



LINEAR PRECISION LINEAR SPEED



Overview

- Comprehensive Range Of Mounting Accessories For Multi-Axis
- Optimally Adapted To Motor Controller's Multilateration
- Multilateration
- Wide Range Of Options For Attached Driving Units
- Highly Adaptable, Thanks To Wide Choice Of Mounting And Attachment Options
- High Precision,Strong Rigidity

GSC Series Guide rail embedded slide module

- Part No:GSC 40 / 50 / 50S / 80 / 80S / 120/ 120S
- High Rigidity
- Reduce dust
- Compact Design



P1-P23

GTC Series Module

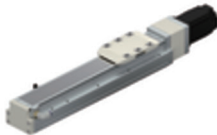
- Part No:GTC 50 / 80
- High Rigidity
- Reduce dust
- Compact Design



P25-P31

GCC Series Module

- Part No:GCC 40 /50 / 80 / 120
- High Rigidity
- Reduce dust
- Compact Design



P33-P45

KS Series Module

- Part No:KS 40 / 50 / 60 / 86 / 100
- High Rigidity
- Modular Design
- Equal Load in Four Directions



P47-P61

European standard semi-dense synchronous belt drive type

- Part No.: ITO 40 / 60 / 60L / 80 / 80L / 100 / 100L / 160 / 140 / 140L
- With Linear Guide
- High Characteristic Load Values
- Open Type Driven By Belt



P63-P71

European standard semi-dense synchronous belt drive side rail reinforced type

- Part No.: HTO-60 / 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Open Type Driven By Belt



P73-P78

European standard fully dense synchronous belt drive type

- Part No.: ITC - 60 / 60L / 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Clean Room Type Driven By Belt



P79-P83

European standard Z-axis lifting special type

- Part No.:ITZ-60
- Motor Fixed, not increase mobile terminal load
- Good dynamic performance
- Standard Rail



P85-P87

European standard Z-axis lifting special type

- Part No.:HTZ 60 / 80
- Motor Fixed, not increase mobile terminal load
- Good dynamic performance
- Standard Rail



P88-P91

Sub-standard semi-tight screw drive type

- Part No.:
YSO - 135 / 135G / 170 / 220 / 270
- High Characteristic Load Values
- High Precision
- Open Type Driven By Ball Screw



P93-P107

Sub-standard full-tight screw drive type

- Part No.:YTO-135/170/220
- High Speed
- High Acceleration
- Open Type Driven By Belt



P109-P121

Sub-standard semi-dense synchronous belt drive type

- Part No.:YTC-135 / 170 / 220
- High Speed
- High Acceleration
- Clean Room Type Driven By Belt



P123-P141

Sub-standard full-density synchronous belt drive type

- Part No.YRO-170/220 / 270
- High Characteristic Load Values
- High Precision
- Open Type



P143-P161

Semi-tight rack and pinion drive type

- Part No.: HTO-60 / 80 / 80L / 100 / 100L
- With Linear Guide
- High Characteristic Load Values
- Open Type Driven By Belt



P163-P169

Linear Motor Driven Type With Iron Core

- Part No.: LC50/75/100/125
 - High thrust
 - High response speed
-
- Part No.:GLC-50/80
 - Embedded guide rail
 - High cost effective
 - High Precision
 - Compact Design
 - Installation dimensions are the same as GSC
-
- Part No.:RLO-125/150/220
 - High thrust
 - High Precision
 - High cost performance
-
- Part No.:RLC-125/150/220
 - High thrust
 - High Precision
 - High cost performance
 - Fully sealed structure



Mutiaxis System

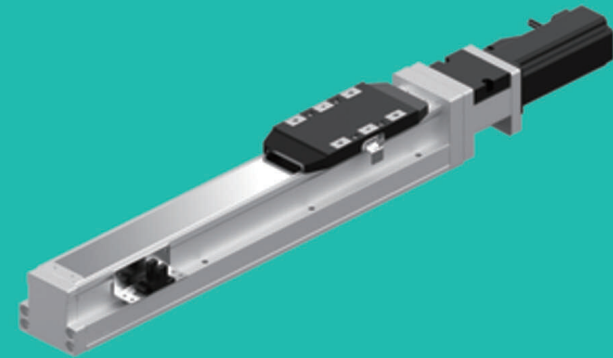
- Multi-axis System Installation
- Variety Choices Of Components
- Personalized Customization And Service
- Fast Delivery



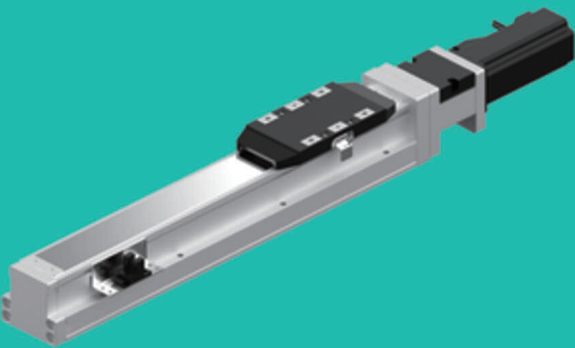
- Drive Calculations
- Deflection Calculations
- Glossary
- Auxiliary Block

- P213-P214
- P215-P216
- P217-P218
- P219

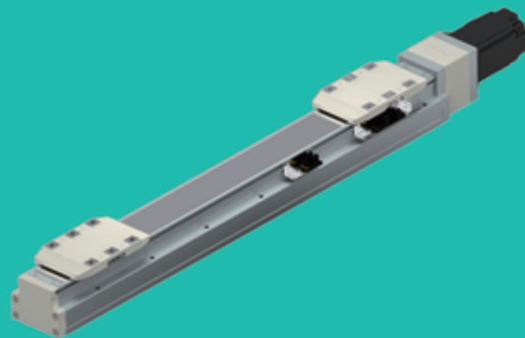
Guide rail embedded slide module



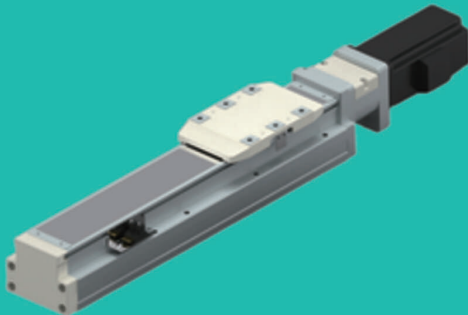
GSC 40



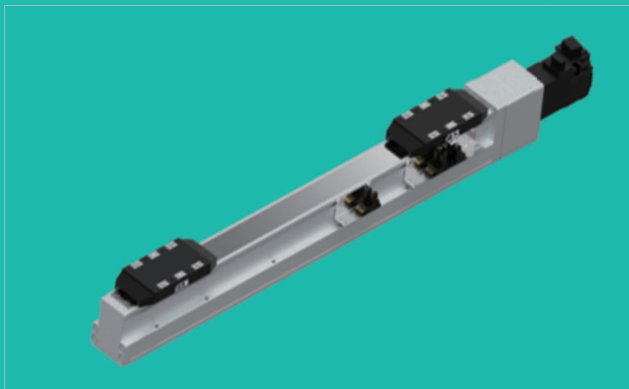
GSC 50



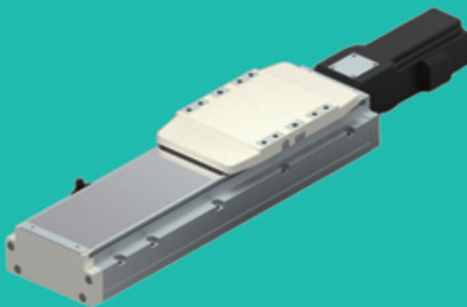
GSC 50S



GSC 80



GSC 80S



GSC 120

Code

GSC 40

Item NO.

—

L06

Ball Screw Lead

06

12

—

500

Stroke

50-800, Gap50

—

MS

Motor Mounting Direction

Straight Motor Mounting

Left Motor Mounting

Right Motor Mounting

Down Motor Mounting

—

M10

Motor Brand, Power Output

M Mitsubishi 10 100W

P Panasonic 10 100W

—

P3

Photoelectric Sensor

P1:1PC

P2:2PCS

P3:3PCS

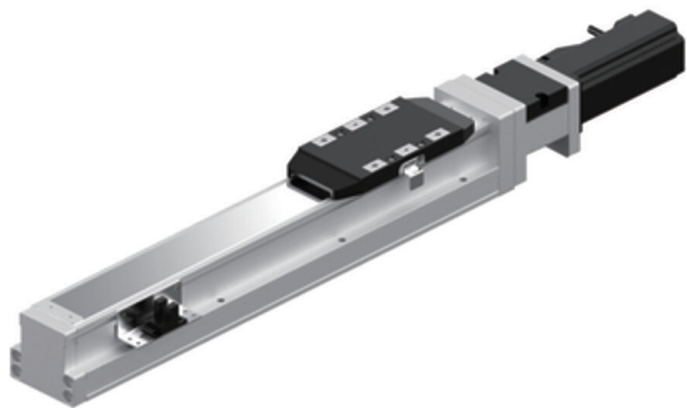
No Mark:No Sensor

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A001

Special Order No.

NoMark:NoSensor



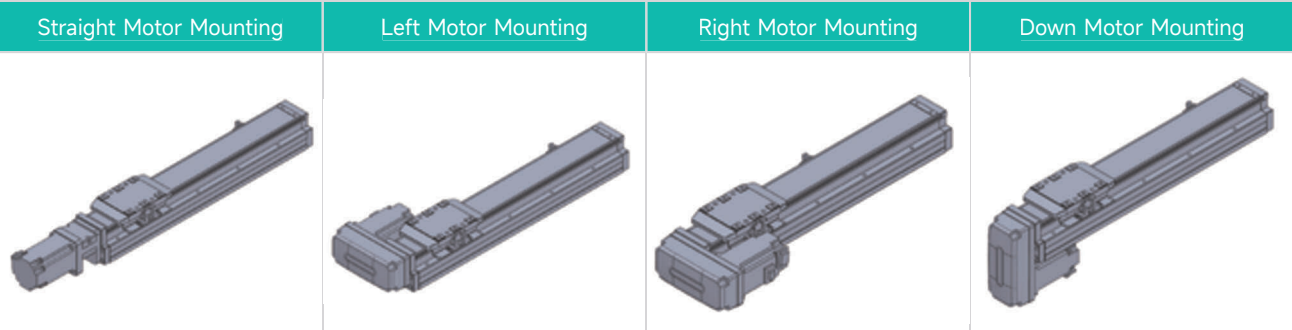
Max Static Forces And Torques

Type	GSC 40
M (x)(N.m)	116
M (y)(N.m)	79
M (z)(N.m)	79

All forces and torques relate to the following:

$$\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$$

Motor Mounting Position Version



Basic Specification

GSC 40			
Technical Parameters	Repetitive Accurary		±0.005
	Ball Screw Lead(mm)		06 12
	Maximum Speed(mm/s)		300 600
	Maximum Payload	Horizontal(kg)	20 12
		Vertical(kg)	8 3.5
Basic Specification	Rated Thrust(N)		141 71
	Stroke(mm)		50-800 mm / 50 Pitch
	AC Servo Motor Output(W)		100
	Ball Screw Diameter(mm)		C7 Ø10
	Coupling(mm)		7×8
	Home Sensor		PM-Y45(NPN)

Allowable Overhang

Unit: mm

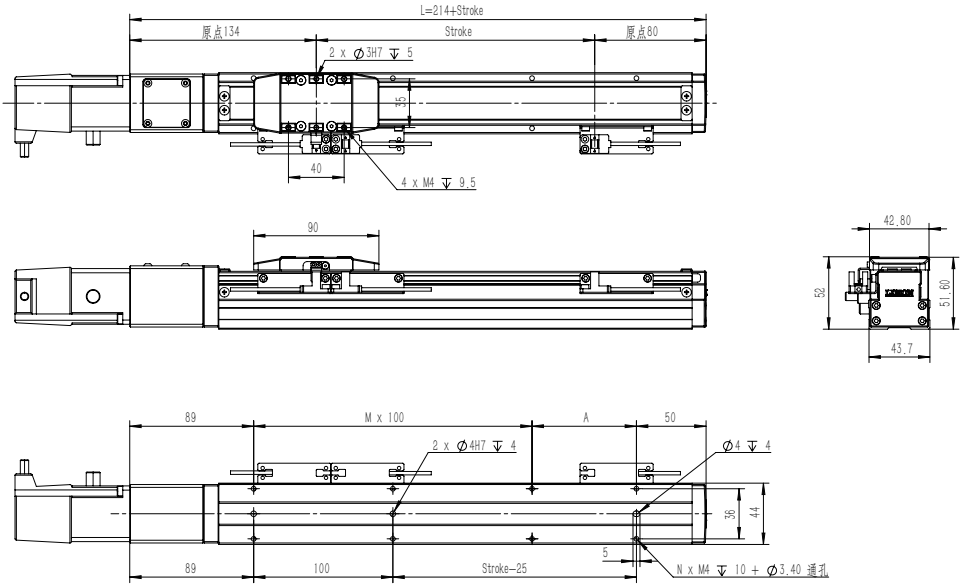
Horizontal Installation	A	B	C
06 lead	10kg	550	53
	15kg	350	32
	20kg	250	22
12 lead	8kg	305	59
	10kg	240	45
	12kg	195	37

Unit: mm

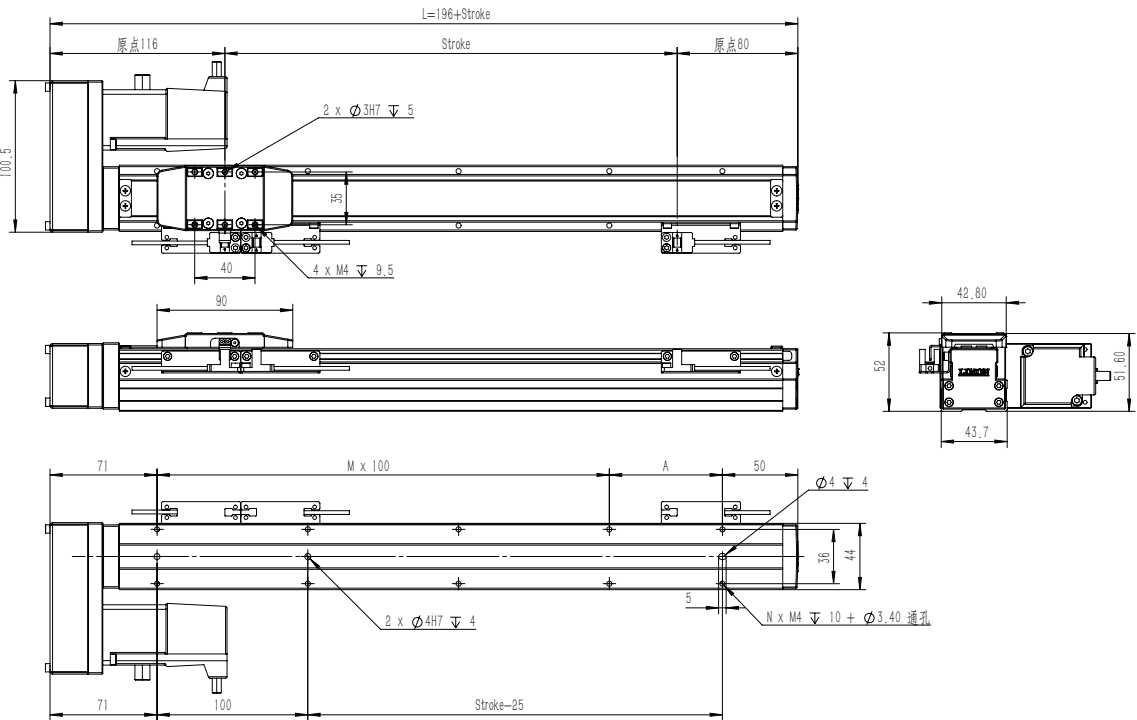
Wall Installation	A	B	C
06 lead	10kg	72	52
	15kg	45	32
	20kg	31	22
12 lead	8kg	75	59
	10kg	58	45
	12kg	47	37

Unit: mm

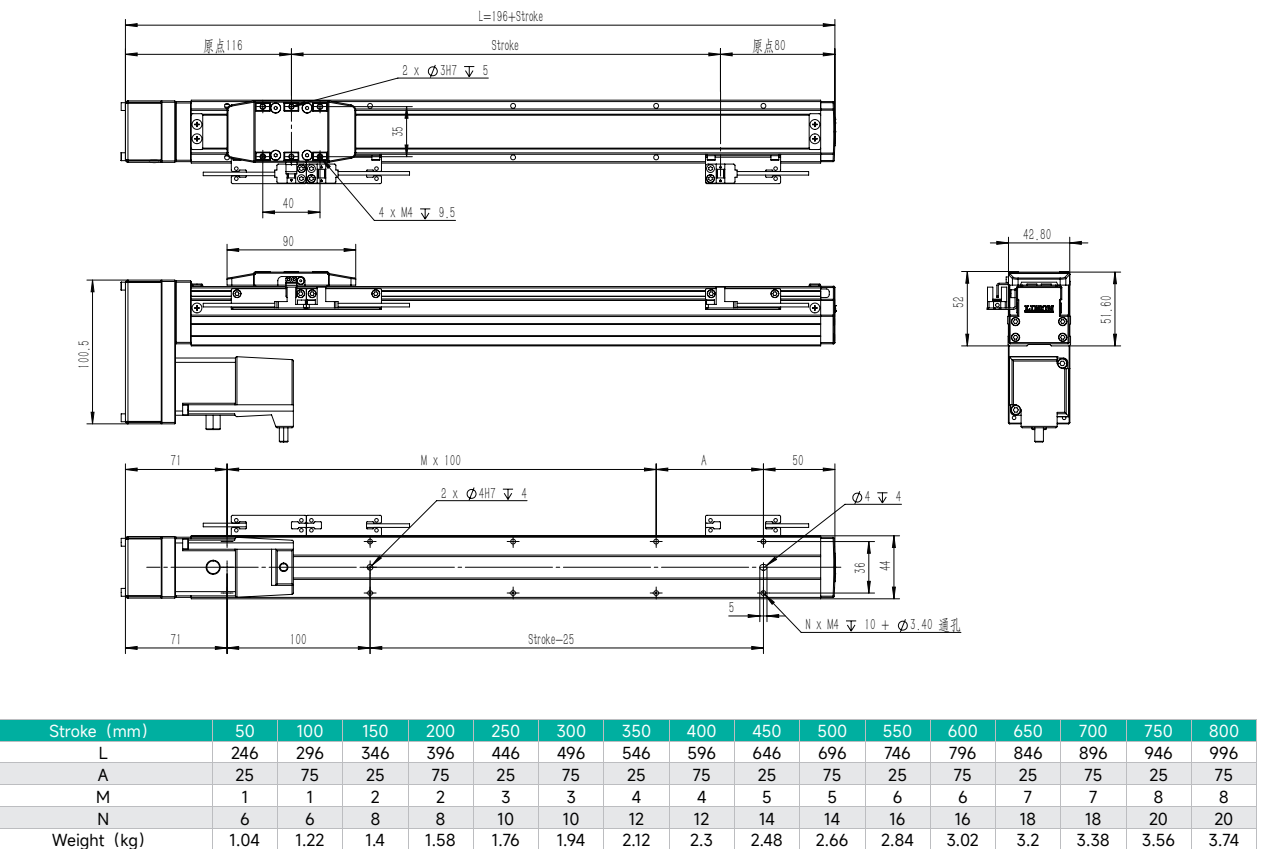
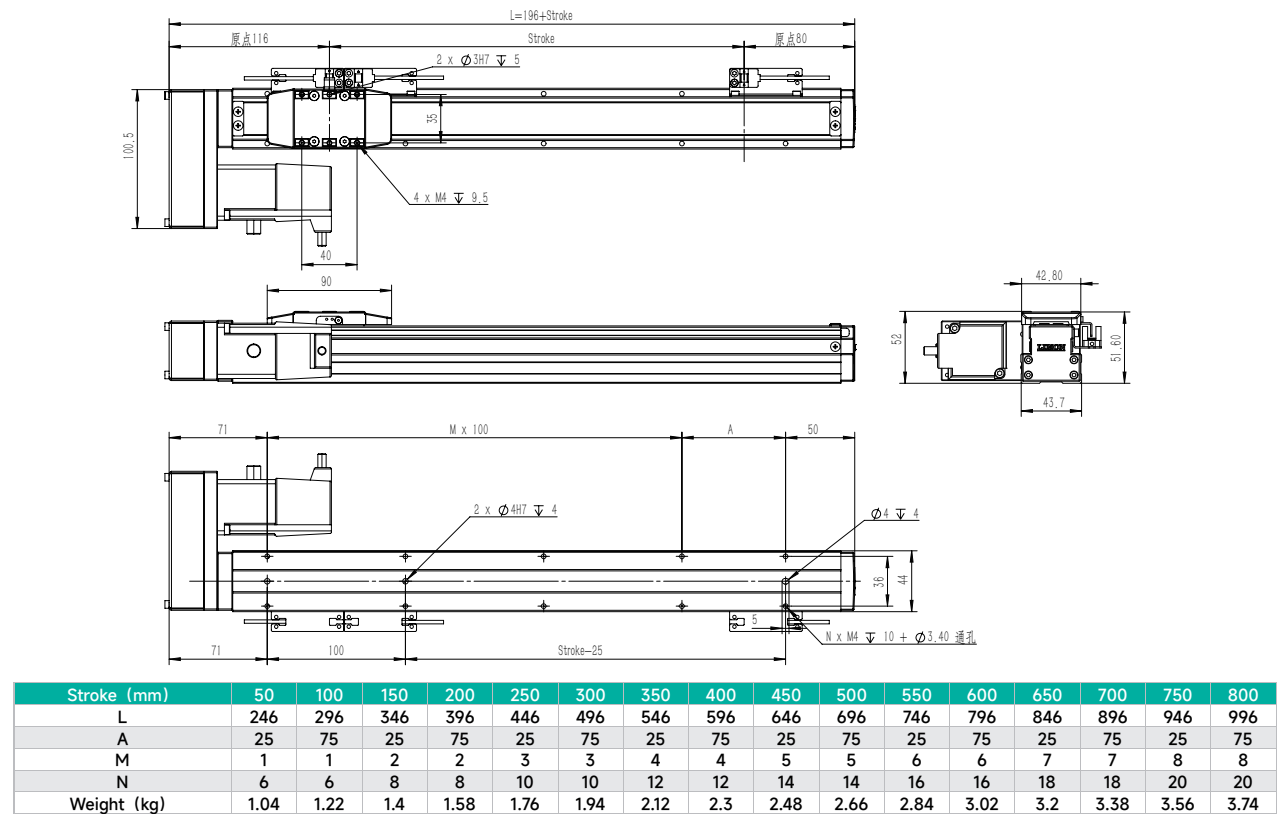
Vertical Installation	A	C
06 lead	4kg	150
	8kg	75
	-	-
12 lead	2kg	260
	3.5kg	150
	-	-



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight (kg)	0.95	1.12	1.29	1.47	1.65	1.83	2.01	2.19	2.37	2.55	2.73	2.91	3.09	3.27	3.45	3.63



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight (kg)	1.04	1.22	1.4	1.58	1.76	1.94	2.12	2.3	2.48	2.66	2.84	3.02	3.2	3.38	3.56	3.74



Code

GSC 50

Item NO.

L10

Ball Screw Lead

06

12

500

Stroke

50-800,

Gap50

MS

Motor Mounting Direction

Straight Motor Mounting

Left Motor Mounting

Right Motor Mounting

Down Motor Mounting

M10

Motor Brand、Power Output

M Mitsubishi 10 100W

P Panasonic 10 100W

P3

Photoelectric Sensor

P1:1PC

P2:2PCS

P3:3PCS

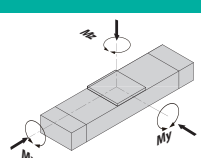
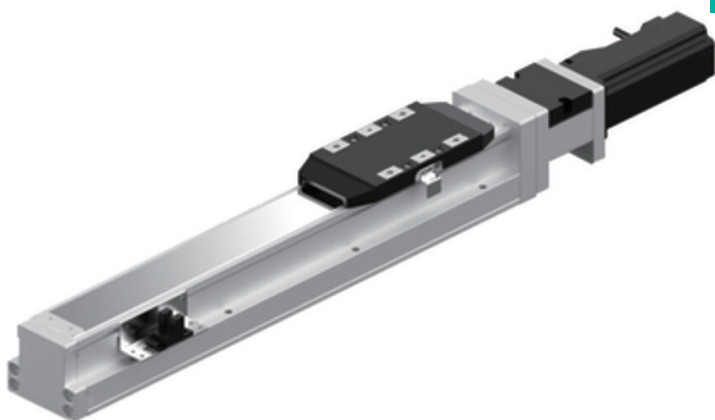
No Mark/No Sensor

A001

Special Order No.

