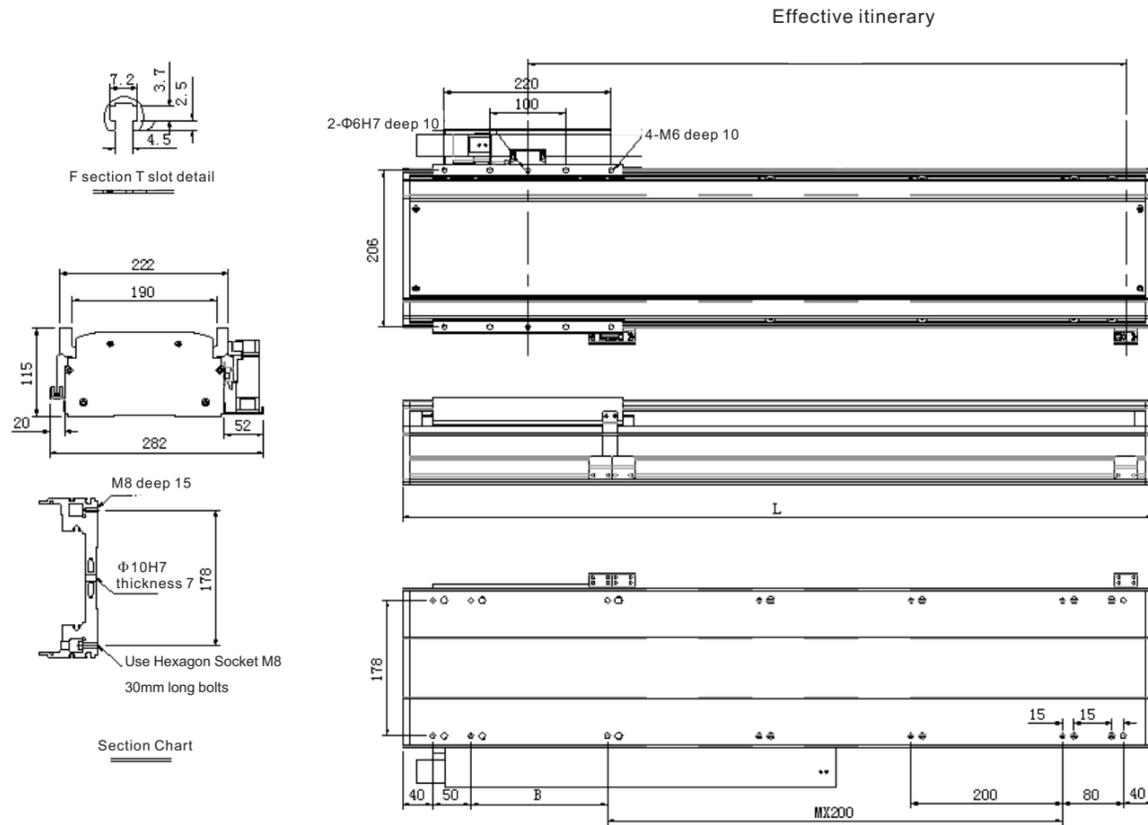
1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

LM210U-M4-N205-600 Linear module

Effective itinerary (mm)	50	170	290	410	530	650	770	890	910	1030	1150	1270
L (Full length mm)	390	410	530	650	770	890	910	1030	1150	1270	1390	1510
B (Minimum distance)	180	100	220	140	60	180	100	220	160	80	200	120
M (Hole quantity)	0	1	1	2	3	3	4	4	5	5	5	6
Maximum speed (mm/s)	2000											
	Speed setting											

LM210-M4-N256-600 Linear module

Effective itinerary (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200
L (Full length mm)	490	590	690	790	890	990	1090	1190	1290	1390	1490	1590
B (Minimum distance)	80	180	80	180	80	180	80	180	80	180	80	180
M (Hole quantity)	0	0	1	1	2	2	3	3	4	4	5	5
Maximum speed (mm/s)	2000											
	Speed setting											



Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

Note:

1. The movement range at the time of home return is the stop position from both ends to the limiter
2. Do not use gaskets inside the main unit during installation
3. Motor cable bending radius of R50.
4. host installation process, the use of 10 positioning rod hole, it should be careful not to make the needle into the host more than 6mm.