No Mark/No Sensor

Max Static Forces And Torques

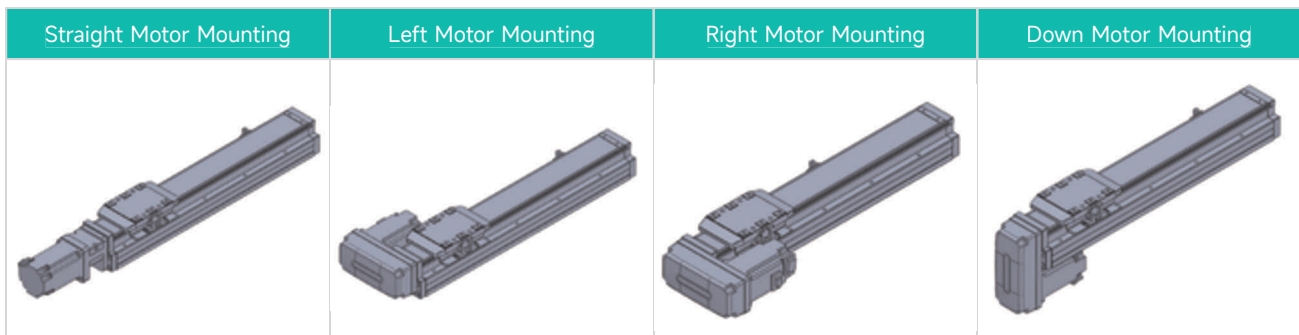


Type	GSC 50
M (x)(N.m)	104
M (y)(N.m)	103
M (z)(N.m)	103

All forces and torques relate to the following:

$$\frac{Mx}{Mx \max.} + \frac{My}{My \max.} + \frac{Mz}{Mz \max.} \leq 1$$

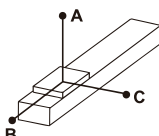
Motor Mounting Position Version



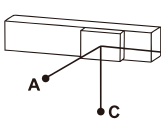
Basic Specification

GSC 50			
Technical Parameters	Repetitive Accuracy(mm)		±0.005
	Ball Screw Lead(mm)		5 10 20
	Maximum Speed(mm/s)		250 500 1000
	Maximum Payload	Horizontal(kg)	30 15 10
		Vertical(kg)	10 5 2.5
	Rated Thrust(N)		341 170 85
Basic Specification	Stroke(mm)		50-800 mm / 50 Pitch
	AC Servo Motor Output(W)		100
	Ball Screw Diameter(mm)		C7 Ø12
	Coupling (mm)		7×8
	Home Sensor		PM-Y45(NPN)

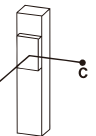
Allowable Overhang



Unit: mm



Unit: mm

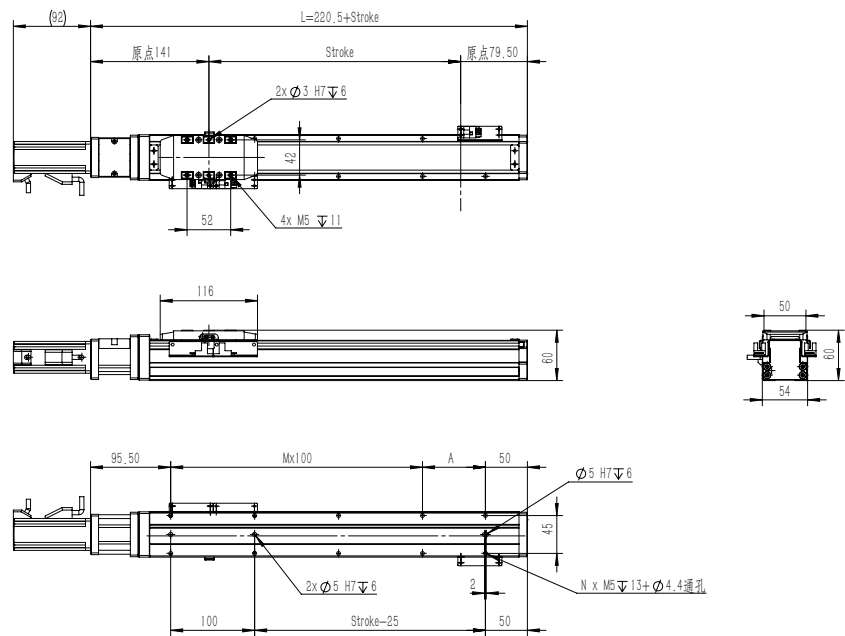


Unit: mm

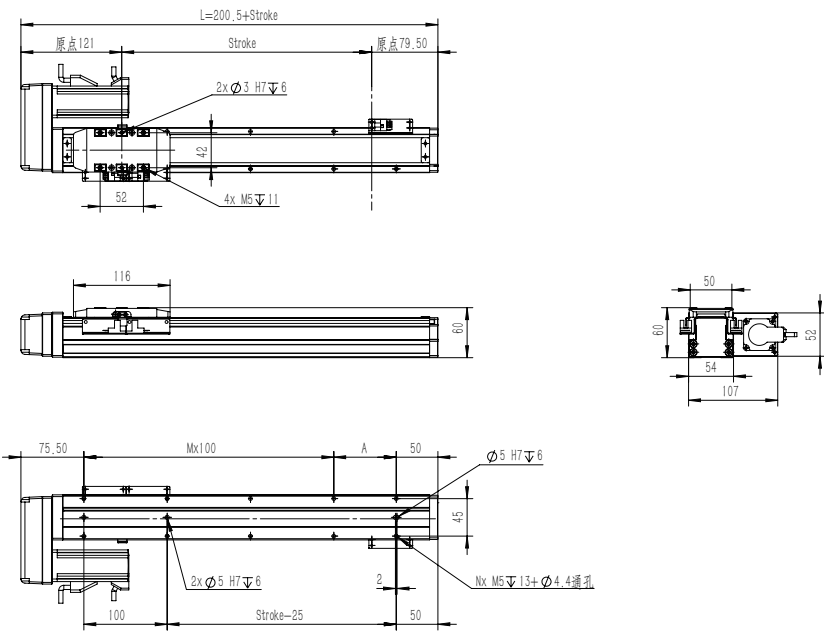
Horizontal Installation		A	B	C
5 lead	10kg	650	75	100
	20kg	440	32	45
	30kg	270	19	25
10 lead	5kg	600	145	185
	10kg	370	70	85
	15kg	250	42	52
20 lead	5kg	320	120	130
	8kg	220	70	80
	10kg	175	55	60

Wall Installation		A	B	C
5 lead	10kg	100	75	650
	20kg	45	32	420
	30kg	25	19	260
10 lead	5kg	180	145	600
	10kg	85	68	370
	15kg	52	42	250
20 lead	5kg	130	120	320
	8kg	75	70	220
	10kg	60	55	170

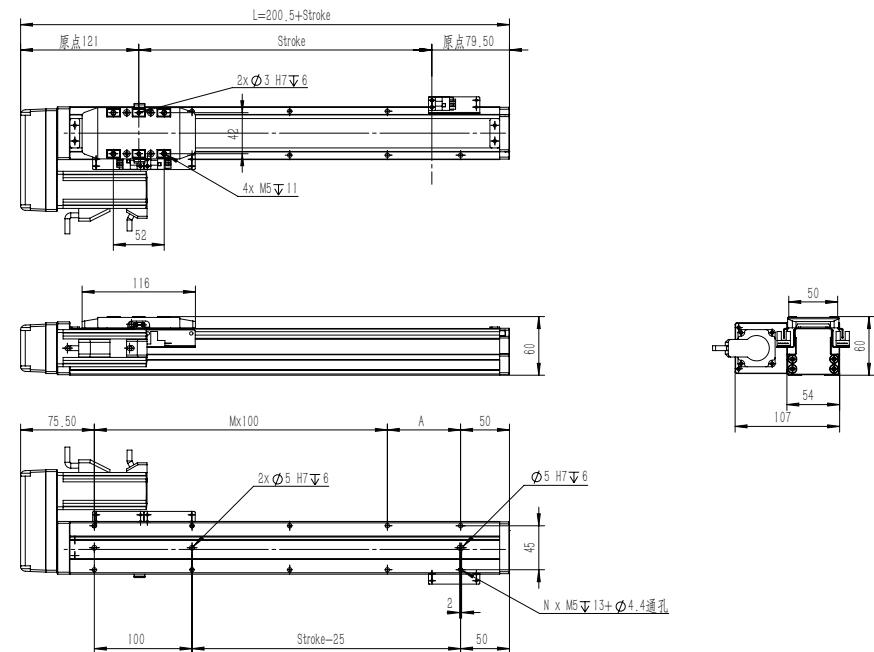
Vertical Installation		A	C
5 lead	6kg	145	145
	8kg	110	110
	10kg	90	90
10 lead	1kg	800	800
	3kg	260	260
	5kg	155	155
20 lead	1kg	600	600
	2kg	300	300
	2.5kg	250	250



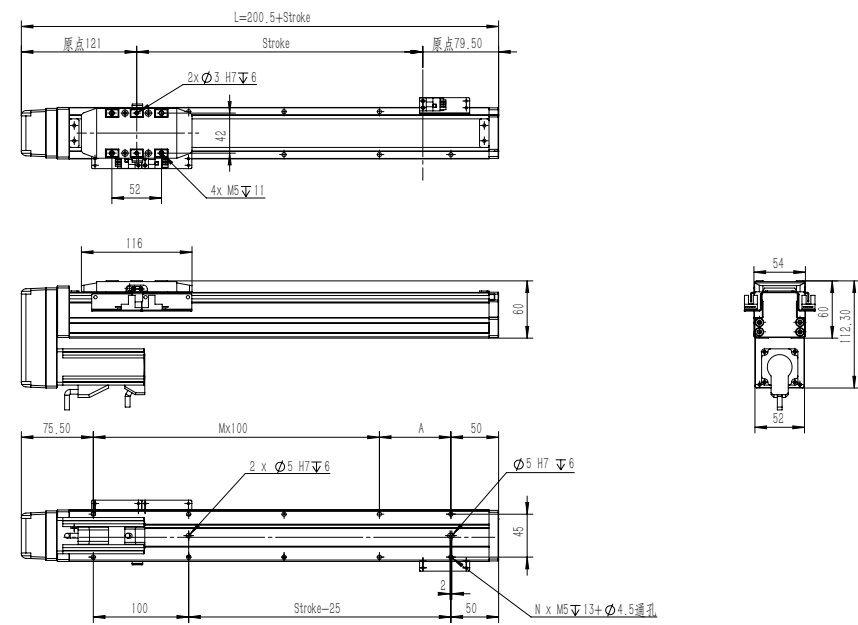
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight (kg)	0.97	1.16	1.36	1.56	1.75	1.95	2.15	2.34	2.54	2.74	2.93	3.13	3.33	3.52	3.72	3.92



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight (kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight (kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250.5	300.5	350.5	400.5	450.5	500.5	550.5	600.5	650.5	700.5	750.5	800.5	850.5	900.5	950.5	1000.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight (kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09

Code

GSC 50S

Item NO.

—

L05

Ball Screw Lead

05

—

275

Stroke

25-325, Gap25

—

MS

Motor Mounting Direction

Straight Motor Mounting
Left Motor Mounting
Right Motor Mounting
Down Motor Mounting

—

M10

Motor Brand, Power Output

M Mitsubishi 10 100W
P Panasonic 10 100W

—

P3

Photoelectric Sensor

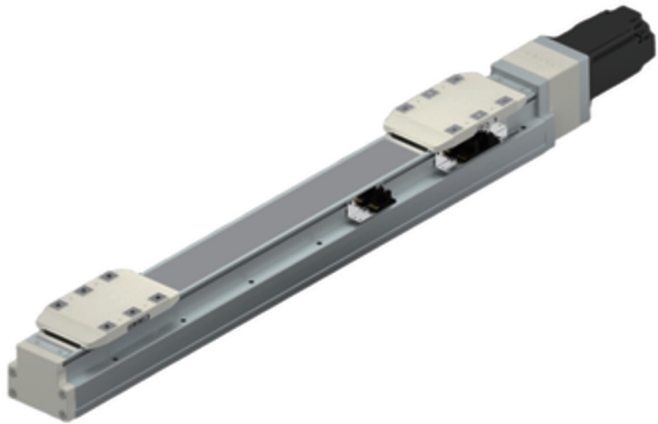
P1: 1个 1PC
P2: 2个 2PCS
P3: 3个 3PCS
No Mark:No Sensor

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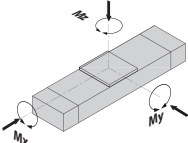
A001

Special Order No.

No Mark:No Sensor



Max Static Forces And Torques



Type	GSC 50S
M (x)(N.m)	144
M (y)(N.m)	103
M (z)(N.m)	103

All forces and torques relate to the following:

$$\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$$

Motor Mounting Position Version

Straight Motor Mounting

Left Motor Mounting

Right Motor Mounting

Down Motor Mounting

Basic Specification

GSC 50S		
Technical Parameters	Repetitive Accuracy(mm)	±0.005
	Ball Screw Lead(mm)	05
	Maximum Speed(mm/s)	250
	Maximum Payload	Horizontal(kg) 30 (Dual Carriage)
		Vertical(kg) 10 (Dual Carriage)
	Rated Thrust(N)	341
Basic Specification	Stroke(mm)	25-325 mm / 25 Pitch
	AC Servo Motor Output(W)	100
	Ball Screw Diameter(mm)	C7 Ø12
	Coupling(mm)	7×8
	Home Sensor	PM-Y45(NPN)

Allowable Overhang

Unit: mm

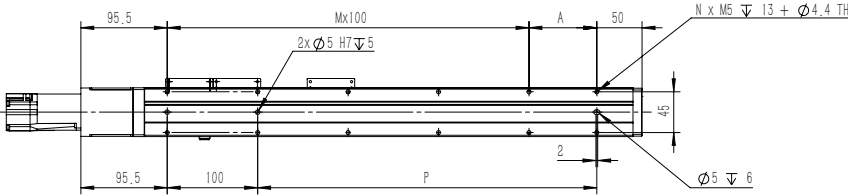
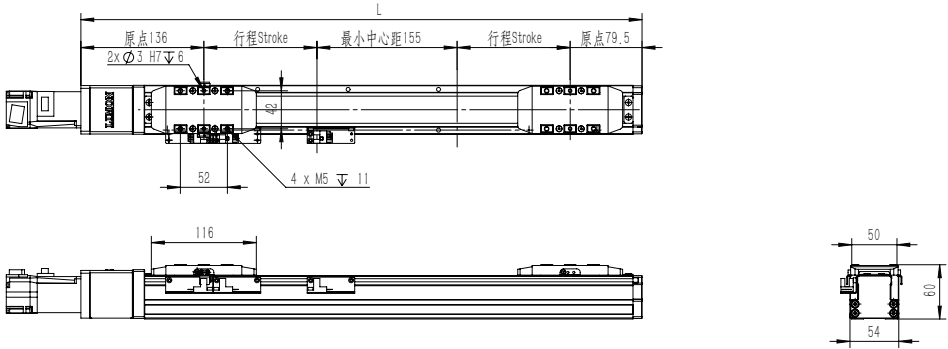
Horizontal Installation	A	B	C
5 lead	10kg 650	75 100	
	20kg 440	32 45	
	30kg 270	19 25	

Unit: mm

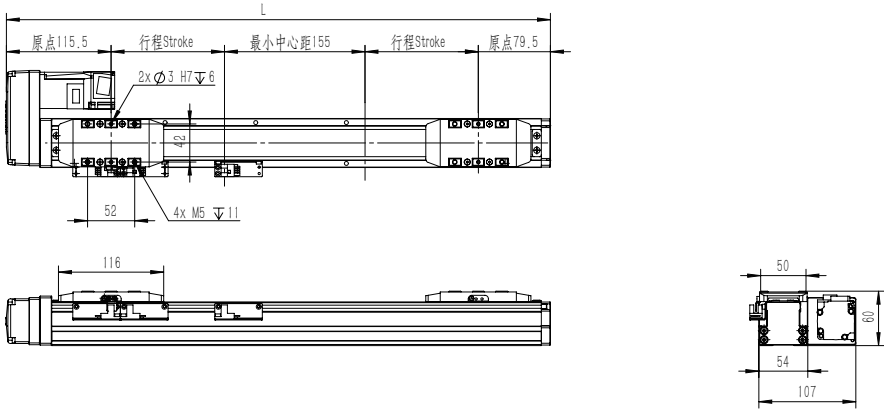
Wall Installation	A	B	C
5 lead	10kg 100	75 650	
	20kg 45	32 420	
	30kg 25	19 260	

Unit: mm

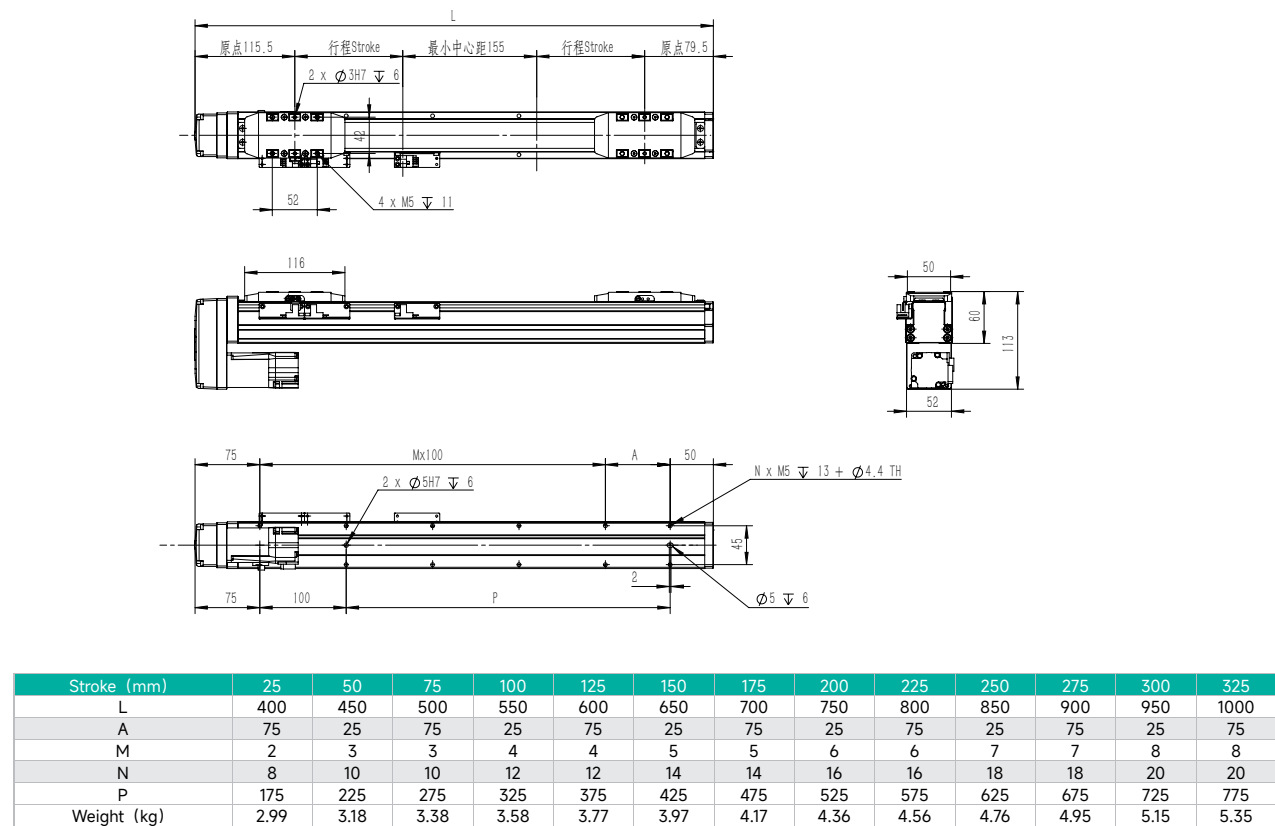
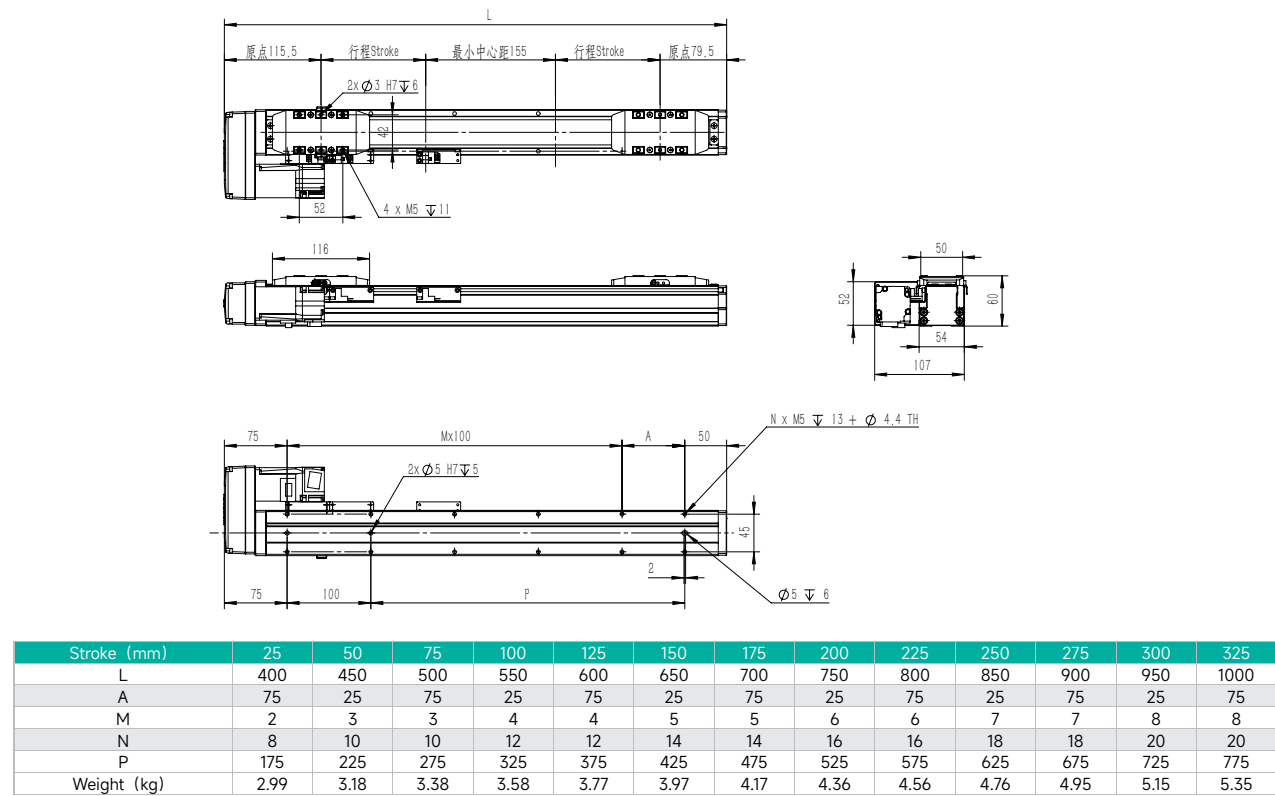
Vertical Installation	A	C
5 lead	6kg 145	145
	8kg 110	110
	10kg 90	90



Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	2.82	3.01	3.21	3.41	3.6	3.8	4	4.19	4.39	4.59	4.78	4.98	5.18



Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35



Code

GSC 80

Item NO.

L10

Ball Screw Lead
05
10
20
32

500

Stroke
50-1100, Gap50

MS

Motor Mounting Direction
Straight Motor Mounting
Left Motor Mounting
Right Motor Mounting
Down Motor Mounting

M40

Motor Brand, Power Output	
M	Mitsubishi 20 200W 40 400W
P	Panasonic 20 200W 40 400W

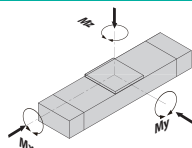
P3

Photoelectric Sensor
P1: 1PC
P2: 2PCS
P3: 3PCS
No Mark: No Sensor

A001

Special Order No.
No Mark: No Sensor

Max Static Forces And Torques

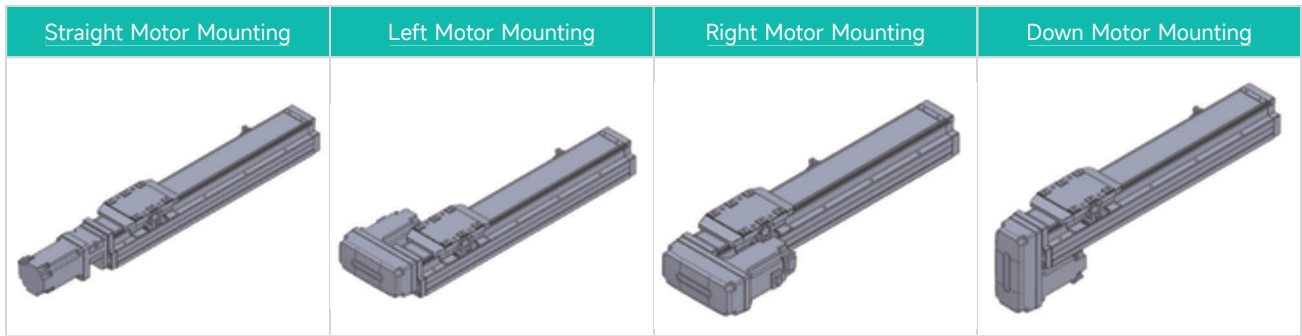


Type	GSC 80
M (x)(N.m)	626
M (y)(N.m)	318
M (z)(N.m)	318

All forces and torques relate to the following:

$$\frac{Mx}{Mx \max.} + \frac{My}{My \max.} + \frac{Mz}{Mz \max.} \leq 1$$

Motor Mounting Position Version

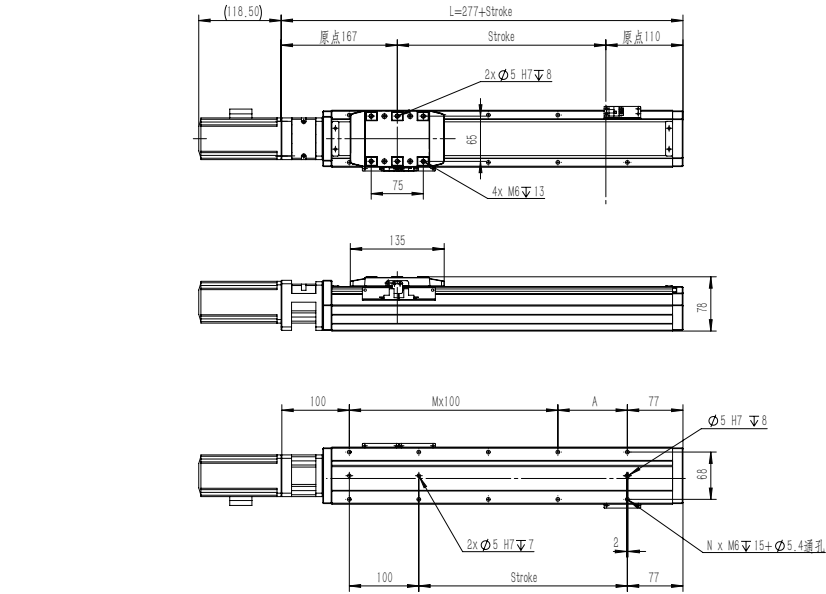


Basic Specification

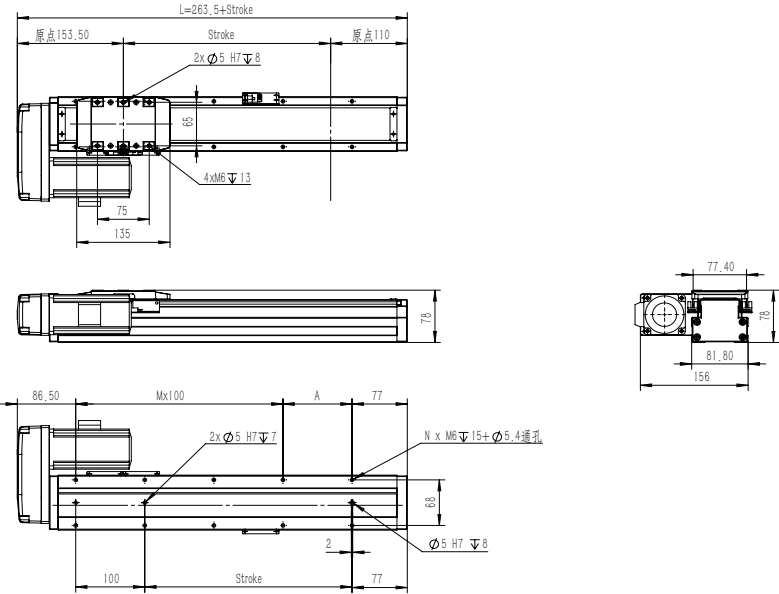
GSC 80						
Technical Parameters	Repetitive Accuracy(mm)		±0.005			
	Ball Screw Lead(mm)		5	10	20	32
	Maximum Speed(mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	50	30	18	13
		Vertical(kg)	15	8	3	2
	Rated Thrust(N)		1388	694	347	217
Basic Specification	Stroke(mm)		50-1100 mm / 50 Pitch			
	AC Servo Motor Output(W)		200/400			
	Ball Screw Diameter(mm)		C7 Ø16			
	Coupling (mm)		10×14/11			
	Home Sensor		PM-Y45(NPN)			

Allowable Overhang

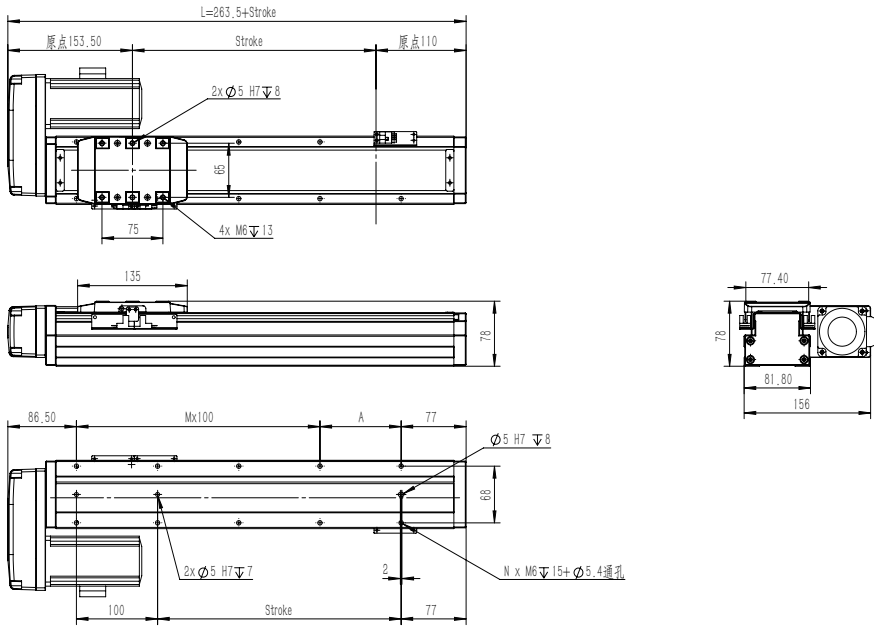
Unit: mm				
Horizontal Installation	5 lead	A	B	C
		20kg	1560	153 237
		35kg	890	81 126
		50kg	550	53 82
10 lead	10 lead	10kg	1730	286 412
		20kg	839	136 196
		30kg	541	86 124
		6kg	1213	403 493
20 lead	20 lead	9kg	800	264 323
		18kg	592	194 238
Wall Installation	5 lead	A	B	C
		20kg	214	153 1435
		35kg	113	81 845
		50kg	74	53 506
10 lead	10 lead	10kg	370	286 1400
		20kg	176	136 800
		30kg	112	86 495
		6kg	444	403 760
20 lead	20 lead	9kg	292	264 650
		18kg	214	194 544
Vertical Installation	5 lead	A	C	
		10kg	331	331
		15kg	220	220
		-	-	-
10 lead	10 lead	5kg	589	589
		8kg	368	368
		-	-	-
		3kg	935	935
20 lead	20 lead	-	-	-
		-	-	-
		-	-	-
		-	-	-



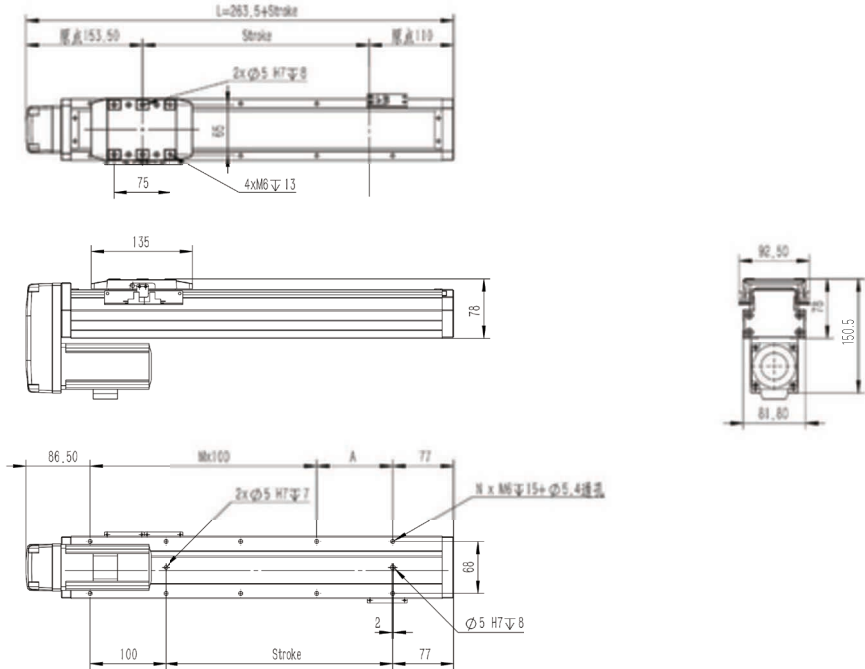
Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Weight (kg)	2.68	3.04	3.41	3.77	4.14	4.5	4.87	5.23	5.6	5.96	6.33	6.69	7.06	7.42	7.79	8.15	8.52	8.88	9.25	9.61	9.98	10.4



Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325
L	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	75	25	75	25	75	25	75	25	75	25	75	25	75
M	2	3	3	4	4	5	5	6	6	7	7	8	8
N	8	10	10	12	12	14	14	16	16	18	18	20	20
P	175	225	275	325	375	425	475	525	575	625	675	725	775
Weight (kg)	2.99	3.18	3.38	3.58	3.77	3.97	4.17	4.36	4.56	4.76	4.95	5.15	5.35



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4

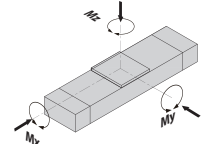
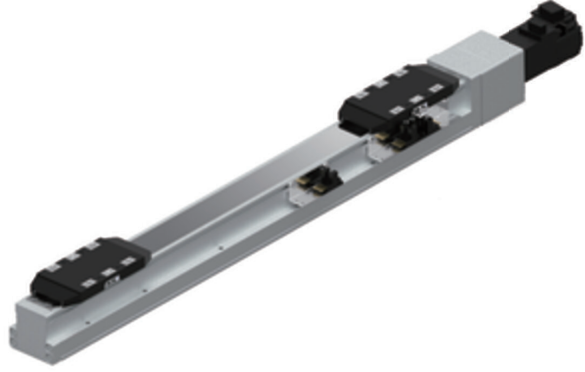


Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4

Code

GSC 80S	—	L10	—	500	—	MS	—	M40	—	P3	—	A001
Item NO.		Ball Screw Lead		Stroke		Motor Mounting Direction		Motor Brand、Power Output		Photoelectric Sensor		Special Order No.
		05		50-1100, Gap50		Straight Motor Mounting		M Mitsubishi 20 200W 40 400W		P1:1PC		No Mark:No Sensor
		10				Left Motor Mounting		P Panasonic 20 200W 40 400W		P2:2PCS		
		20				Right Motor Mounting				P3:3PCS		
		32				Down Motor Mounting				No Mark:No Sensor		

Max Static Forces And Torques

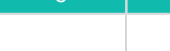


Type	GSC 80S
M (x)(N.m)	626
M (y)(N.m)	318
M (z)(N.m)	318

All forces and torques relate to the following:

$$\frac{Mx}{Mx \text{ max.}} + \frac{My}{My \text{ max.}} + \frac{Mz}{Mz \text{ max.}} \leq 1$$

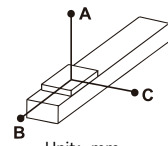
Motor Mounting Position Version

Straight Motor Mounting	Left Motor Mounting	Right Motor Mounting	Down Motor Mounting
			

Basic Specification

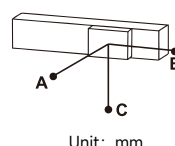
GSC 80S			
Technical Parameters	Repetitive Accuracy(mm)		±0.005
	Ball Screw Lead(mm)		05
	Maximum Speed(mm/s)		250
	Maximum Payload	Horizontal(kg)	50 (Dual Carriage)
		Vertical(kg)	15 (Dual Carriage)
	Rated Thrust(N)		1388
Basic Specification	Stroke(mm)		25-450 mm / 25 Pitch
	AC Servo Motor Output(W)		400
	Ball Screw Diameter(mm)		C7 Ø16
	Coupling(mm)		10×14/11
	Home Sensor		PM-Y45(NPN)

Allowable Overhang



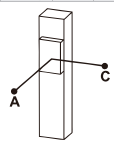
Unit: mm

Horizontal Installation		A	B	C
05 lead	25kg	1560	153	237
	35kg	890	81	126
	50kg	550	53	82



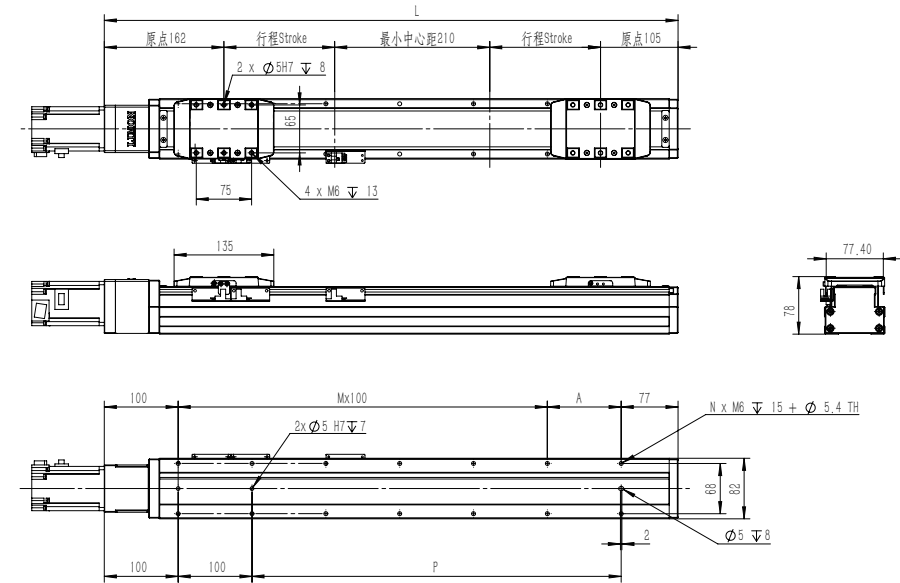
Unit: mm

Wall Installation		A	B	C
05 lead	20kg	214	153	1435
	35kg	113	81	845
	50kg	74	53	506

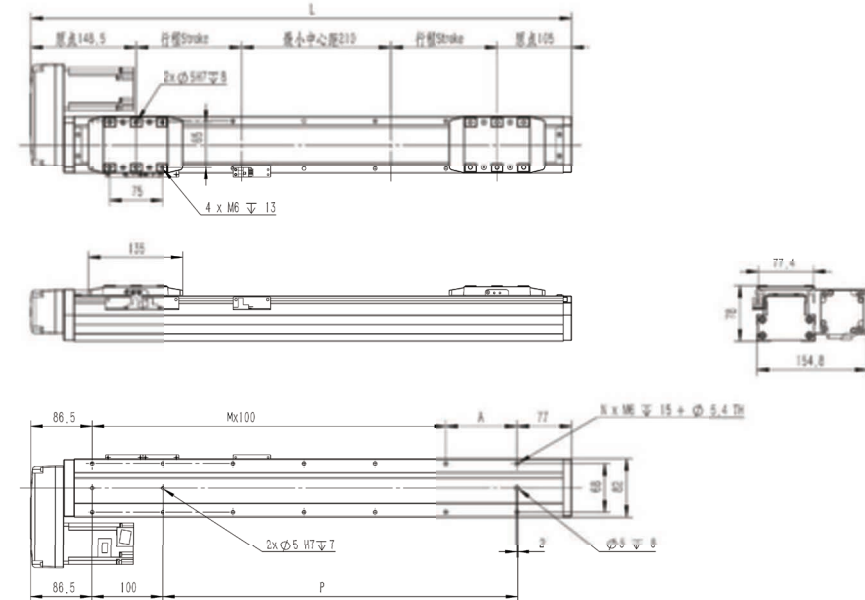


Unit: mm

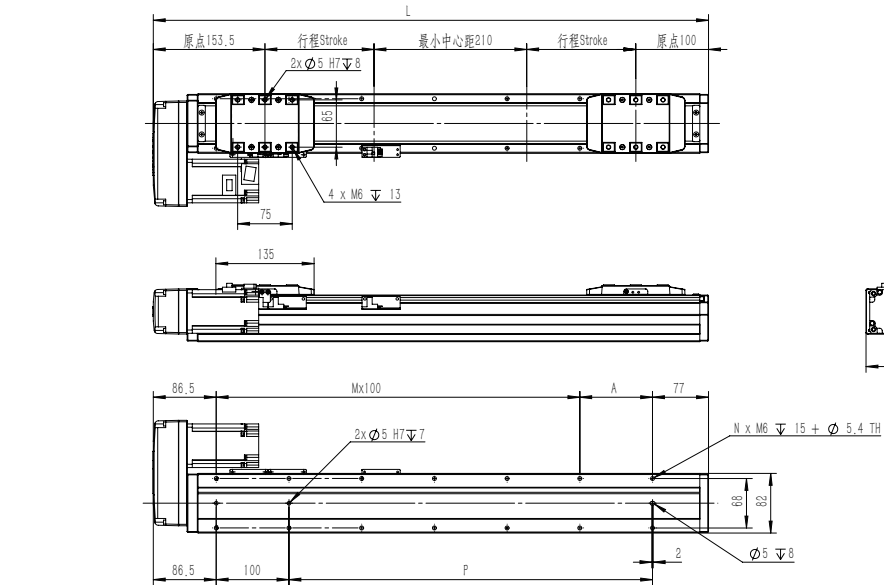
Vertical Installation		A	C
05 lead	10kg	331	331
	15kg	220	220
	/	/	/



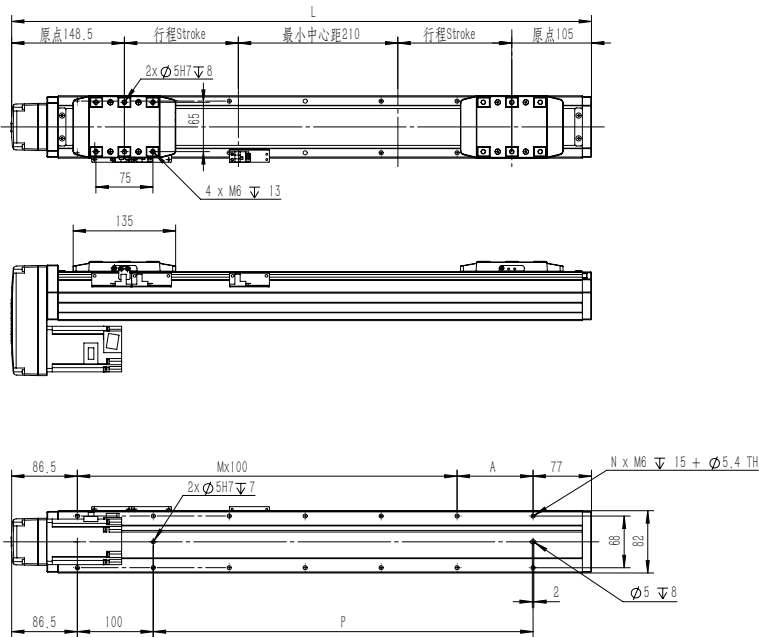
Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	527	577	627	678	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	6.64	7.00	7.37	7.73	8.10	8.46	8.83	9.19	9.56	9.92	10.29	10.65	11.02	11.38	11.75	12.12	12.48	12.85



Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	7.16	7.68	8.52	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.49	12.85



Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.49	12.85



Stroke (mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
L	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	106.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
P	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
Weight (kg)	7.16	7.68	8.2	8.72	9.24	9.76	10.28	10.8	11.32	11.84	12.36	12.88	13.4	13.92	14.44	14.96	15.49	12.85

Code

GSC 120

Item NO.

L10

Ball Screw Lead

05

10

20

32

500

Stroke

50-1250,
Gap50

MS

Motor Mounting Direction

Straight Motor Mounting

Left Motor Mounting

Right Motor Mounting

Down Motor Mounting

M40

Motor Brand, Power Output

M Mitsubishi 20 200W

40 400W

P Panasonic 20 200W

40 400W

P3

Photoelectric Sensor

P1:1PC

P2:2PCS

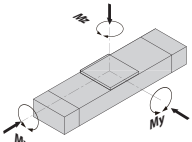
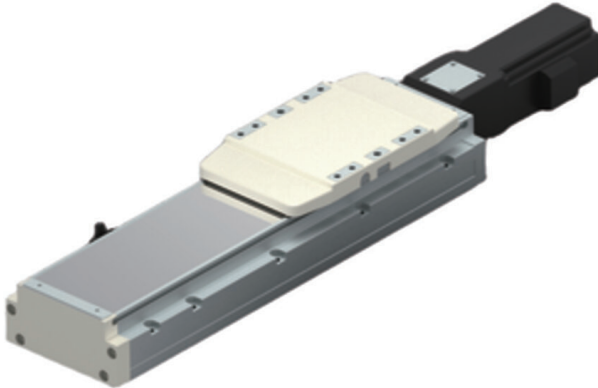
P3:3PCS

No Mark/No Sensor

A001

Special Order No.

Max Static Forces And Torques

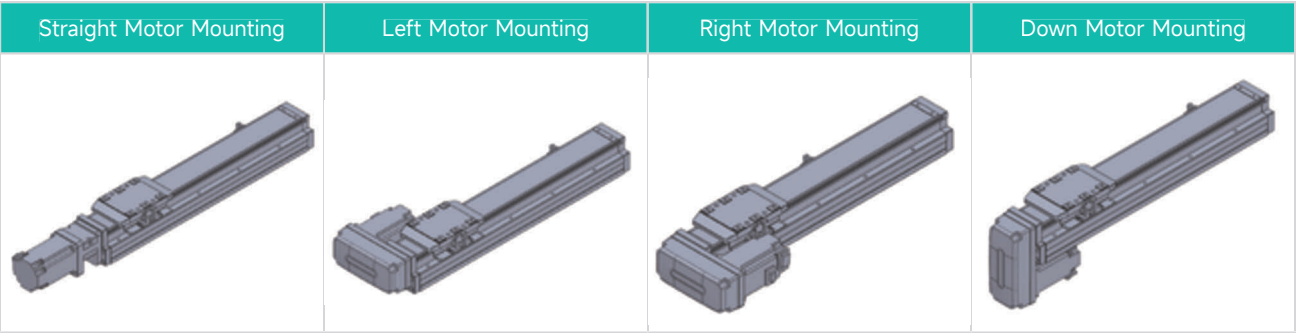


Type	GSC 120
M (x)(N.m)	606
M (y)(N.m)	606
M (z)(N.m)	1168

All forces and torques relate to the following:

$$\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$$

Motor Mounting Position Version

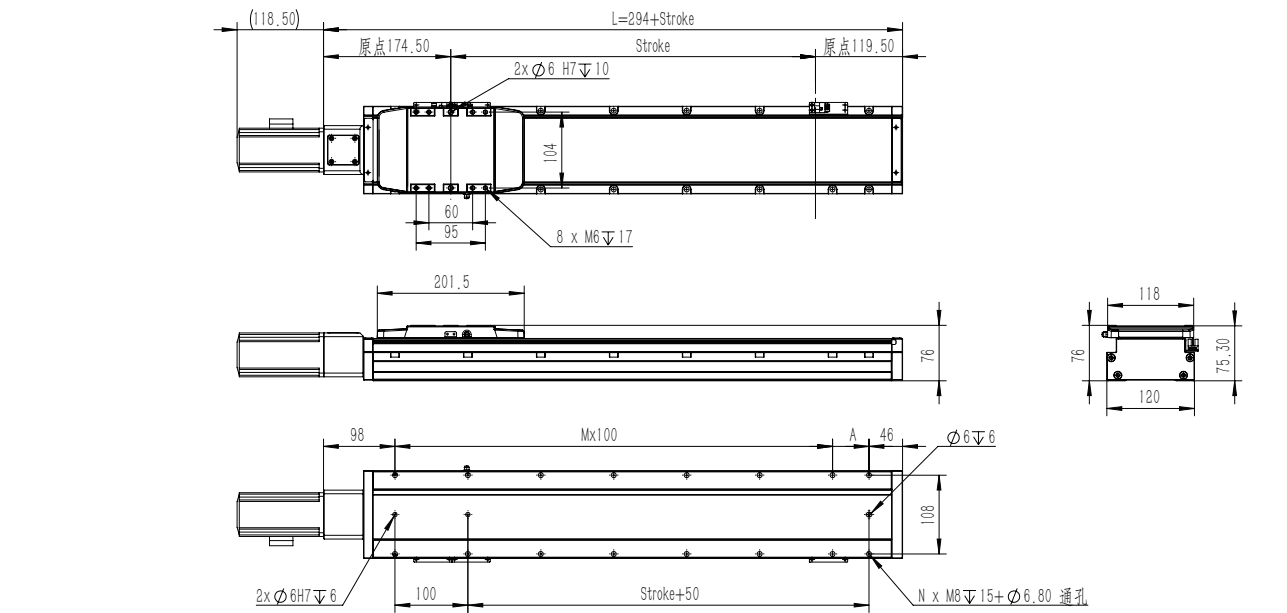


Basic Specification

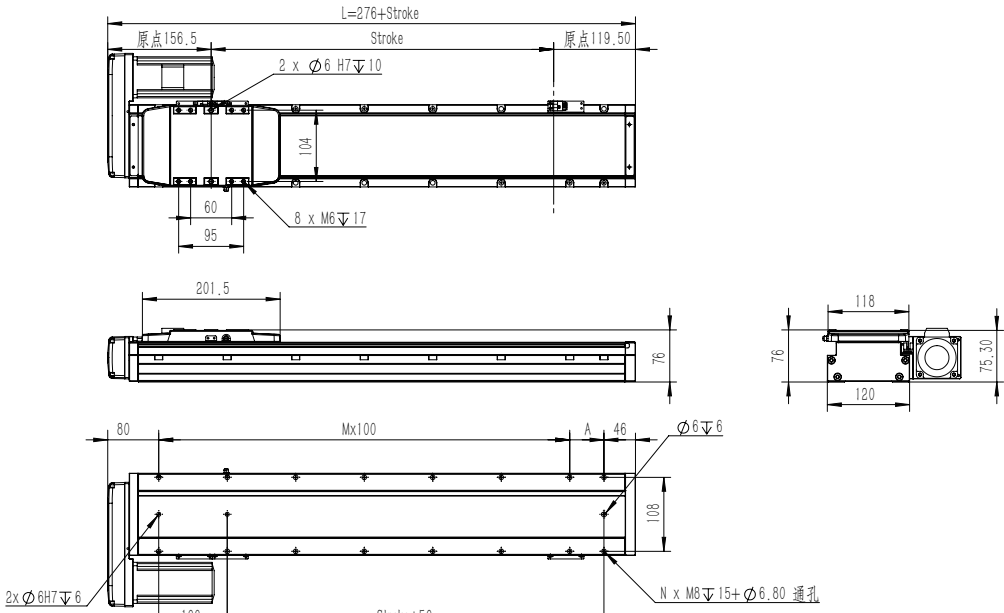
GSC 120						
Technical Parameters	Repetitive Accuracy(mm)		±0.005			
	Ball Screw Lead(mm)		5	10	20	32
	Maximum Speed(mm/s)		250	500	1000	1600
	Maximum Payload	Horizontal(kg)	110	88	40	30
		Vertical(kg)	33	22	10	8
	Rated Thrust(N)		1388	694	347	218
Basic Specification	Stroke(mm)		50-1250 mm/ 50 Pitch			
	AC Servo Motor Outpu(W)		200/400			
	Ball Screw Diameter(mm)		C7 Ø16			
	Coupling (mm)		10×14/11			
	Home Sensor		PM-Y45(NPN)			

Allowable Overhang

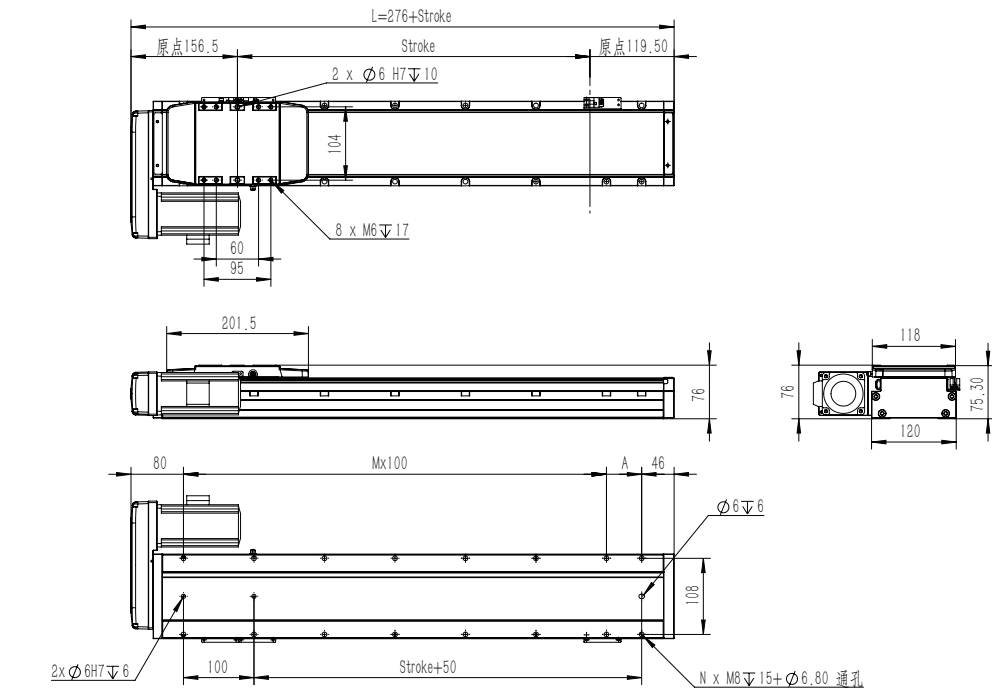
Horizontal Installation		A	B	C	Wall Installation		A	B	C	Vertical Installation		A	C	
5 lead	60kg	2850	250	340	5 lead	55kg	280	280	3300	5 lead	15kg	1200	1200	
	80kg	2100	180	250		75kg	200	195	2400		22kg	820	820	
	110kg	1500	120	170		110kg	130	125	1550		33kg	550	550	
10 lead	30kg	2850	490	600	10 lead	35kg	400	410	2500	10 lead	10kg	1600	1600	
	50kg	1700	280	350		55kg	245	250	1550		14kg	1150	1150	
	88kg	950	140	190		88kg	150	150	950		22kg	730	730	
20 lead	10kg	3400	1250	1400	20 lead	12kg	900	1070	3000	20 lead	7kg	1800	1800	
	22kg	1650	550	620		20kg	550	630	1800		10kg	1250	1250	
	40kg	900	290	330		40kg	260	300	900		-	-	-	
32 lead	15kg	1100	570	550	32 lead	15kg	440	570	1050	32 lead	5kg	1600	1600	
	25kg	620	330	320		30kg	210	270	520		8kg	1000	1000	
	30kg	520	270	260		-	-	-	-		-	-	-	