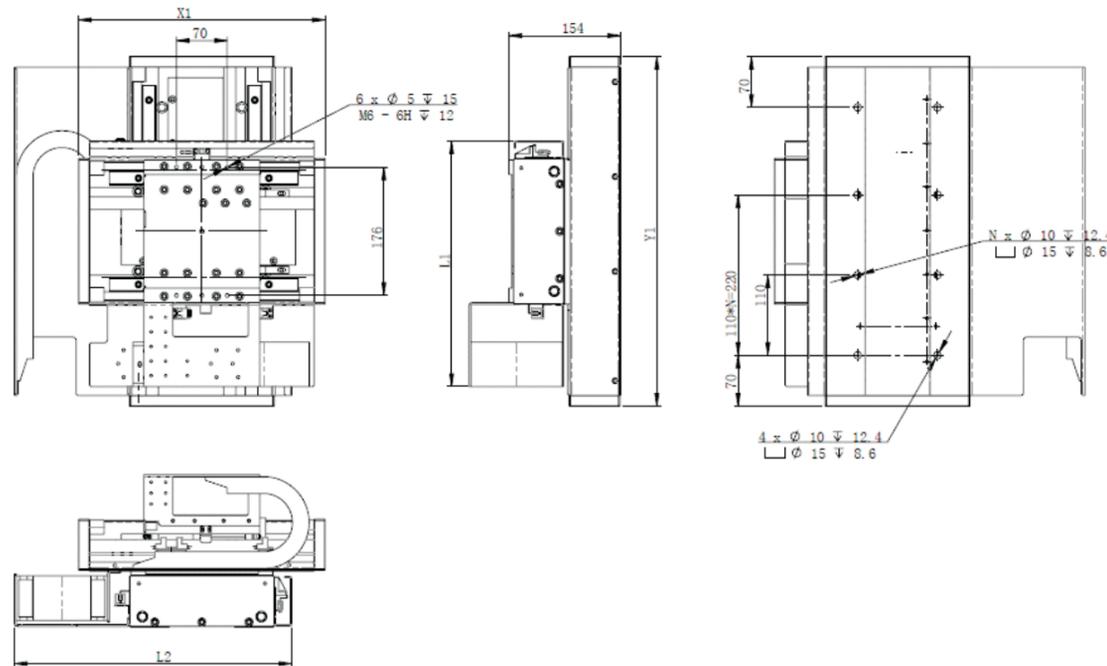
LM200-XXX-YYY Non - core type XY linear motor platform specification table

Product Code	Motor Type	Fe(Note1) N	Fm(Note1) N	Verticality (arc-sec)	Repeat accuracy (mm)
XXX=E ffective stroke of the X axis	X axis: U type	102	574	±5	±0.002
YYY=E ffective stroke of the Y axis	Y axis: U type	153	863	±5	±0.002

Note 1: Fe=Constant thrust Fm= Instant thrust;
 Note 2: The number of holes in the bottom mounting dimensions;

LM200-XXX-YYY No core type linear motor XY platform size table

Effective stroke [N]						
X axis	Y axis	X1	Y1	L1	L2	N [Note 2]
100	200	340	480	337	382.5	2
200	300	440	580	337	382.5	3
300	400	540	680	337	382.5	4



Grating ruler selection table



The accuracy of the table is the manufacturing accuracy of the strip scale

	Measuring length	precision	signal	Maximum Resolution	Model
70 - 16 020 mm		± 5 μm/m (*)	~ 1 Vpp	0.1 μm	TA + L2RP / L2SP
			□ TTL	5 μm	TA + L2RTD / L2STD
			□ TTL	1 μm	TA + L2RX / L2SX
			□ TTL	0.5 μm	TA + L2RY / L2SY
			□ TTL	0.1 μm	TA + L2RW / L2SW
240 - 6 040 mm		± 5 μm/m (*)	~ 1 Vpp	0.1 μm	PG + TG + L2RP / L2SP
			□ TTL	5 μm	PG + TG + L2RTD / L2STD
			□ TTL	1 μm	PG + TG + L2RX / L2SX
			□ TTL	0.5 μm	PG + TG + L2RY / L2SY
			□ TTL	0.1 μm	PG + TG + L2RW / L2SW
140 - 30 040 mm		± 5 μm/m (*)	~ 1 Vpp	0.1 μm	PT + TT + L2RP / L2SP
			□ TTL	5 μm	PT + TT + L2RTD / L2STD
			□ TTL	1 μm	PT + TT + L2RX / L2SX
			□ TTL	0.5 μm	PT + TT + L2RY / L2SY
			□ TTL	0.1 μm	PT + TT + L2RW / L2SW