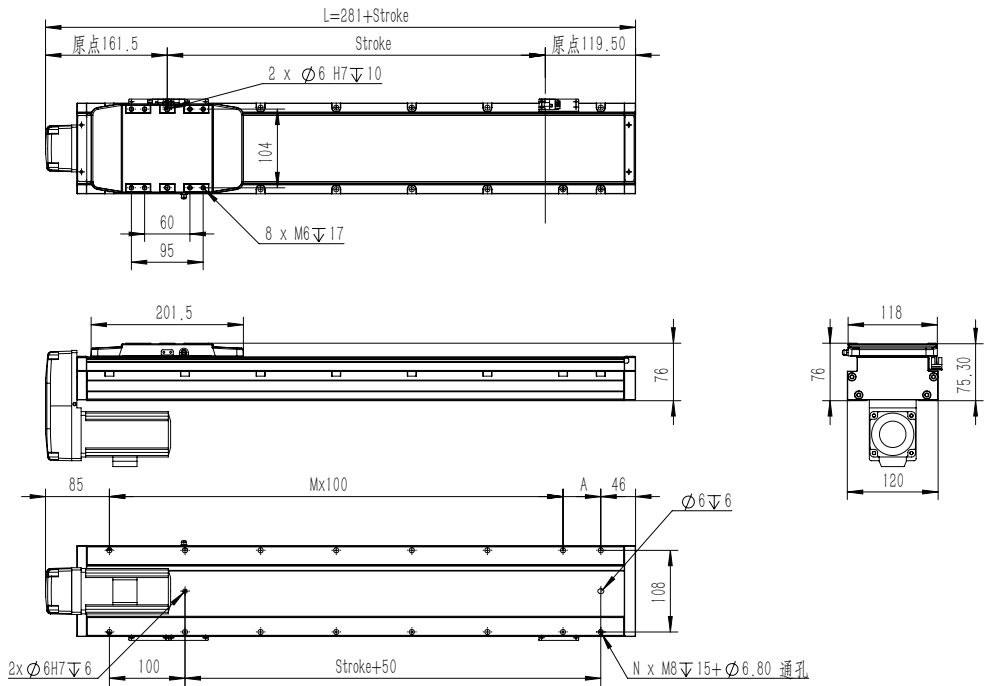
Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	344	394	444	494	544	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
Weight(kg)	5.05	5.4	5.75	6.1	6.45	6.8	7.15	7.5	7.85	8.2	8.55	8.9	9.25	9.6	9.95	10.3	10.65	11	11.35	11.7	12.05	12.4	12.75	13.1	13.45



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

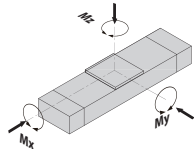
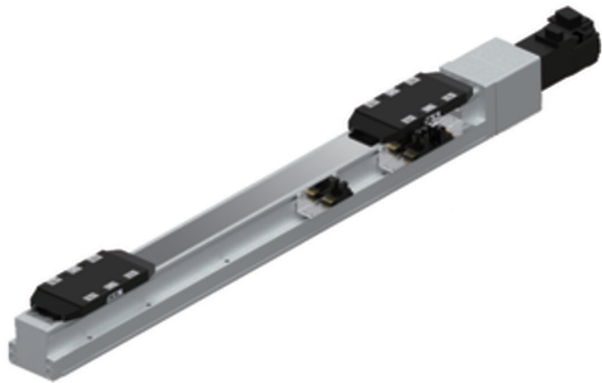


Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

Code

GSC 120S	L10	275	MS	M40	P3	A001
Item NO.	Ball Screw Lead	Stroke	Motor Mounting Direction	Motor Brand、Power Output	Photoelectric Sensor	Special Order No.
	05	25-500, Gap25	Straight Motor Mounting Left Motor Mounting Right Motor Mounting Down Motor Mounting	M Mitsubishi 20 200W 40 400W P Panasonic 20 200W 40 400W	P1: 1PC P2:2PCS P3:3PCS No Mark:No Sensor	

Max Static Forces And Torques

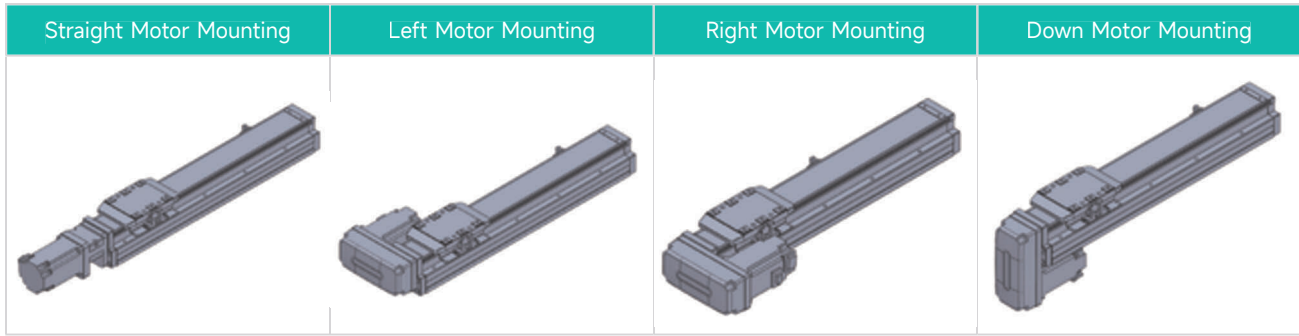


Type	GSC 120S
M (x)(N.m)	606
M (y)(N.m)	606
M (z)(N.m)	1168

All forces and torques relate to the following:

$$\frac{M_x}{M_{x\ max.}} + \frac{M_y}{M_{y\ max.}} + \frac{M_z}{M_{z\ max.}} \leq 1$$

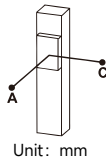
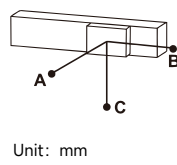
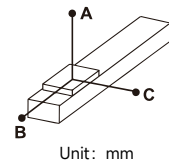
Motor Mounting Position Version



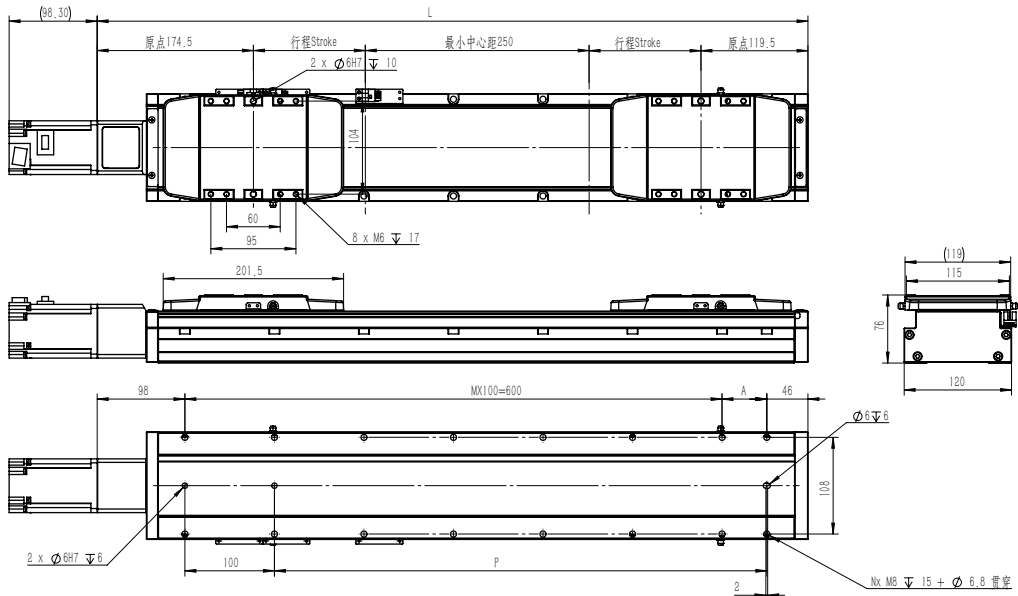
Basic Specification

GSC 120S					
Technical Parameters	位置重复精度 Repetitive Accuracy(mm)	±0.005			
	螺杆导程 Ball Screw Lead(mm)	5	10	20	32
	最高速度 Maximum Speed(mm/s)	250	500	1000	1600
	最大可搬重量 Maximum Payload	水平使用Horizontal(kg)	110	88	40
		垂直使用Vertical(kg)	33	22	10
Basic Specification	定格推力 Rated Thrust(N)	1388	694	347	218
	标准行程 Stroke(mm)	50-1250 mm/ 50 Pitch			
	AC伺服马达容量 AC Servo Motor Output(W)	400			
	滚珠螺杆外径 Ball Screw Diameter(mm)	C7 Ø16			
	联轴器 Coupling (mm)	10×14/11			
	原点感应器 Home Sensor	PM-Y45(NPN)			

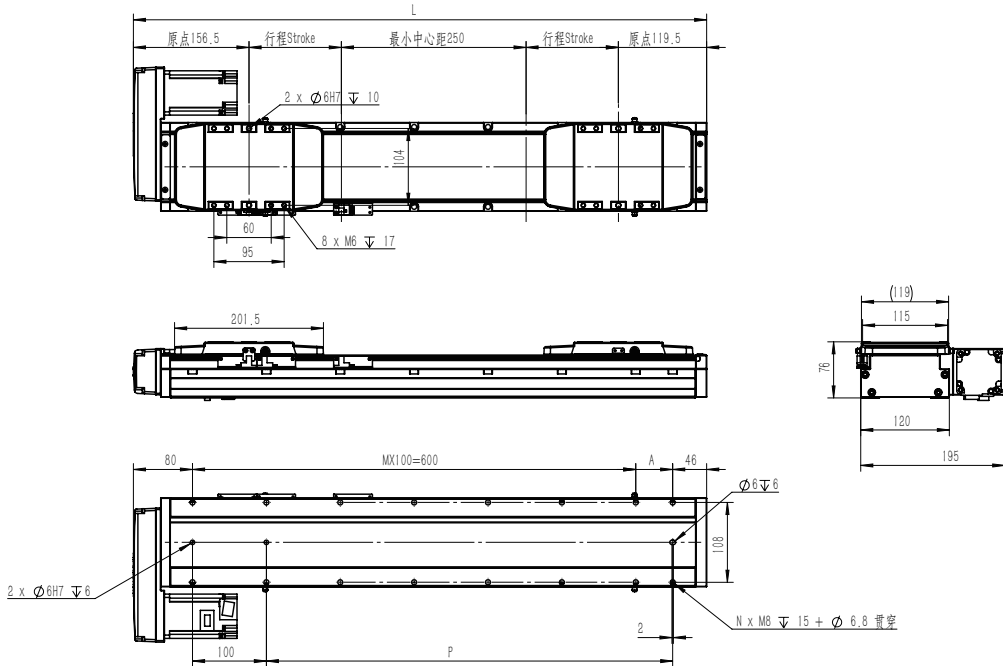
Allowable Overhang



Horizontal Installation				Wall Installation				Vertical Installation			
	A	B	C		A	B	C		A	C	
5 lead	60kg	2850	250	340	5 lead	55kg	280	280	3300	15kg	1200
	80kg	2100	180	250		75kg	200	195	2400	22kg	820
	110kg	1500	120	170		110kg	130	125	1550	33kg	550
10 lead	30kg	2850	490	600	10 lead	35kg	400	410	2500	10kg	1600
	50kg	1700	280	350		55kg	245	250	1550	14kg	1150
	88kg	950	140	190		88kg	150	150	950	22kg	730
20 lead	10kg	3400	1250	1400	20 lead	12kg	900	1070	3000	7kg	1800
	22kg	1650	550	620		20kg	550	630	1800	10kg	1250
	40kg	900	290	330		40kg	260	300	900	-	-
32 lead	15kg	1100	570	550	32 lead	15kg	440	570	1050	5kg	1600
	25kg	620	330	320		30kg	210	270	520	8kg	1000
	30kg	520	270	260		-	-	-	-	-	-



Stroke(mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
L	594	644	694	744	794	844	894	944	994	1044	1094	1144	1194	1244	1294	1344	1394	1444	1494	1544
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
Weight(kg)	8.73	9.08	9.43	9.78	10.13	10.48	10.83	11.18	11.53	11.88	12.23	12.58	12.93	13.28	13.63	13.98	14.33	14.68	15.03	15.38



Stroke(mm)	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
L	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
P	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
Weight(kg)	8.89	9.24	9.59	9.94	10.29	10.64	10.99	11.34	11.69	12.04	12.39	12.74	13.09	13.44	13.79	14.14	14.49	14.84	15.19	15.54

Spec Index Eltctric Actuator

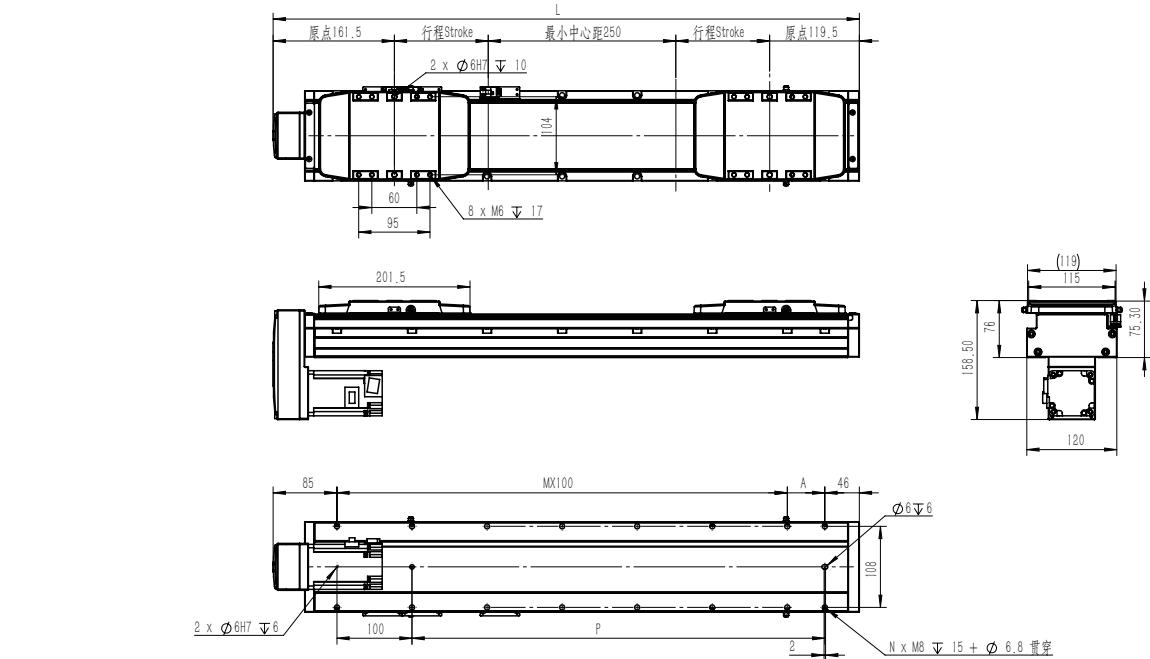
GSC Built-in Linear Motion Guide Ball Screw Actuator-Slider Type

Environment	Driven Mode	Specification	Motor Output (w)	Width(mm)	Repeatability(mm)	Ball Screw Spec		Maximum Payload(kg)	
						Outer Diameter(mm)	Lead(mm)	Horizontal	Vertical
Standard	Ball screw	GSC40	100W	44	±0.005	10	06	20	5
							12	12	2
		GSC50	100W	54	±0.005	12	5	30	10
							10	15	5
							20	10	2.5
		GSC80	200W	82	±0.005	16	5	50	15
			400W				10	30	8
							20	18	3
							32	13	2
		GSC120	200W	120	±0.005	16	5	110	33
			400W				10	88	22
							20	40	10
							32	30	8

Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126	1176	1226	1276	1326	1376	1426	1476	1526
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

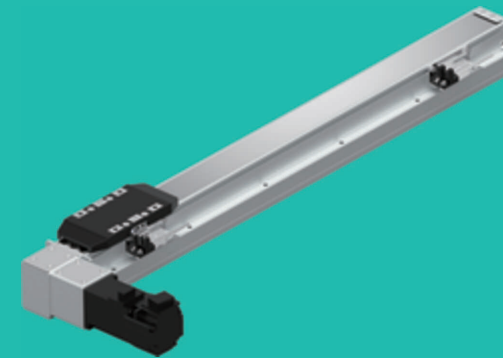
Environment	Driven Mode	Specification	lead (mm)	Maximum Speed(mm/s) ^{*1}	Stroke[mm] & Maximum Speed[mm/s] ^{*2}																										
					Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	
Standard	Ball screw	GSC40	06	300					300									270	240	210	180	150									
			12	600					600										540	480	420	360	300								
		GSC50	5	250					250											225	200	175	150								
			10	500					500											450	400	350	300								
		GSC80	20	1000					1000											900	800	700	600								
			5	250						250												225	200	175	150	125	100	75			
			10	500						500												450	400	350	300	250	200	150			
			20	1000						1000												900	800	700	600	500	400	300			
		GSC120	32	1600						1600												1440	1280	1120	960	800	640	480			
			5	250						250													225	200	175	167	158	150	133	125	117
			10	500						500													450	400	350	333	317	300	267	250	233
			20	1000						1000													900	800	700	667	633	600	533	500	467
			32	1600						1600													1440	1280	1120	1067	1013	960	853	800	747

- * The highest speed is based on the maximum servo motor's rpm (3000).
- * Written here is the standard storke's maximum safe speed. If over this speed, it may casue serious virbration.



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	1281	1331	1381	1431	1481	1531
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
Weight(kg)	5.21	5.56	5.91	6.26	6.61	6.96	7.31	7.66	8.01	8.36	8.71	9.06	9.41	9.76	10.11	10.46	10.81	11.16	11.51	11.86	12.21	12.56	12.91	13.28	13.61

Rail embedded conveyor belt slide table



GTC 50



GTC 80

Code

GTC 50

Item NO.

L40

Pulley Lead

500

Stroke

50-1500,
Gap50

D01

Motor Mounting Direction

Left Motor Mounting
Right Motor Mounting
UP Motor Mounting
Down Motor Mounting

M10

Motor Brand、Power Output

M Mitsubishi 10 100W
P Panasonic 10 100W

P3

Photoelectric Sensor

P1:1PC
P2:2PCS
P3:3PCS
No Mark:No Sensor

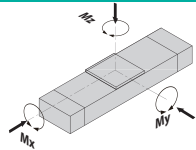
A001

Special Order No.

No Mark:No Sensor



Max Static Forces And Torques



Type	GTC 50
M (x)(N.m)	606
M (y)(N.m)	606
M (z)(N.m)	1168

All forces and torques relate to the following:

$$\frac{M_x}{M_{x\ max.}} + \frac{M_y}{M_{y\ max.}} + \frac{M_z}{M_{z\ max.}} \leq 1$$

Motor Mounting Position Version

D01:Left Motor Mounting

D02: Right Motor Mounting

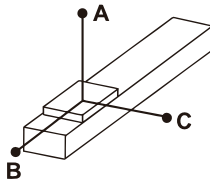
D03: UP Motor Mounting

D04: Down Motor Mounting

Basic Specification

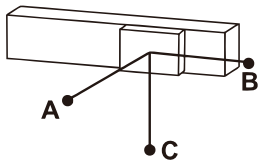
GTC 50		
Technical Parameters	Repetitive Accuracy(mm)	±0.04
	Pulley Lead(mm)	40
	Maximum Speed(mm/s)	2000
	Maximum Payload	Horizontal(kg) 5
		Vertical(kg) /
	Rated Thrust(N)	48
Basic Specification	Stroke(mm)	50-1500 mm /50 Pitch
	AC Servo Motor Output(W)	100
	Belt Width(mm)	9
	Coupling(mm)	8×8
	Home Sensor	PM-Y45(NPN)

Allowable Overhang



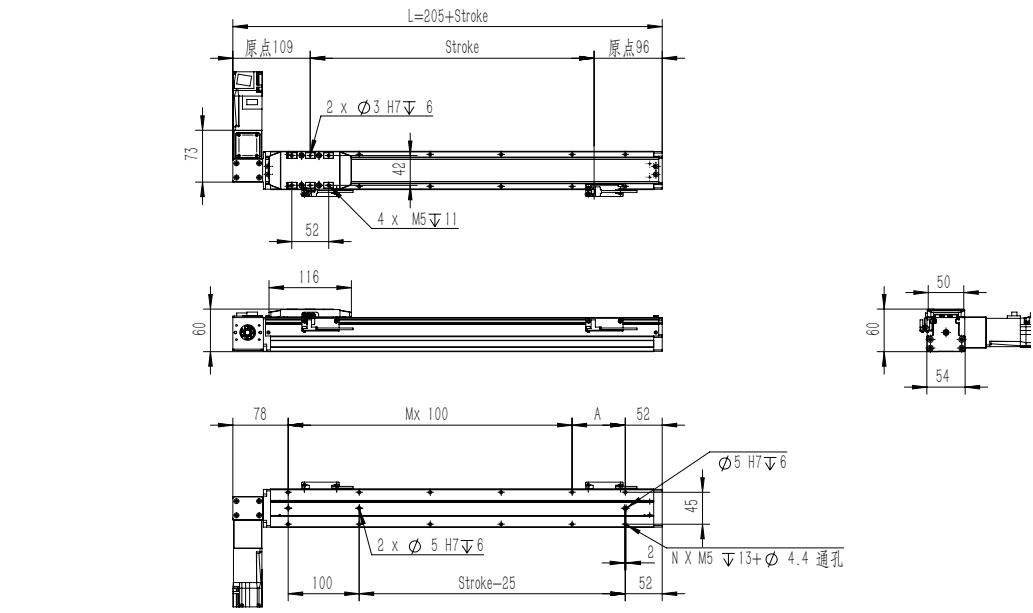
Unit: mm

Horizontal Installation	A	B	C
2kg	320	120	130
3.5kg	220	70	80
5kg	175	55	60

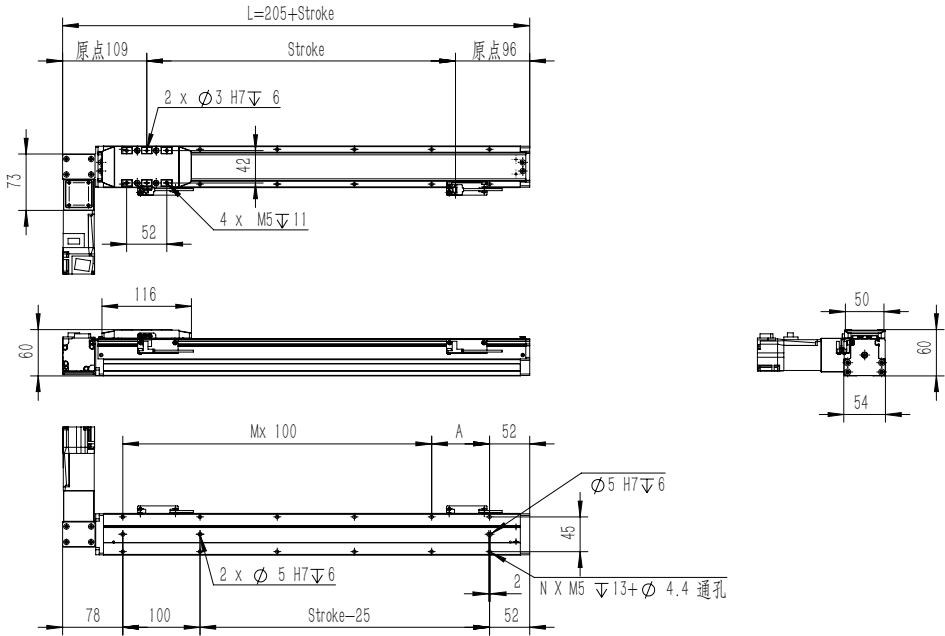


Unit: mm

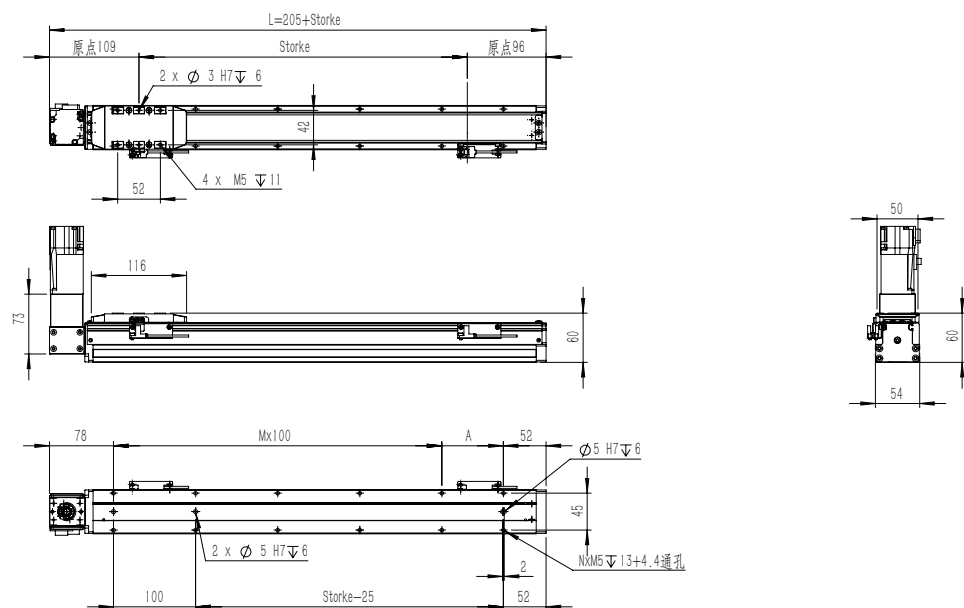
Wall Installation	A	B	C
2kg	130	120	320
3.5kg	75	70	320
5kg	65	55	170



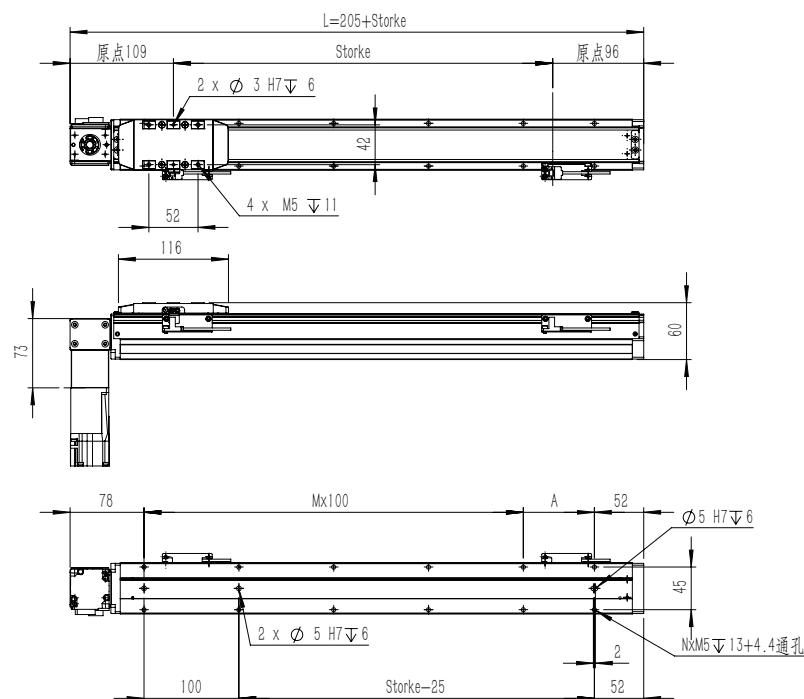
Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0

Code

GTC 80

L48

500

D01

M40

P3

A001

Item NO.

Pulley Lead

Stroke

Motor Mounting Direction

Left Motor Mounting

Right Motor Mounting

UP Motor Mounting

Down Motor Mounting

Motor Brand, Power Output

M Mitsubishi 40 400W

P Panasonic 40 400W

Photoelectric Sensor

P1:1PC

P2:2PCS

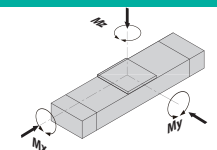
P3: 3个 3PCS

No Mark/No Sensor

Special Order No.

No Mark/No Sensor

Max Static Forces And Torques

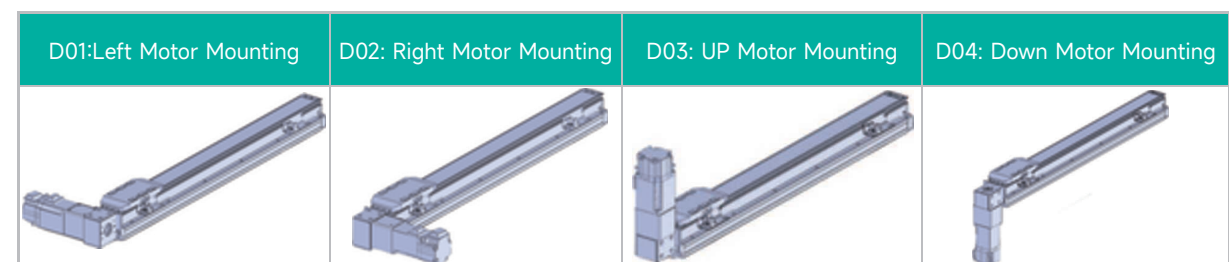


Type	GTC 80
M (x)(N.m)	318
M (y)(N.m)	318
M (z)(N.m)	626

All forces and torques relate to the following:

$$\frac{M_x}{M_{x \max.}} + \frac{M_y}{M_{y \max.}} + \frac{M_z}{M_{z \max.}} \leq 1$$

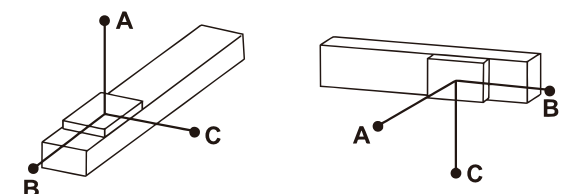
Motor Mounting Position Version



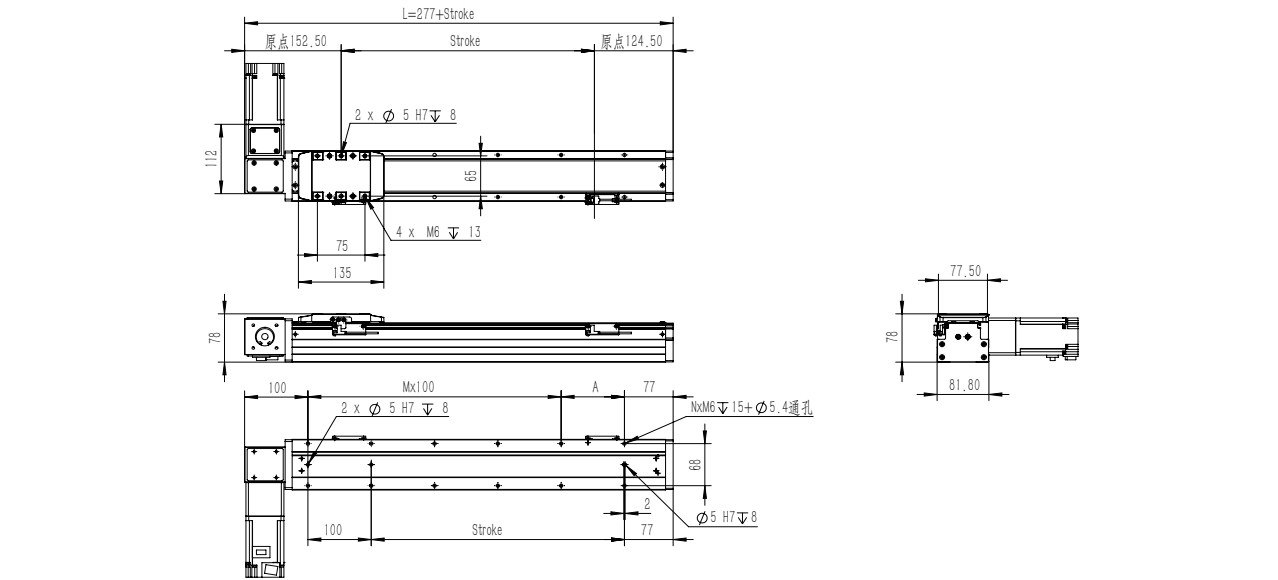
Basic Specification

GTC 80		
Technical Parameters	Repetitive Accuracy(mm)	±0.04
	Pulley Lead(mm)	48
	Maximum Speed(mm/s)	2400
	Maximum Payload	Horizontal(kg) 15 Vertical(kg) /
	Rated Thrust(N)	80
Basic Specification	Stroke(mm)	50-1500 mm /50 Pitch
	AC Servo Motor Output(W)	400
	Belt Width(mm)	15
	Coupling (mm)	10×14
	Home Sensor	PM-Y45(NPN)

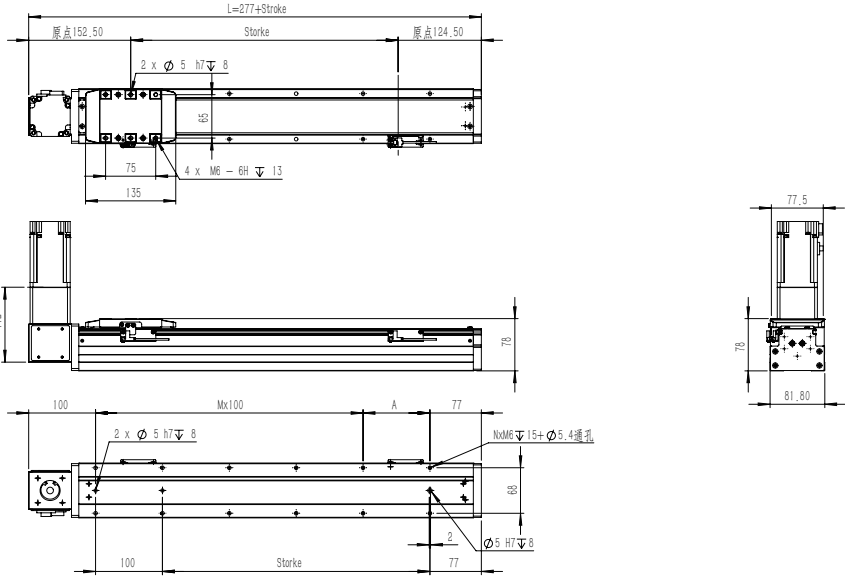
Allowable Overhang



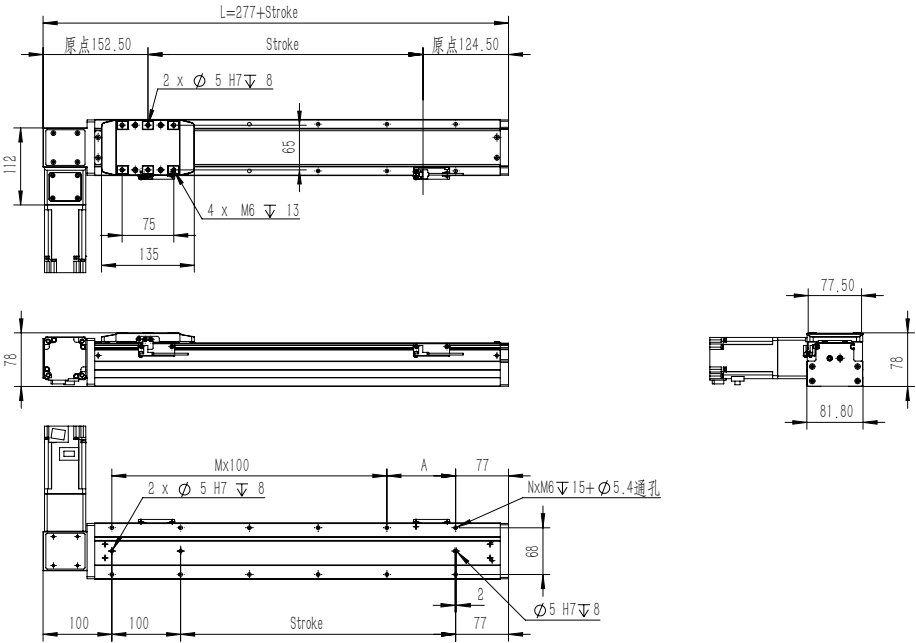
Unit: mm				Unit: mm			
Horizontal Installation	A	B	C	Wall Installation	A	B	C
5kg	850	322	395	5kg	355	310	532
10kg	560	185	226	10kg	210	196	455
15kg	473	135	156	15kg	171	155	435



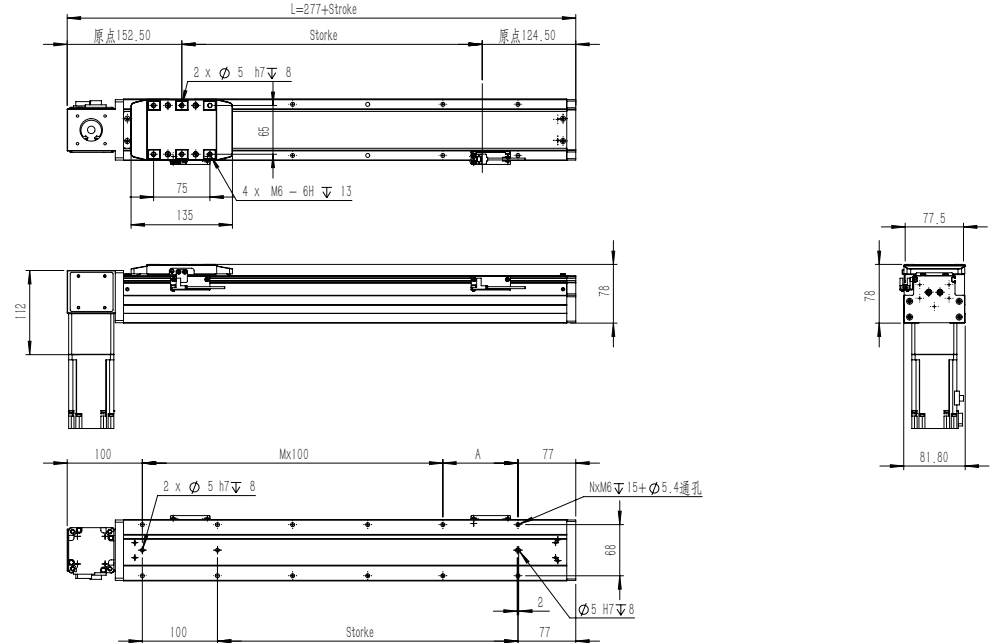
Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
Weight (kg)	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.17	10.44	10.71	10.98



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
Weight (kg)	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.17	10.44	10.71	10.98

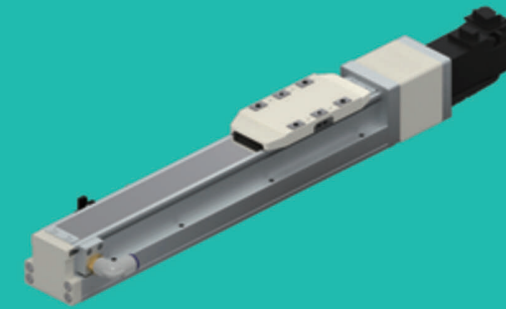


Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
Weight (kg)	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.17	10.44	10.71	10.98

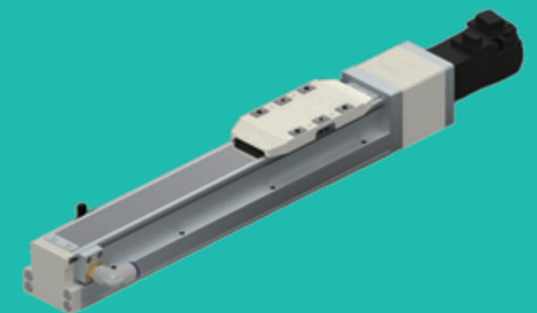


Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34
Weight (kg)	3.15	3.42	3.69	3.96	4.23	4.5	4.77	5.04	5.31	5.58	5.85	6.12	6.39	6.66	6.93	7.2	7.47	7.74	8.01	8.28	8.55	8.82	9.09	9.36	9.63	9.9	10.17	10.44	10.71	10.98

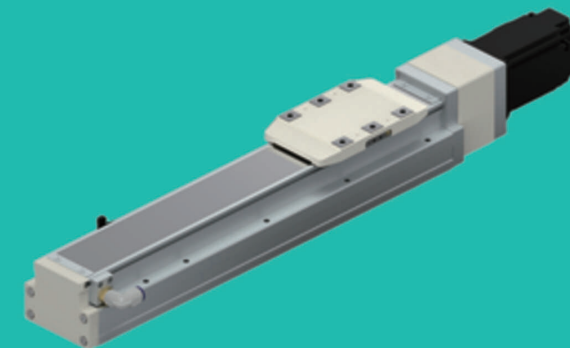
Embedded sliding table for dust-free workshop



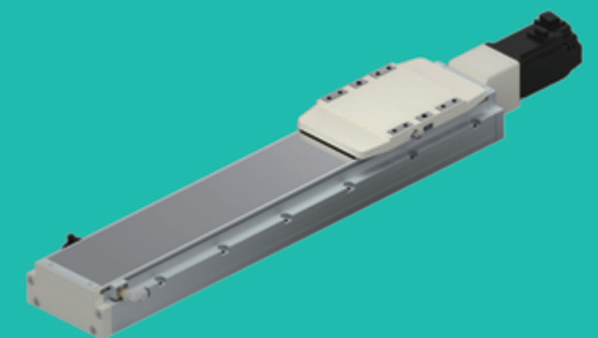
GCC 40



GCC 50



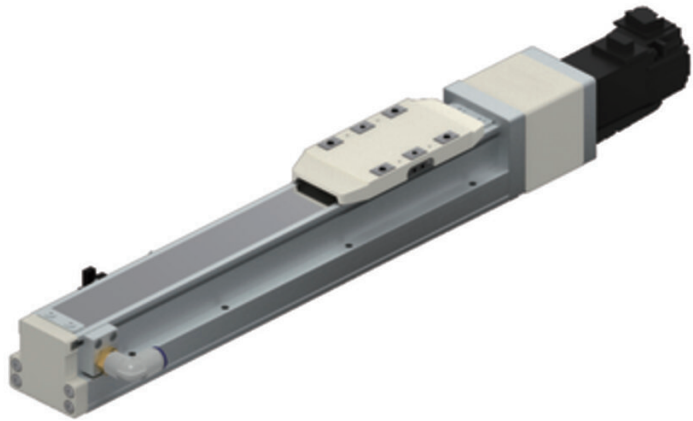
GCC 80



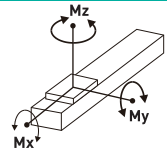
GCC 120

Code

GCC 40	06	500	MS	M10	P3	A001
Item NO.	Ball Screw Lead	Stroke	Motor Mounting Direction	Motor Brand, Power Output	Photoelectric Sensor	Special Order No.
	06	50-800, Gap50	Straight Motor Mounting	M Mitsubishi 10 100W	P1:1PC	No Mark/No Sensor
	12		Left Motor Mounting	P Panasonic 10 100W	P2:2PCS	
			Right Motor Mounting		P3: 3PCS	
			Down Motor Mounting		No Mark/No Sensor	



Max Static Forces And Torques

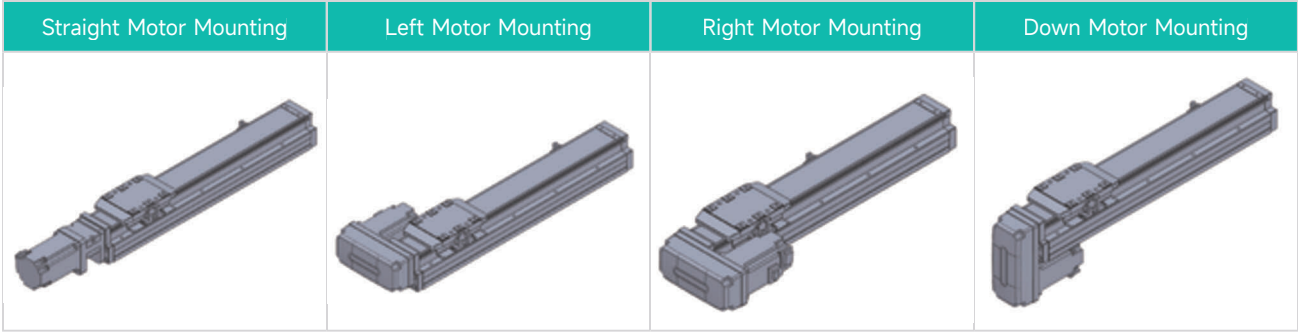


Type	GCC 40
M (x)(N.m)	116
M (y)(N.m)	79
M (z)(N.m)	79

All forces and torques relate to the following:

$$\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$$

Motor Mounting Position Version



Basic Specification

GCC 40		
Technical Parameters	Repetitive Accuracy(mm)	±0.005
	Ball Screw Lead(mm)	6 12
	Maximum Speed(mm/s)	300 600
	Maximum Payload	Horizontal(kg) 20 12
		Vertical(kg) 8 3.5
	Rated Thrust(N)	141 71
Basic Specification	Stroke(mm)	50-800 mm/ 50 Pitch
	AC Servo Motor Output(W)	100
	Ball Screw Diameter(mm)	C7 Ø10
	Coupling (mm)	7×8
	Home Sensor	PM-Y45(NPN)

Allowable Overhang

Unit: mm

Horizontal Installation

	A	B	C
06 lead	10kg 550	53 70	
	15kg 350	32 45	
	20kg 250	22 31	
12 lead	8kg 305	59 75	
	10kg 240	45 57	
	12kg 195	37 47	

Unit: mm

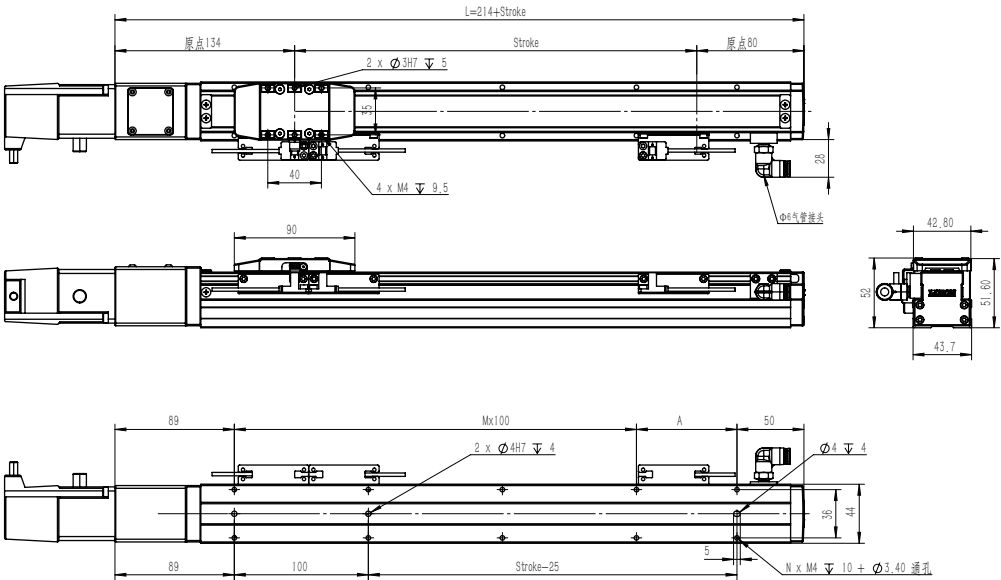
Wall Installation

	A	B	C
06 lead	10kg 72	52 550	
	15kg 45	32 345	
	20kg 31	22 250	
12 lead	8kg 75	59 300	
	10kg 58	45 240	
	12kg 47	37 190	

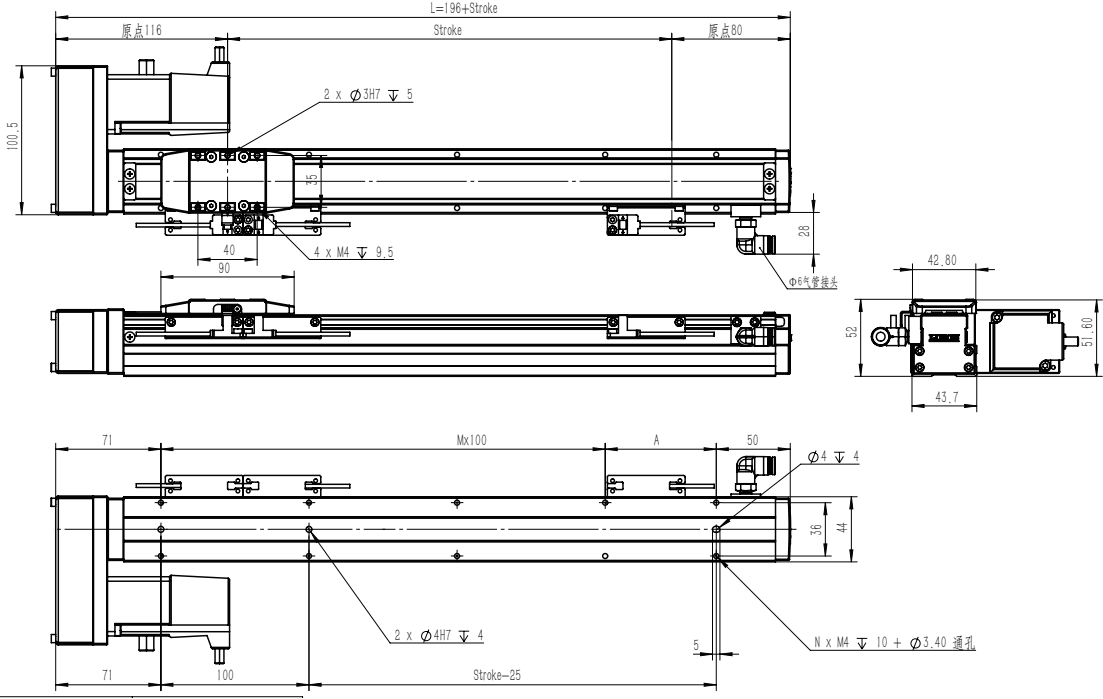
Unit: mm

Vertical Installation

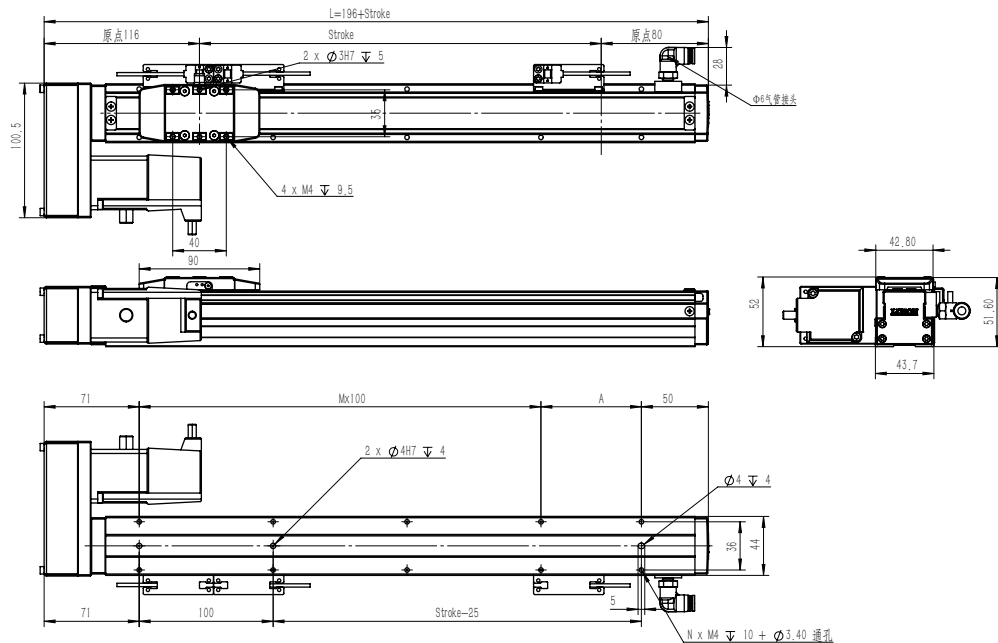
	A	C
06 lead	4kg 150	150
	8kg 75	75
	- -	-
12 lead	2kg 260	260
	3.5kg 150	150
	- -	-



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	264	314	364	414	464	514	564	614	664	714	764	814	864	914	964	1014
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight(kg)	1.23	1.41	1.59	1.77	1.95	2.13	2.31	2.49	2.67	2.85	3.03	3.21	3.39	3.57	3.75	3.93



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight(kg)	1.34	1.52	1.7	1.88	2.06	2.24	2.42	2.6	2.78	2.96	3.14	3.32	3.5	3.68	3.86	4.04



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	246	296	346	396	446	496	546	596	646	696	746	796	846	896	946	996
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight(kg)	1.34	1.52	1.7	1.88	2.06	2.24	2.42	2.6	2.78	2.96	3.14	3.32	3.5	3.68	3.86	4.04

Code

GCC 50

Item NO.

L10

Ball Screw Lead

05

10

20

500

Stroke

50-800,
Gap50

MS

Motor Mounting Direction

Straight Motor Mounting

Left Motor Mounting

Right Motor Mounting

Down Motor Mounting

M40

Motor Brand, Power Output

M Mitsubishi 10 100W

P Panasonic 10 100W

P3

Photoelectric Sensor

P1:1PC

P2:2PCS

P3:3PCS

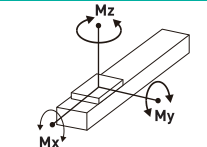
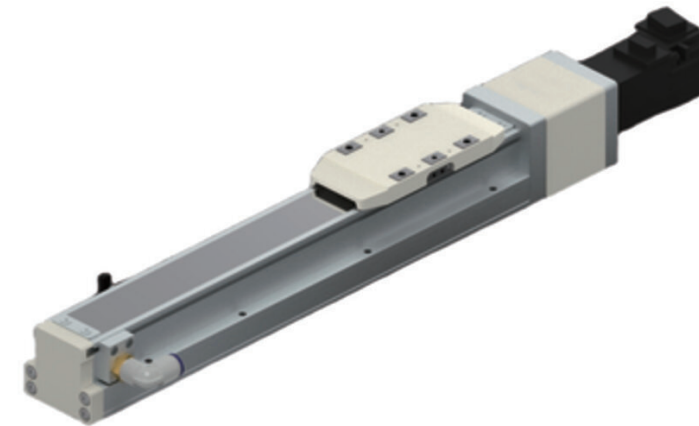
No Mark/No Sensor

A001

Special Order No.

No Mark/No Sensor

Max Static Forces And Torques

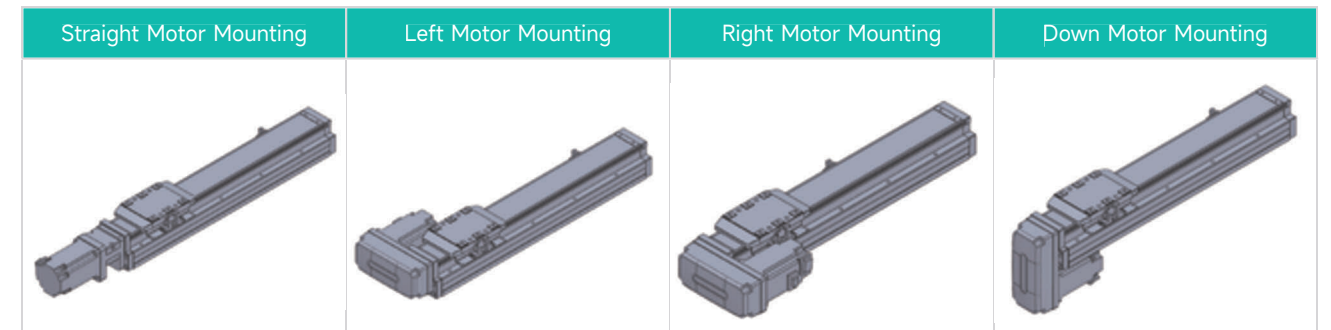


Type	GCC 50
M (x)(N.m)	103
M (y)(N.m)	103
M (z)(N.m)	144

All forces and torques relate to the following:

$$\frac{Mx}{Mx \max.} + \frac{My}{My \max.} + \frac{Mz}{Mz \max.} \leq 1$$

Motor Mounting Position Version

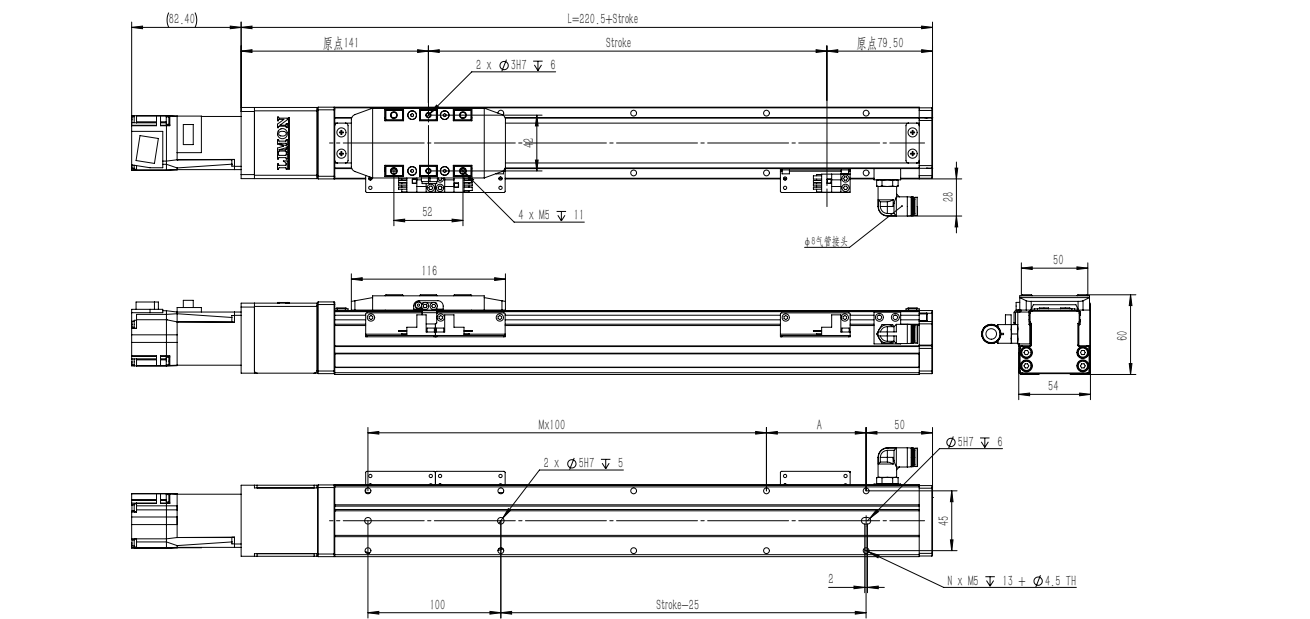


Basic Specification

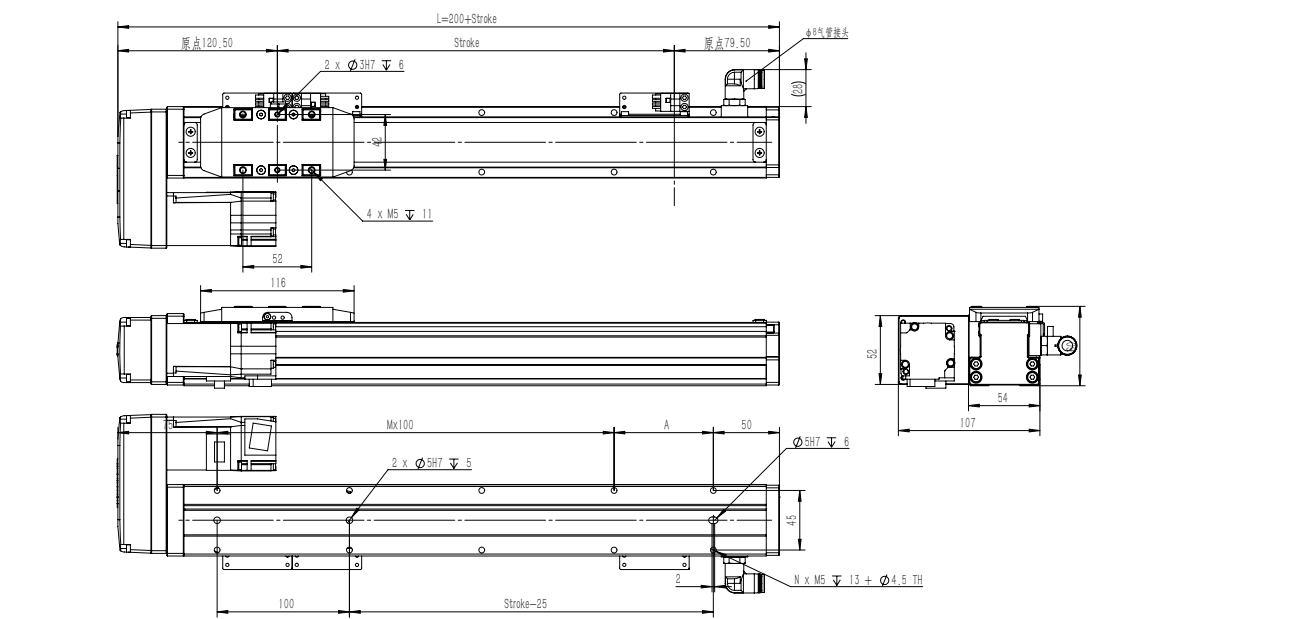
GCC 50				
Technical Parameters	Repetitive Accuracy(mm)	±0.005		
	Ball Screw Lead(mm)	5	10	20
	Maximum Speed(mm/s)	250	500	1000
	Maximum Payload	Horizontal(kg)	30	15
		Vertical(kg)	10	5
	Rated Thrust(N)	341	170	85
Basic Specification	Stroke(mm)	50-800 mm/ 50 Pitch		
	AC Servo Motor Outpu(W)	100		
	Ball Screw Diameter(mm)	C7 Ø12		
	Coupling (mm)	7×8		
	Home Sensor	PM-Y45 (NPN)		

Allowable Overhang

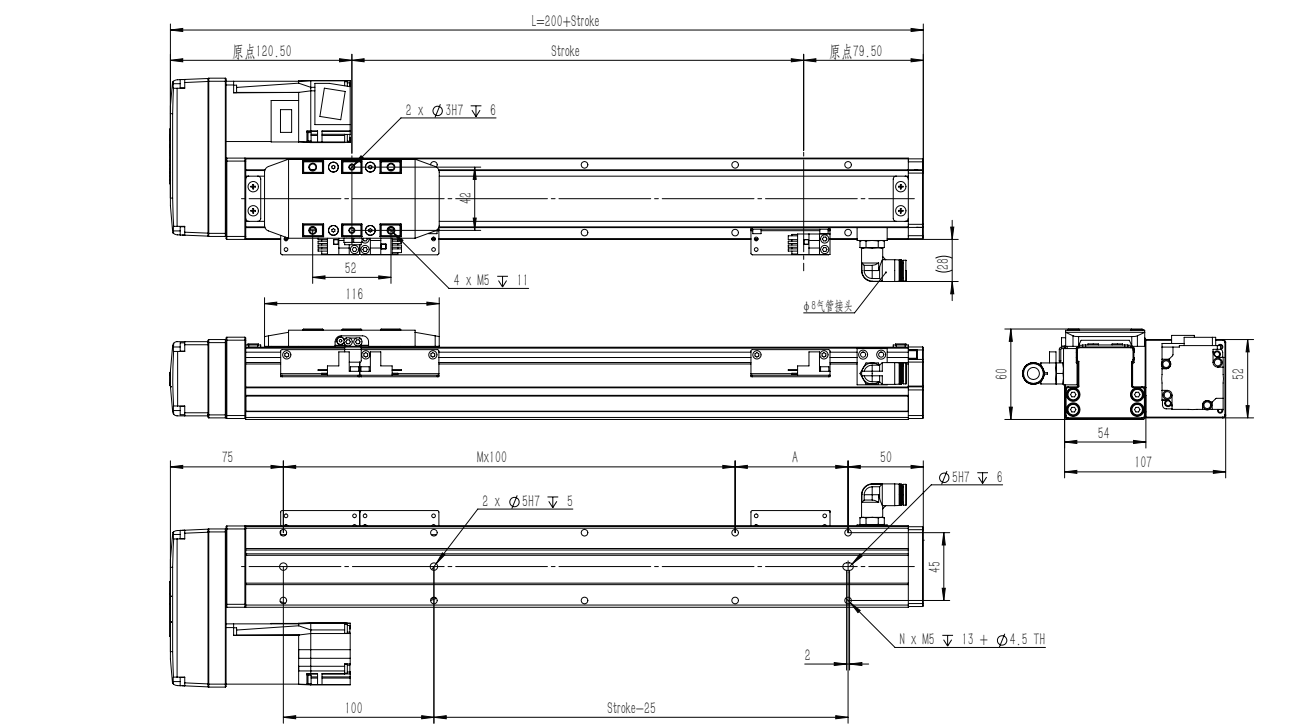
Horizontal Installation					Wall Installation					Vertical Installation				
5 lead	A	B	C		5 lead	A	B	C		5 lead	A	C		
10kg	650	75	100		10kg	100	75	650		6kg	145	145		
20kg	440	32	45		20kg	45	32	420		8kg	110	110		
30kg	270	19	25		30kg	25	19	260		10kg	90	90		
5kg	600	145	185		5kg	180	145	600		1kg	800	800		
10kg	370	70	85		10kg	85	68	370		3kg	260	260		
15kg	250	42	52		15kg	52	42	250		5kg	155	155		
5kg	320	120	130		5kg	130	120	320		1kg	600	600		
8kg	220	70	80		8kg	75	70	220		2kg	300	300		
10kg	175	55	60		10kg	60	55	170		2.5kg	250	250		



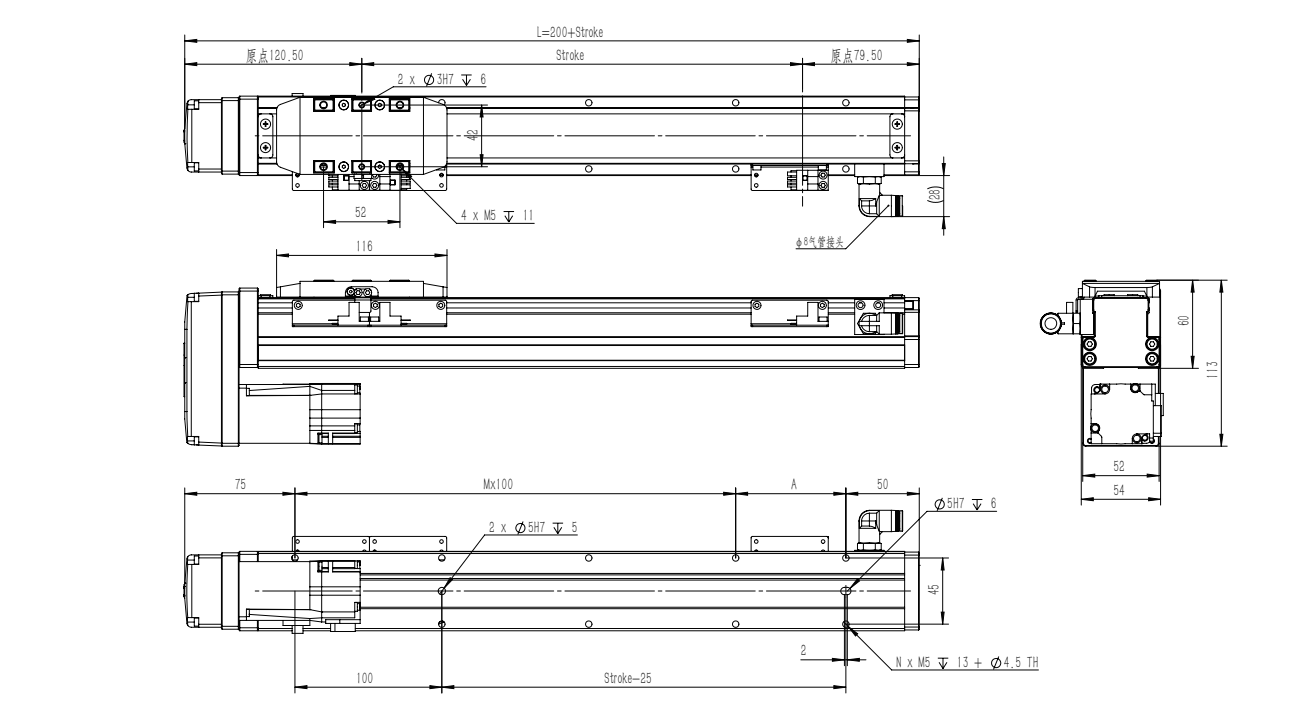
Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight(kg)	0.97	1.16	1.36	1.56	1.75	1.95	2.15	2.34	2.54	2.74	2.93	3.13	3.33	3.52	3.72	3.92



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight(kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight(kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Weight(kg)	1.14	1.33	1.53	1.73	1.92	2.12	2.32	2.51	2.71	2.91	3.1	3.3	3.5	3.69	3.89	4.09

Code

GCC 80

Item NO.

—

L10

Ball Screw Lead

05

10

20

32

—

500

Stroke

50-1100, Gap50

—

MS

Motor Mounting Direction

Straight Motor Mounting

Left Motor Mounting

Right Motor Mounting

Down Motor Mounting

—

M40

Motor Brand、Power Output

M Mitsubishi 20 200W 40 400W

P Panasonic 20 200W 40 400W

—

P3

Photoelectric Sensor

P1:1PC

P2: 2个 2PCS

P3: 3个 3PCS

No Mark/No Sensor

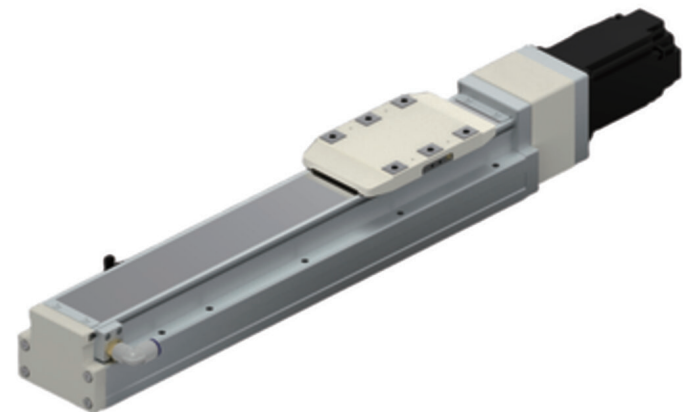
—

A001

Special Order No.

No Mark/No Sensor

Max Static Forces And Torques



Type	GCC 80
M (x)(N.m)	318
M (y)(N.m)	318
M (z)(N.m)	626

All forces and torques relate to the following:

Mx / Mx max. + My / My max. + Mz / Mz max. ≤ 1

Motor Mounting Position Version

Straight Motor Mounting

Left Motor Mounting

Right Motor Mounting

Down Motor Mounting

Basic Specification

GCC 80			
Technical Parameters	Repetitive Accuracy(mm)		±0.005
	Ball Screw Lead(mm)		5 10 20 32
	Maximum Speed(mm/s)		250 500 1000 1600
	Maximum Payload	Horizontal(kg)	50 30 18 13
		Vertical(kg)	15 8 3 2
	Rated Thrust(N)		1388 694 347 217
Basic Specification	Stroke(mm)		50-1100 mm/ 50 Pitch
	AC Servo Motor Outpu(W)		200/400
	Ball Screw Diameter(mm)		C7 Ø16
	Coupling (mm)		10×14
	Home Sensor		PM-Y45(NPN)

Allowable Overhang

Unit: mm

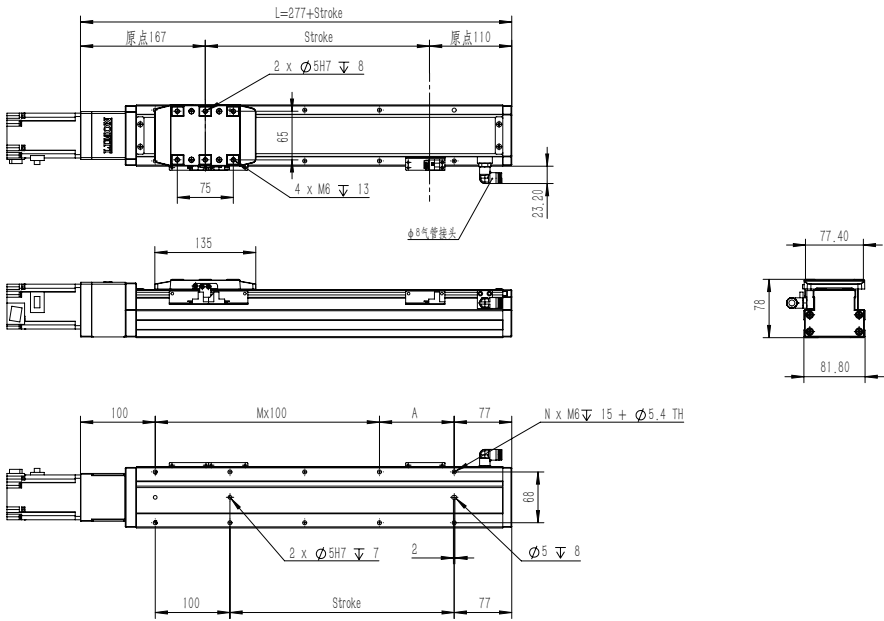
Horizontal Installation	A	B	C
5 lead	20kg 1560	153 237	35kg 890 81 126 50kg 550 53 82
10 lead	10kg 1730	286 416	20kg 839 136 196 30kg 541 85 124 6kg 1213 403 493
20 lead	9kg 800	264 323	18kg 592 194 238

Unit: mm

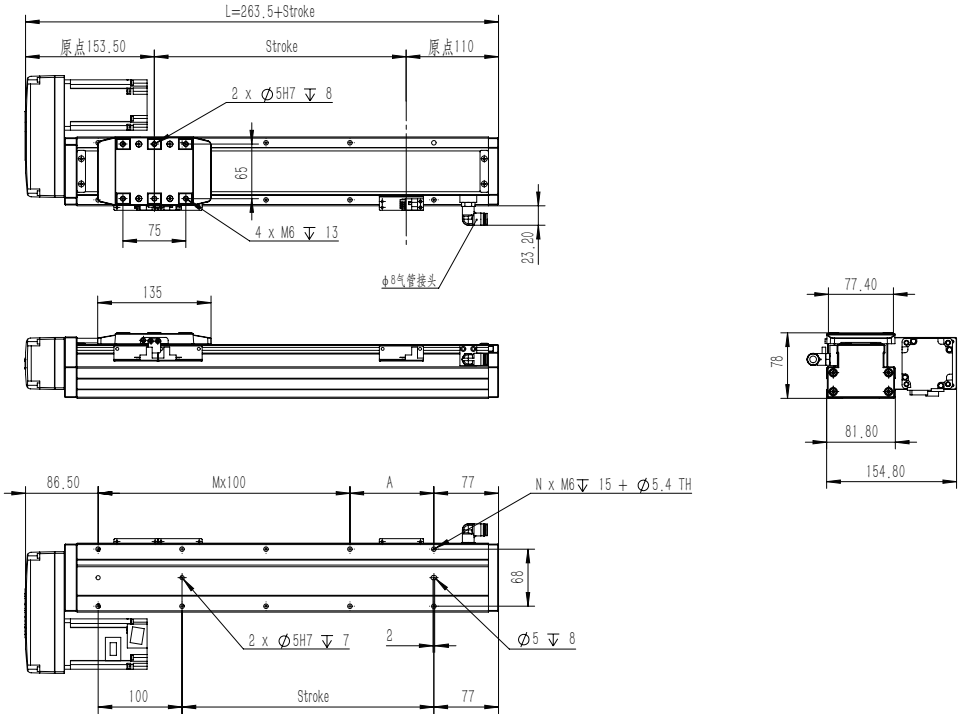
Wall Installation	A	B	C
5 lead	20kg 214	153 1435	35kg 113 81 845 50kg 74 83 506
10 lead	10kg 370	286 1400	20kg 176 136 800 30kg 12 86 495 6kg 444 403 760
20 lead	9kg 292	264 277	18kg 214 194 544

Unit: mm

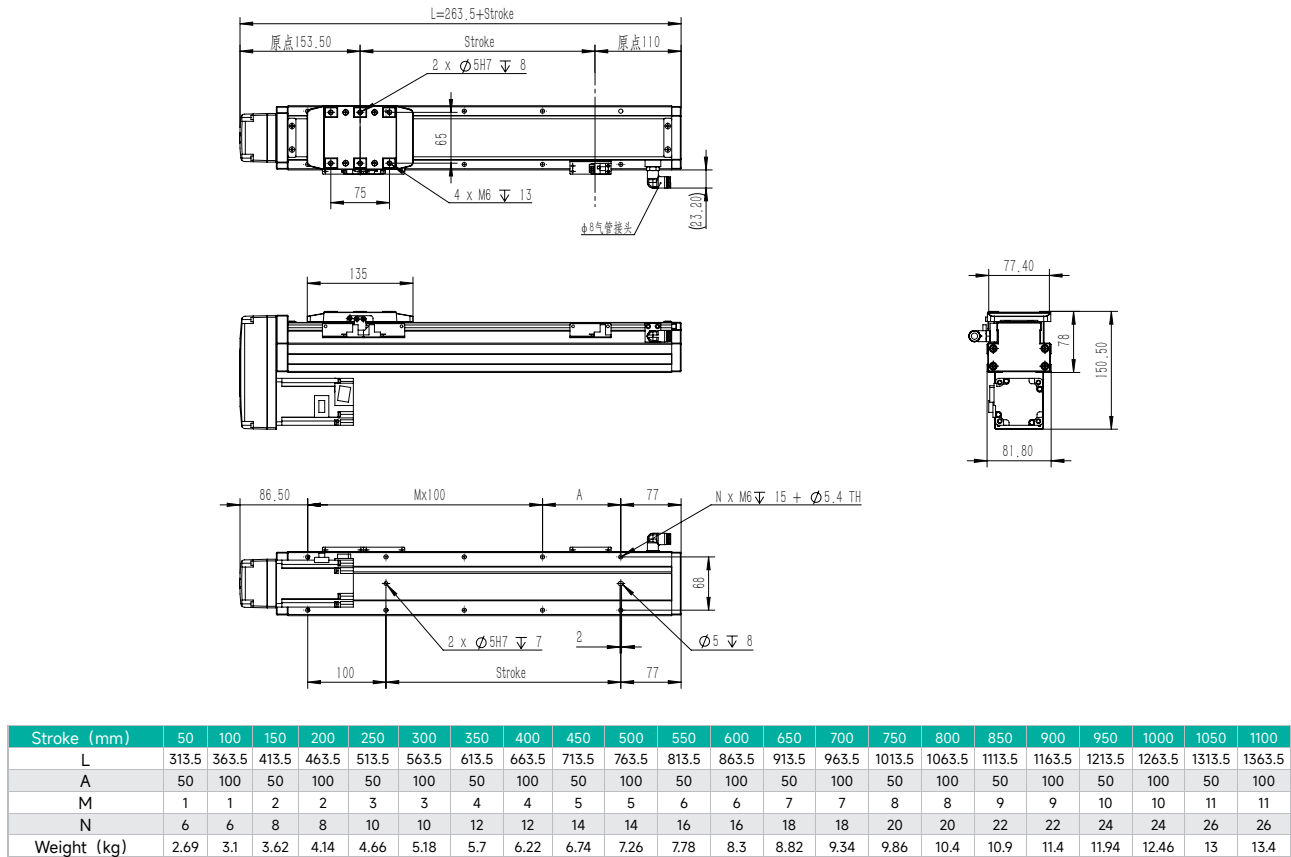
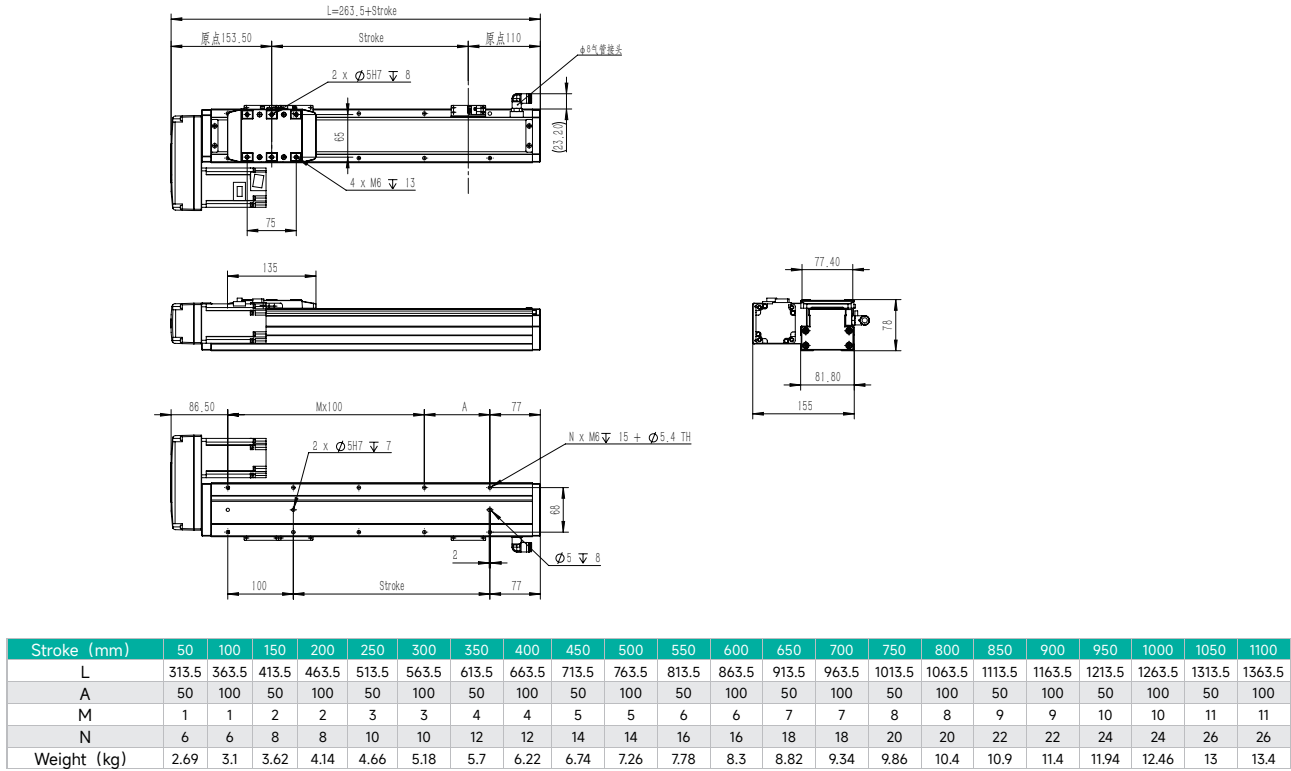
Vertical Installation	A	C
5 lead	10kg 331	331 15kg 220 220 - - -
10 lead	5kg 589	589 8kg 368 368 - - -
20 lead	3kg 935	935 - - -



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	327	377	427	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Weight(kg)	2.68	3.04	3.41	3.77	4.14	4.5	4.87	5.23	5.6	5.96	6.33	6.69	7.06	7.42	7.79	8.15	8.52	8.88	9.25	9.61	9.98	10.4



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
L	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5	763.5	813.5	863.5	913.5	963.5	1013.5	1063.5	1113.5	1163.5	1213.5	1263.5	1313.5	1363.5
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Weight (kg)	2.69	3.1	3.62	4.14	4.66	5.18	5.7	6.22	6.74	7.26	7.78	8.3	8.82	9.34	9.86	10.4	10.9	11.4	11.94	12.46	13	13.4



Code

GCC 120

Item NO.

L10

Ball Screw Lead

05

10

20

32

500

Stroke

50-1250,

Gap50

MS

Motor Mounting Direction

Straight Motor Mounting

Left Motor Mounting

Right Motor Mounting

Down Motor Mounting

M40

Motor Brand, Power Output

M Mitsubishi 20 200W

40 400W

P Panasonic 20 200W

40 400W

P3

Photoelectric Sensor

P1:1PC

P2:2PCS

P3:3PCS

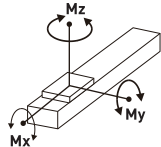
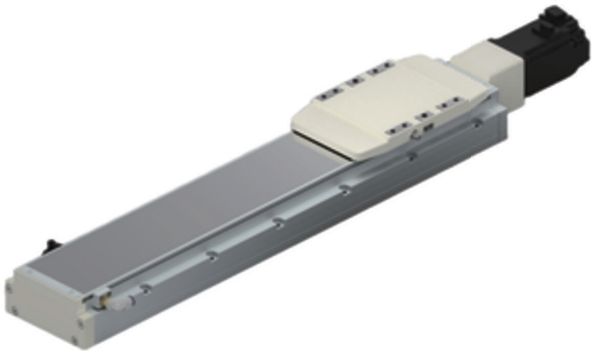
No Mark:No Sensor

A001

Special Order No.

No Mark:No Sensor

Max Static Forces And Torques

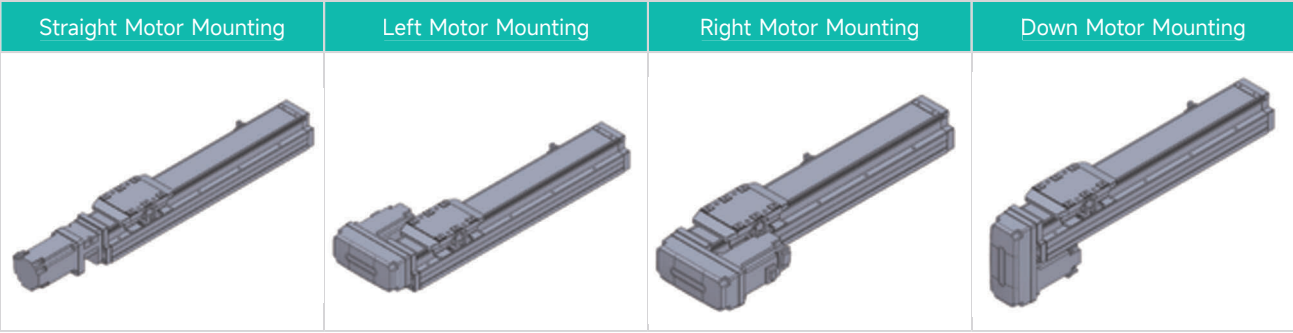


Type	GCC 120
M (x)(N.m)	606
M (y)(N.m)	606
M (z)(N.m)	1168

All forces and torques relate to the following:

$$\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$$

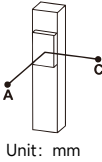
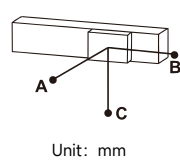
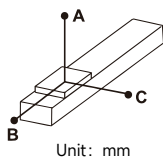
Motor Mounting Position Version



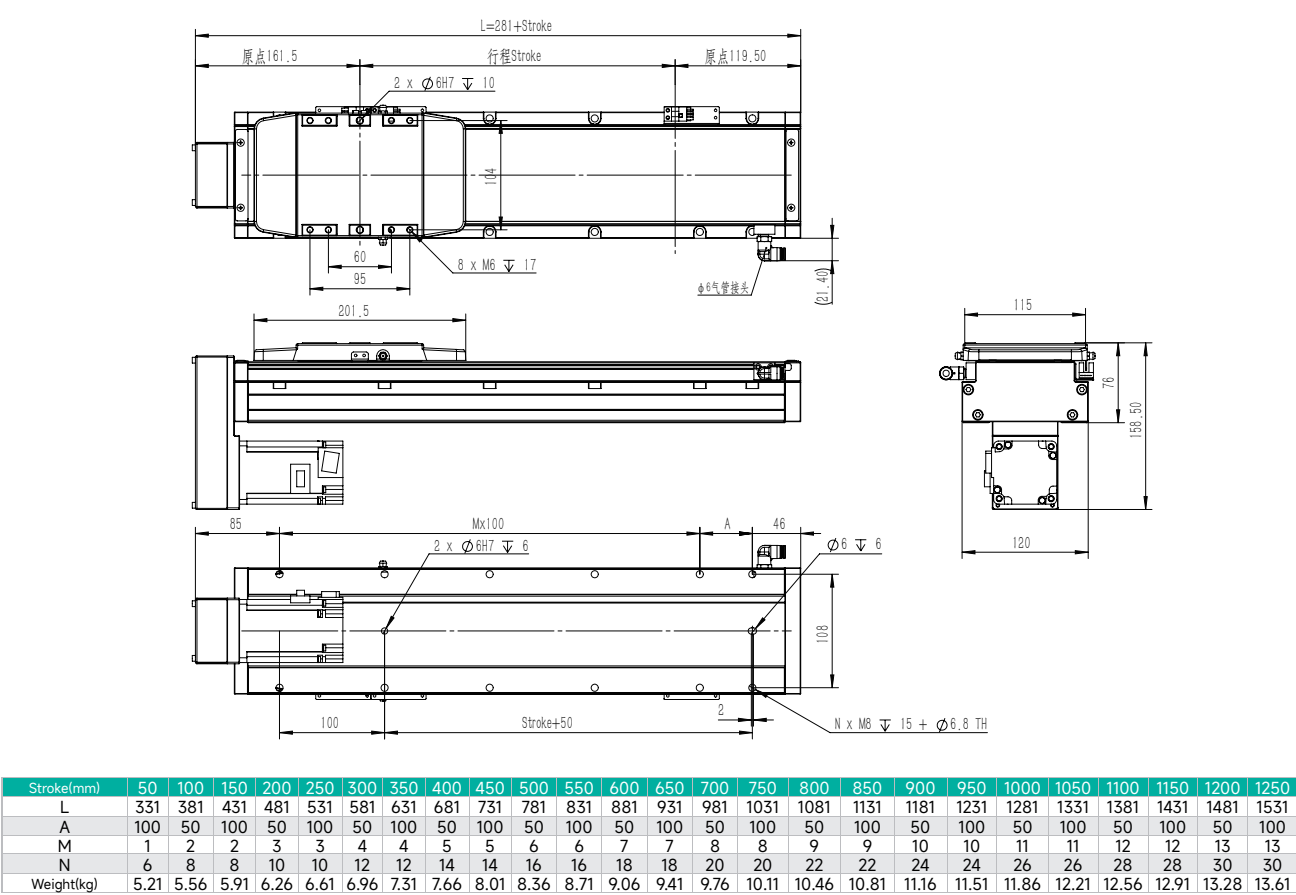
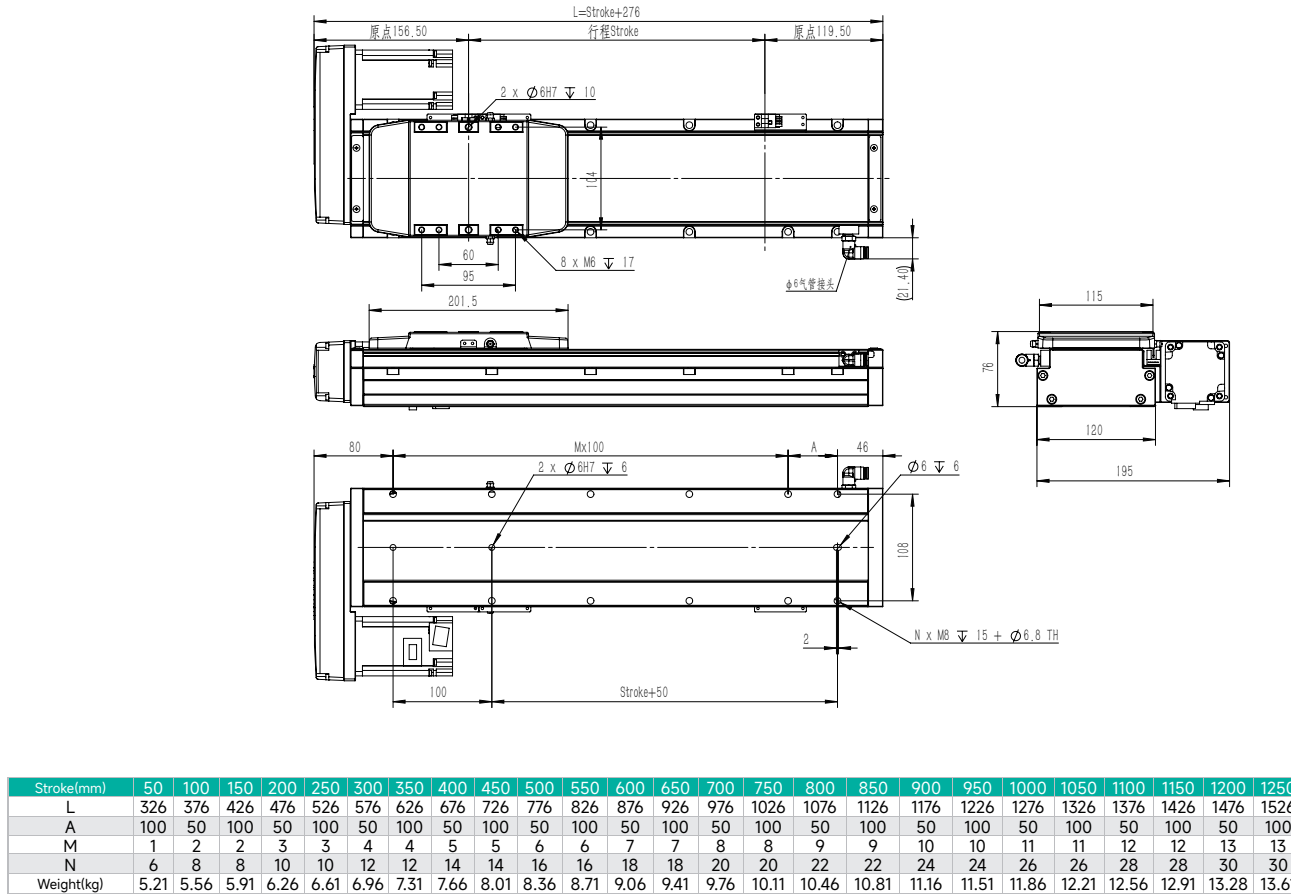
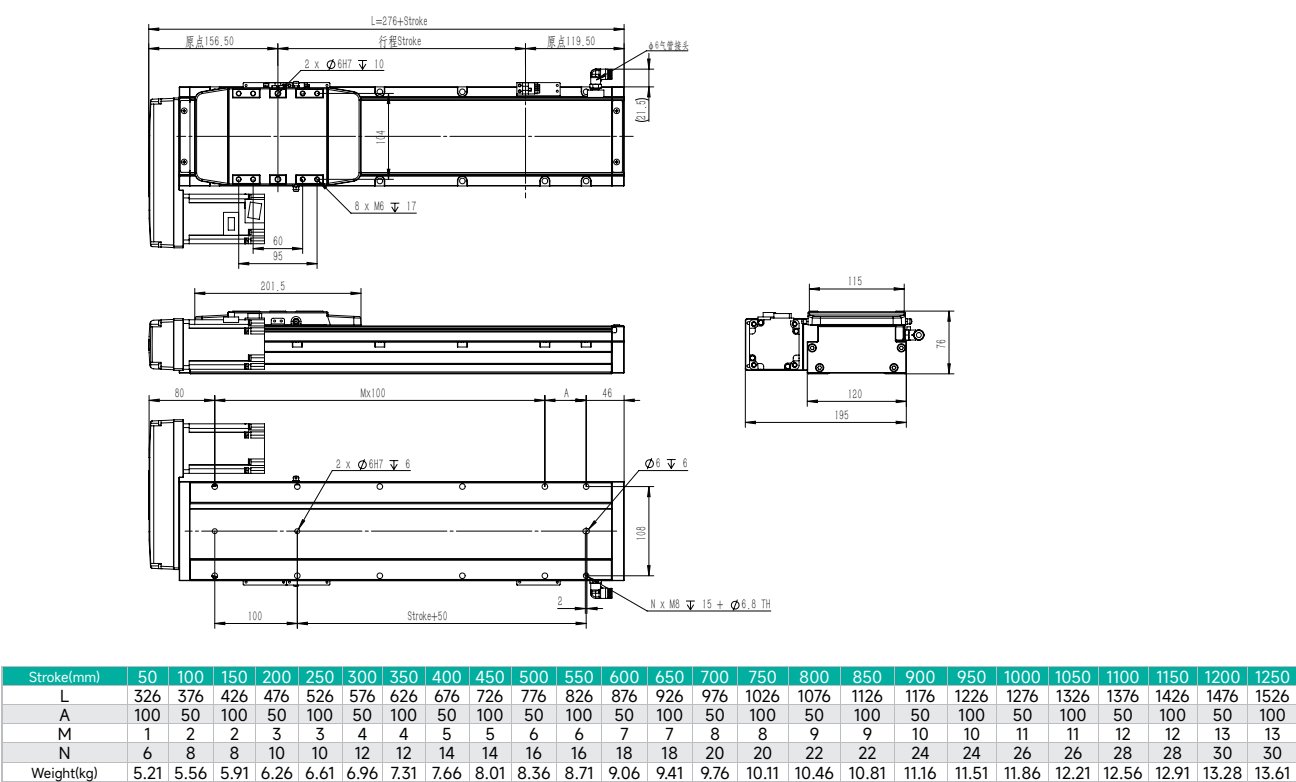
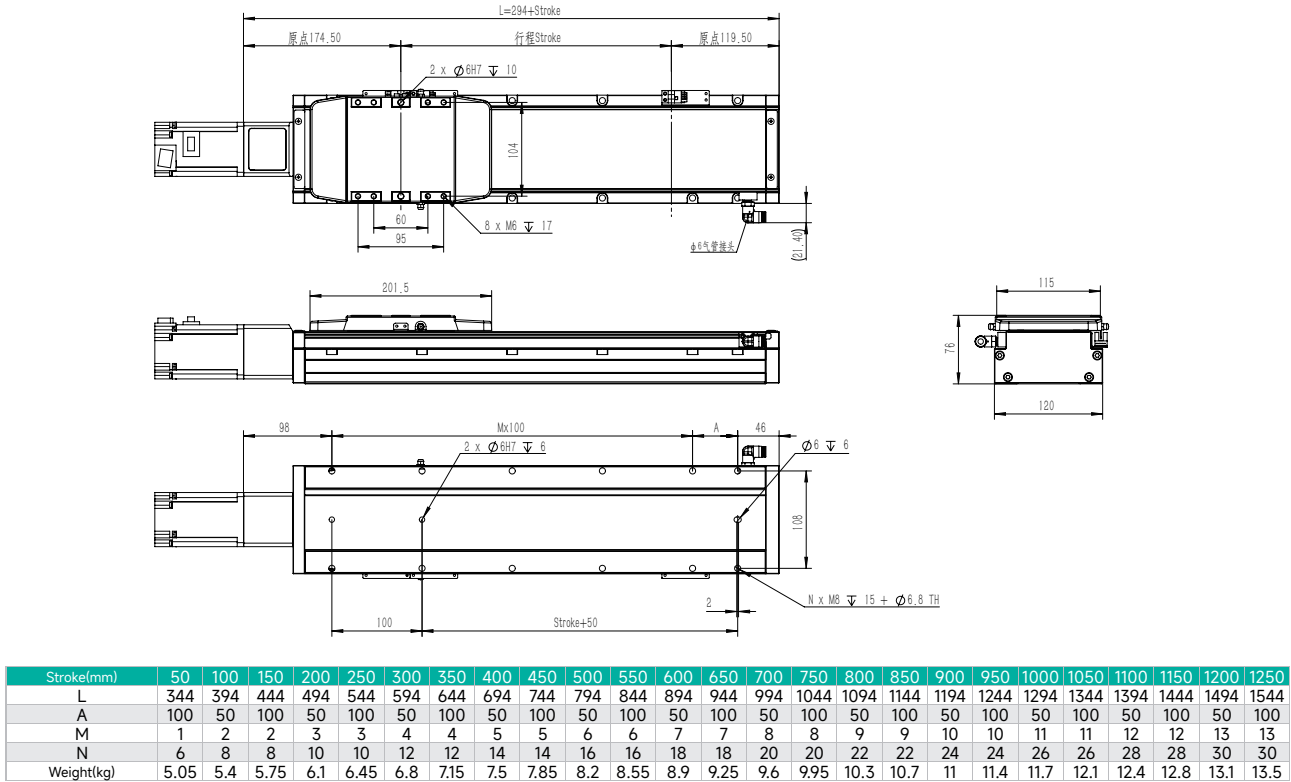
Basic Specification

GCC 120				
Technical Parameters	Repetitive Accuracy(mm)		±0.005	
	Ball Screw Lead (mm)		5	10 20 32
	Maximum Speed (mm/s)		250	500 1000 1600
	Maximum Payload	Horizontal(kg)	110	88 40 30
		Vertical(kg)	33	22 10 8
	Rated Thrust(N)		1388	694 347 218
Basic Specification	Stroke(mm)		50-1250 mm/ 50 Pitch	
	AC Servo Motor Outpu(W)		200/400	
	Ball Screw Diameter(mm)		C7 Ø16	
	Coupling (mm)		10×14	
	Home Sensor		PM-Y45 (NPN)	

Allowable Overhang



Horizontal Installation				Wall Installation				Vertical Installation			
5 lead	A	B	C	5 lead	A	B	C	5 lead	A	C	
60kg	2850	250	340	55kg	280	280	3300	15kg	1200	1200	
80kg	2100	180	250	75kg	200	195	2400	22kg	820	820	
110kg	1500	120	170	110kg	130	125	1550	33kg	550	550	
30kg	2850	490	600	35kg	400	410	2500	10kg	1600	1600	
50kg	1700	280	350	55kg	245	250	1550	14kg	1150	1150	
88kg	950	140	190	88kg	150	150	950	22kg	730	730	
10kg	3400	1250	1400	12kg	900	1070	3000	7kg	1800	1800	
22kg	1650	550	620	20kg	550	630	1800	10kg	1250	1250	
40kg	900	290	330	40kg	260	300	900	-	-	-	
15kg	1100	570	550	15kg	440	570	1050	5kg	1600	1600	
25kg	620	330	320	30kg	210	270	520	8kg	1000	1000	
30kg	520	270	260	-	-	-	-	-	-	-	

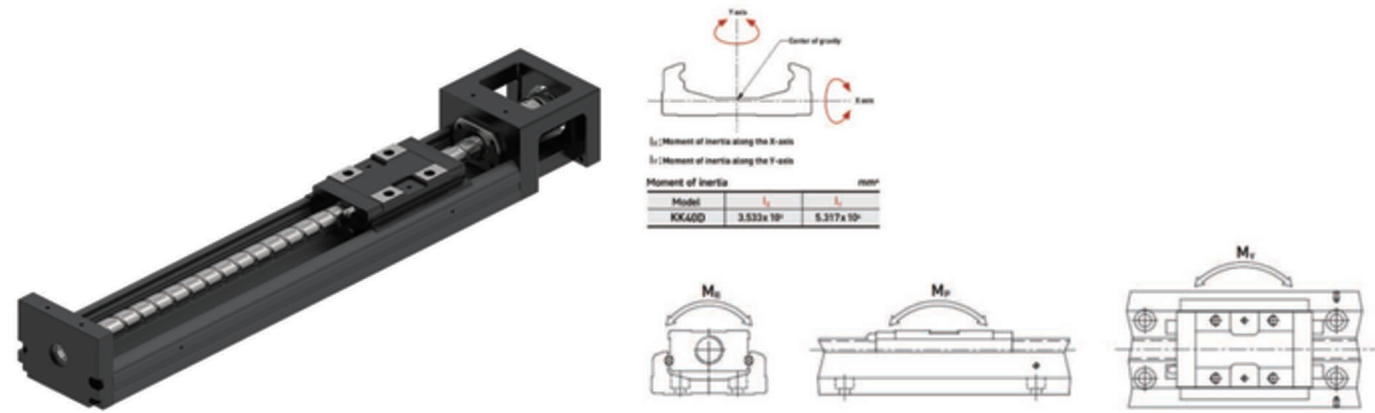


KK series module



Code

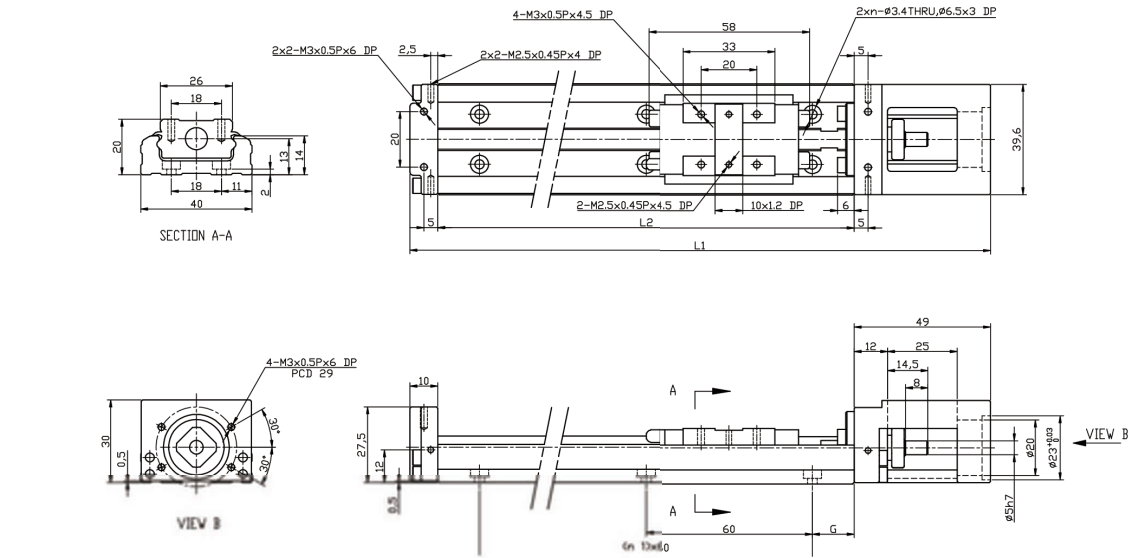
KK40D	05	P	—	200	A	2	—	F0	C	S0
Item NO.	Travel	Accuracy Grade		Track Length	Slide Types	Slide Number		Motor Connection	Protecting Cover	Limit Switch
	01	Precision Class		100	Standard Type	1		F0/F1/F2/H0	Aluminum Cover	S0: Extreme orbit
	05	Normal Class		150	Light Load Type	2		Note: Refer to catalogue P53	Telescopic cover	S1: Extreme orbit+ 3 Photoelectric devices
				200					None: no cover	



Basic Specification

Code		Ball Screw				Linear Guide																			
		Nominal Outside Diameter (mm)	lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Permissible Static Moment																			
						Basic Dynamic Rated Load (N)		Basic Static Rated Load (N)		Pitching				M _p (N·m)		Deflection				M _v (N·m)		Rolling M _h (N·m)			
										Slide Block A	Slide Block S	Slide Block A	Slide Block S	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2
KK40D01	P	8	1	1243	2794	3920	/	6468	/	33	182	/	/	33	182	/	/	81	162	/	/				
	C			1130	2540																				
KK40D05	P	8	5	1177	2145																				
	C			1070	1950																				

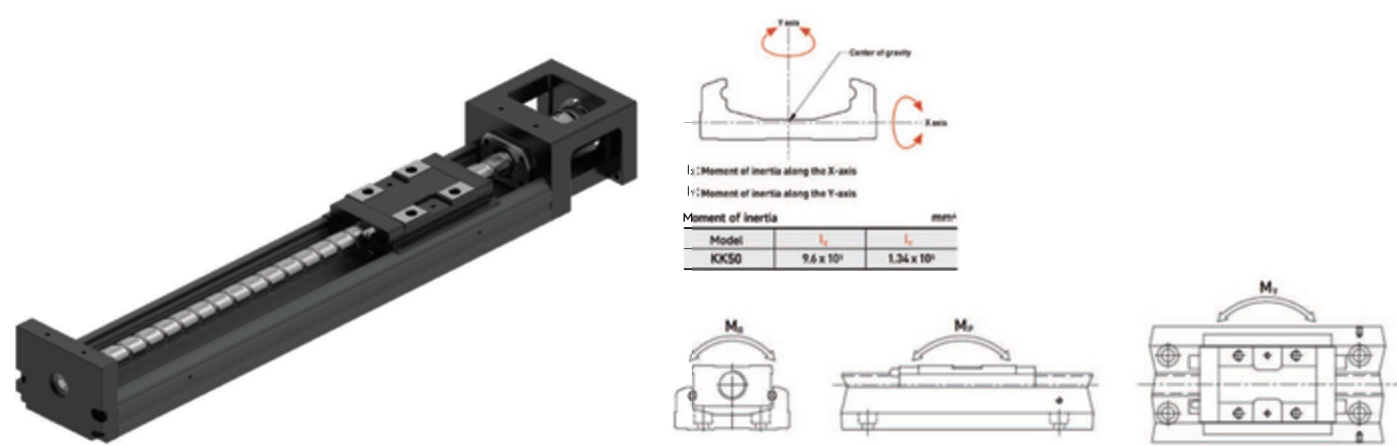
Code	Length of Rail (mm)	Repetitive Accuracy (mm)		Traveling Parallelism (mm)		Max.Driving Torque (N·cm)	
		P	C	P	C	P	C
KK40D	100						
	150	±0.003	±0.01	0.01	/	1.2	0.8
	200						



Rail length L2(mm)	Overall length L1 (mm)	Maximum stroke(mm)		G(mm)	n	Weight(kg)	
		A1 carriage	A2 carriage			A1 carriage	A2 carriage
100	159	36	-	20	2	0.48	-
150	209	86	34	15	3	0.6	0.67
200	259	136	84	40	3	0.72	0.79

Code

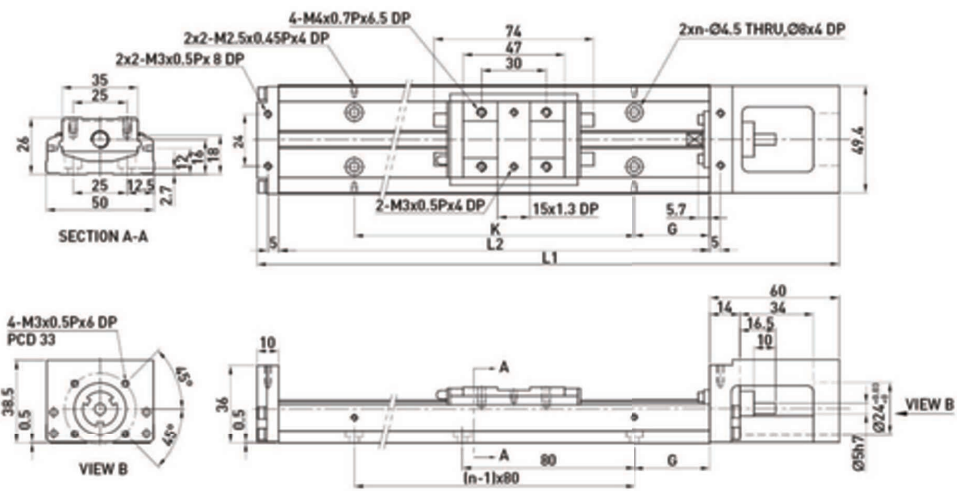
KK50	02	P	—	200	A	2	—	F0	C	S0
Item NO.	Travel	Accuracy Grade		Track Length	Slide Types	Slide Number		Motor Connection	Protecting Cover	Limit Switch
	02	Precision Class		150	Standard Type	1		F0/F1/F2/F3 H0	Aluminum Cover	S0: Extreme orbit
	06	Normal Class		200	Light Load Type	2		Note: Refer to catalogue P54	Telescopic cover	S1: Extreme orbit+ 3 Photoelectric devices
	12			250					None: no cover	
				300						



Basic Specification

Code		Ball Screw				Linear Guide															
		Nominal Outside Diameter (mm)	lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Basic Dynamic Rated Load (N)		Basic Static Rated Load (N)		Permissible Static Moment											
										Pitching				M _p (N·m)		Deflection		M _v (N·m)		Rolling M _r (N·m)	
						Slide Block A	Slide Block S	Slide Block A	Slide Block S	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2
KK 5002	P	8	2	2136	3489	8007	/	12916	/	116	545	/	/	116	545	/	/	222	444	/	/
	C			1813	2910																
KK 5006	P	10	6	2670	5190																
KK 5012	P	10	12	1860	3490																

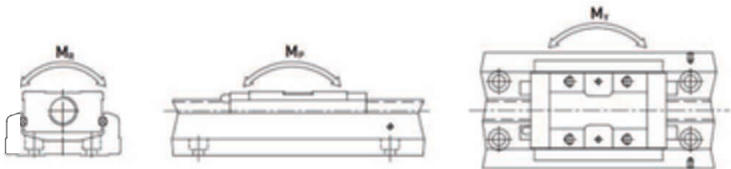
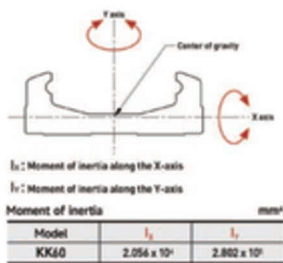
Code	Length of Rail (mm)	Repetitive Accuracy(mm)		Traveling Parallelism(mm)		Max.Driving Torque (N·cm)	
		P	C	P	C	P	C
KK 50	150						
	200	±0.003	±0.005	0.010	/	4	2
	250						
	300						



Rail length L2(mm)	Overall length L1 (mm)	Maximum stroke(mm)		G(mm)	K(mm)	n	Weight(kg)	
		A1 carriage	A2 carriage				A1 carriage	A2 carriage
150	220	70	-	35	80	2	1	-
200	270	120	55	20	160	3	1.2	1.4
250	320	170	105	45	160	3	1.4	1.6
300	370	220	155	30	240	4	1.6	1.8

Code

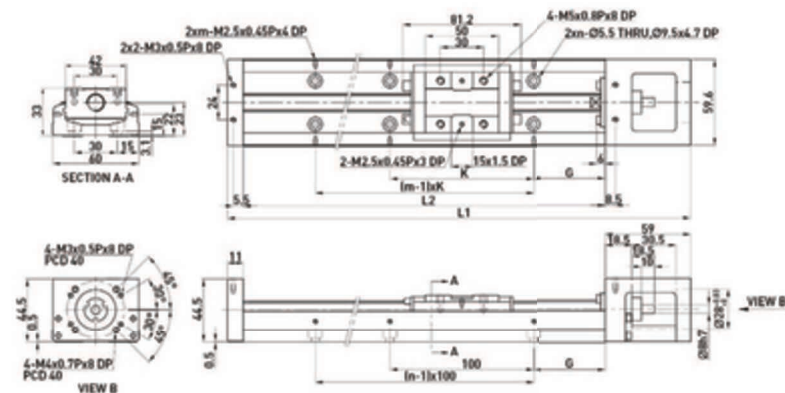
KK60D	05	P	—	200	A	2	—	F0	C	S0
Item NO.	Travel	Accuracy Grade		Track Length	Slide Types	Slide Number		Motor Connection	Protecting Cover	Limit Switch
	05	Precision Class		150	Standard Type	1		F0 ~ F5	Aluminum Cover	S0: Extreme orbit
	10	Normal Class		200	Light Load Type	2		H0	Telescopic cover	S1: Extreme orbit+ 3 Photoelectric devices
				300				T1/T2/T5	None: no cover	
				400						
				500						
				600						



Basic Specification

Code		Ball Screw				Linear Guide																	
		Nominal Outside Diameter (mm)	lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Basic Dynamic Rated Load (N)		Basic Static Rated Load (N)		Permissible Static Moment													
										Pitching				M _p (N·m)		Deflection				M _v (N·m)		Rolling	
						Slide Block A	Slide Block S	Slide Block A	Slide Block S	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2		
KK 60D05	P	12	5	3744	6234	13230	/	21462	/	152	760	/	/	152	760	/	/	419	838	/	/		
KK 60D10	P	12	10	2410	3743	13230	/	21462	/	152	760	/	/	152	760	/	/	419	838	/	/		
	C			3377	5625																		
	C			2107	3234																		

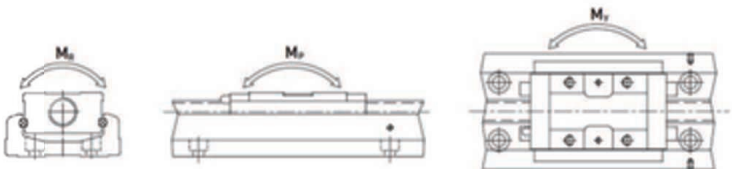
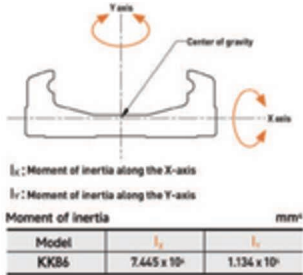
Code	Length of Rail (mm)	Repetitive Accuracy(mm)		Traveling Parallelism(mm)		Max.Driving Torque (N·cm)	
		P	C	P	C	P	C
KK60D	150						
	200						
	300	±0.003	±0.005	0.010	/	15	7
	400						
	500						
	600	±0.003	±0.005	0.015	/	15	7



Rail length L2(mm)	Overall length L1(mm)	Maximum stroke(mm)		G(mm)	K(mm)	n	m	Weight(kg)	
		A1 carriage	A2 carriage					A1 carriage	A2 carriage
150	220	40	-	25	100	2	2	1.5	-
200	270	110	-	50	100	2	2	1.8	-
300	370	210	135	50	200	3	2	2.4	2.7
400	470	310	235	50	100	4	4	3	3.3
500	570	410	335	50	200	5	3	3.6	3.9
600	670	510	435	50	100	6	6	4.2	4.6

Code

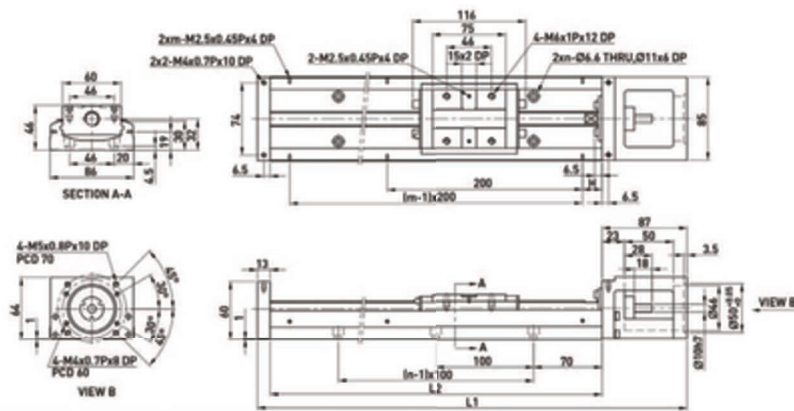
KK86D	10	P	—	340	A	2	—	F0	C	S0
Item NO.	Travel	Accuracy Grade		Track Length	Slide Types	Slide Number		Motor Connection	Protecting Cover	Limit Switch
	10	Precision Class		340	Standard Type	1		F0 ~ F6	Aluminum Cover	S0: Extreme orbit
	20	Normal Class		440	Light Load Type	2		H0	Telescopic cover	S1: Extreme orbit+ 3 Photoelectric devices
				540				T0/T1/T6	None: no cover	
				640						
				740						
				940						



Basic Specification

Code	Ball Screw				Linear Guide																		
	Nominal Outside Diameter (mm)	lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Permissible Static Moment																		
					Pitching								Deflection				Rolling						
					M _p (N·m)		M _v (N·m)		M _r (N·m)		M _p (N·m)		M _v (N·m)		M _r (N·m)								
Slide Block A		Slide Block S		Slide Block A		Slide Block S		Slide Block A1		Slide Block A2		Slide Block S1		Slide Block S2		Slide Block A1		Slide Block A2		Slide Block S1		Slide Block S2	
KK 86D10	P	15	10	7144	12642	31458	/	50764	/	622	3050	/	/	622	3050	/	/	1507	3014	/	/		
	C			6429	11387																		
KK 86D20	P	15	20	4645	7655	31458	/	50764	/	622	3050	/	/	622	3050	/	/	1507	3014	/	/		
	C			4175	6889																		

Code	Length of Rail (mm)	Repetitive Accuracy(mm)		Traveling Parallelism(mm)		Max.Driving Torque (N·cm)	
		P	C	P	C	P	C
KK 86D	340						
	440						
	540	±0.003	±0.005	0.015	/	15	10
	640						
	740						
	940	±0.003	±0.005	0.020	/	17	10
				0.030	/	25	10



Rail length L2(mm)	Overall length L1(mm)	Maximum stroke(mm)		H(mm)	n	m	Weight(kg)	
		A1 carriage	A2 carriage				A1 carriage	A2 carriage
340	440	210	100	70	3	2	5.7	6.5
440	540	310	200	20	4	3	6.9	7.7
540	640	410	300	70	5	3	8.0	8.8
640	740	510	400	20	6	4	9.2	10.0
740	840	610	500	70	7	4	10.4	11.2
940	1040	810	700	70	9	5	11.4	12.4

Code

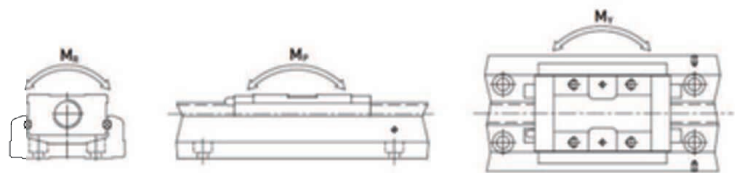
KK100	20	P	980	A	2	F0	C	S0
Item NO.	Travel	Accuracy Grade	Track Length	Slide Types	Slide Number	Motor Connection	Protecting Cover	Limit Switch
	20	Precision Class	980	Standard Type	1	F0 ~ F5	Aluminum Cover	S0: Extreme orbit
		Normal Class	1080		2	H0	Telescopic cover	S1: Extreme orbit+ 3 Photoelectric devices
			1180					
			1280					
			1380					

Note:
Refer to catalogue P38



Model Moment of Inertia mm²

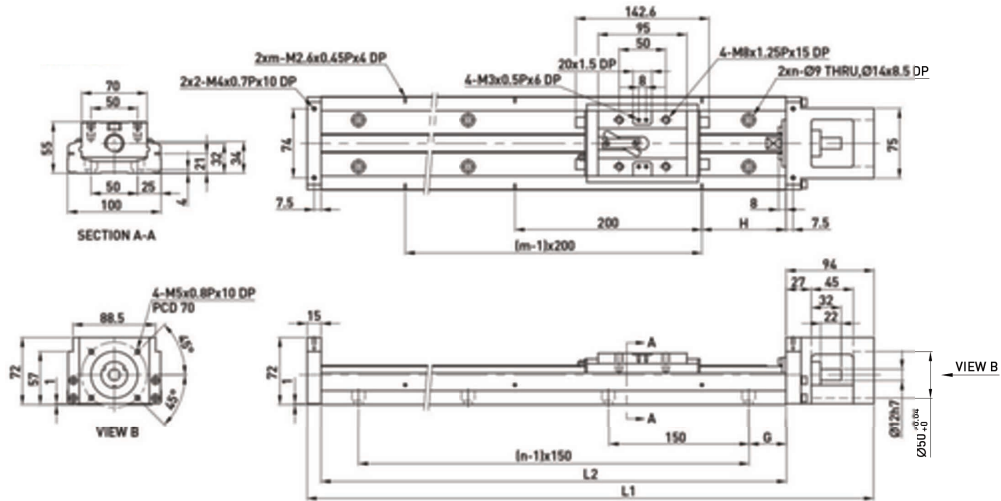
Model	I _x	I _y
KK100	2.054 x 10 ⁴	2.882 x 10 ⁴



Basic Specification

Code		Ball Screw				Linear Guide															
		Nominal Outside Diameter (mm)	lead (mm)	Basic Dynamic Rated Load (N)	Basic Static Rated Load (N)	Basic Dynamic Rated Load (N)		Basic Static Rated Load (N)		Permissible Static Moment											
										Pitching M_p (N·m)				Deflection M_v (N·m)				Rolling M_R (N·m)			
						Slide Block A	Slide Block S	Slide Block A	Slide Block S	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2	Slide Block A1	Slide Block A2	Slide Block S1	Slide Block S2
KK 10020	P C	20	20	7046 4785	12544 9163	39200	/	63406	/	960	4763	/	/	960	4763	/	/	2205	4410	/	/

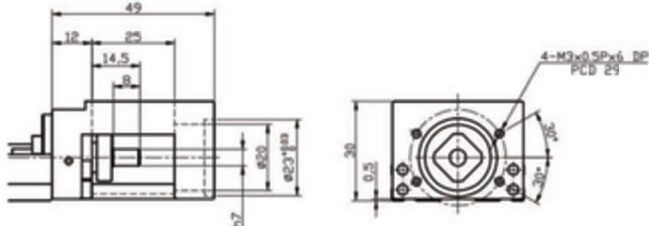
Code	Length of Rail (mm)	Repetitive Accuracy(mm)		Traveling Parallelism(mm)		Max.Driving Torque (N·cm)	
		P	C	P	C	P	C
KK100	980						
	1080	±0.005	±0.01	0.025	/	17	12
	1180	±0.005	±0.01	0.03	/	20	12
	1280	±0.005		0.035	/	23	
	1380	±0.005	±0.01	0.04	/	25	15



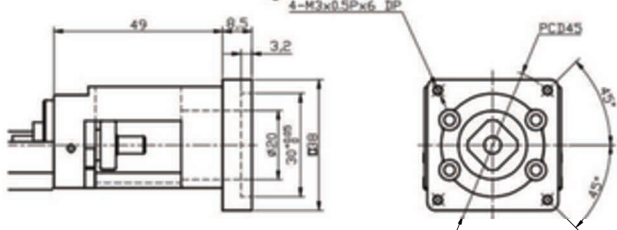
Rail length L2(mm)	Overall length L1(mm)	Maximum stroke(mm)		G(mm)	H(mm)	n	m	Weight(kg)	
		A1 carriage	A2 carriage					A1 carriage	A2 carriage
980	1089	828	700	40	90	7	5	18.6	20.3
1080	1189	928	800	15	40	8	6	20.3	22.0
1180	1289	1028	900	65	90	8	6	22.0	23.7
1280	1389	1128	1000	40	40	9	7	23.6	25.3
1380	1489	1228	1100	15	90	10	7	25.3	27.0

KK 40D

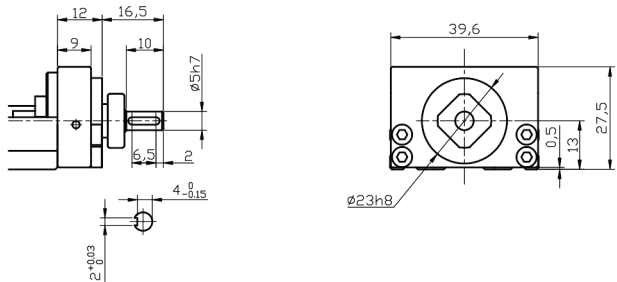
Motor Mount F0



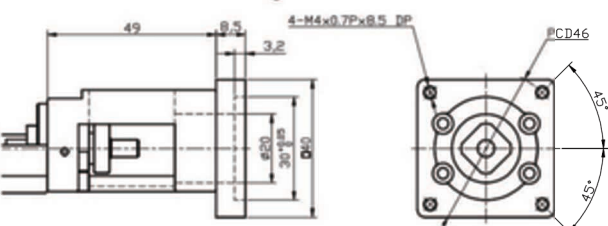
Motor Connection Flange F2



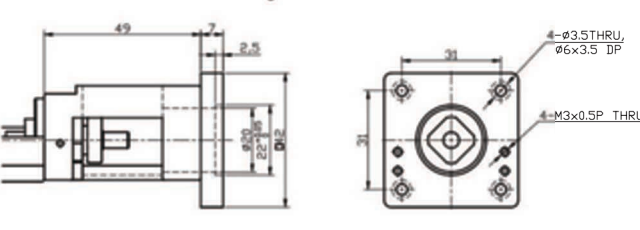
Adapter Mounting Base H0



Motor Connection Flange F1

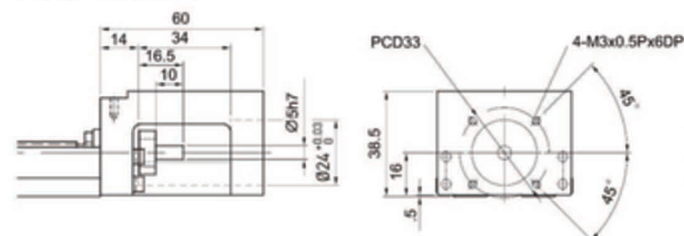


Motor Connection Flange F3

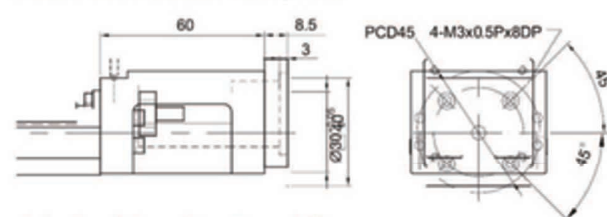


KK 50

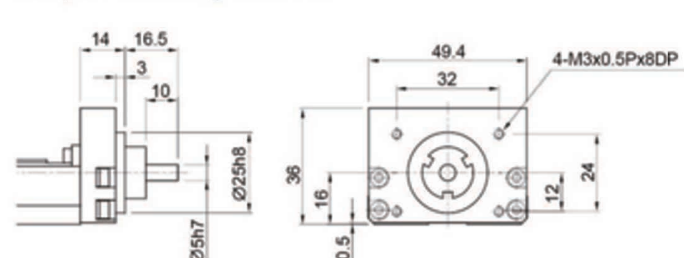
Motor Mount F0



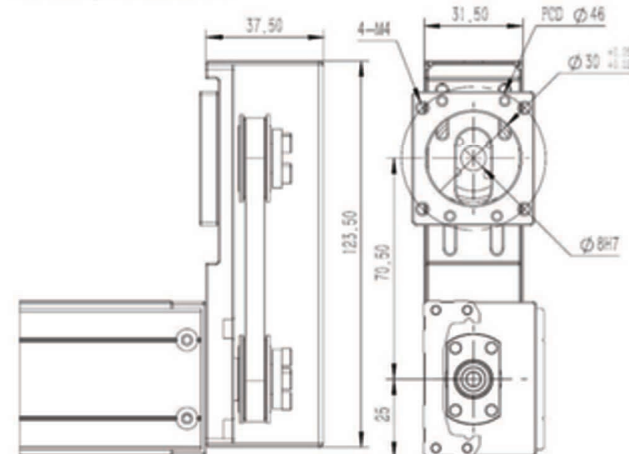
Motor Connection Flange F2



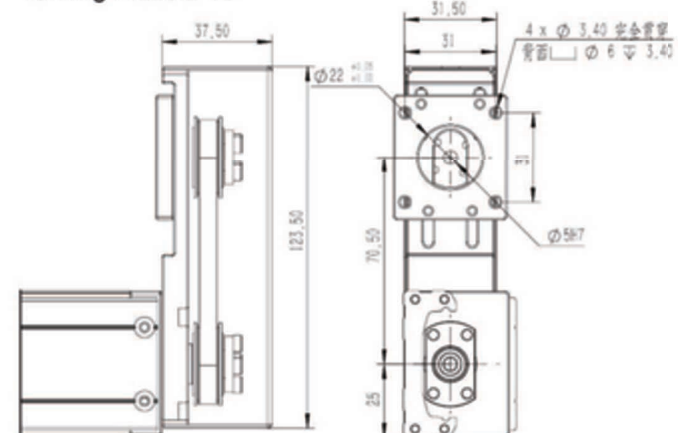
Adapter Mounting Base H0



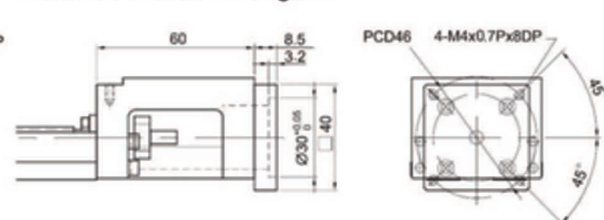
Turning Module T1



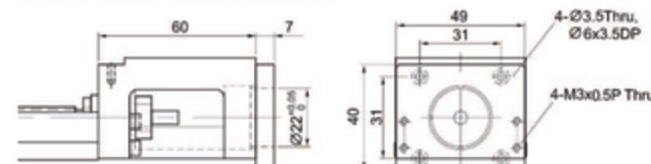
Turning Module T3



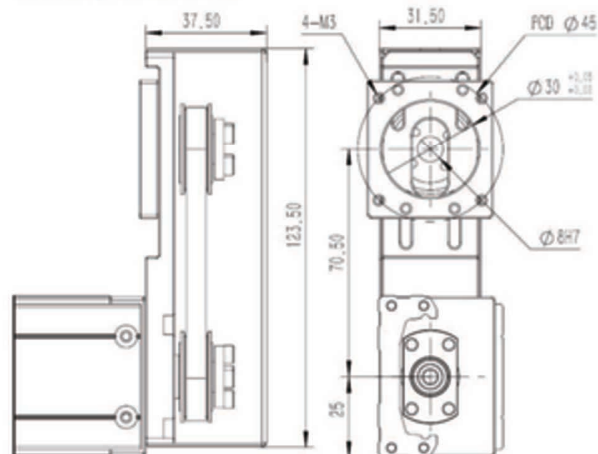
Motor Connection Flange F1



Motor Connection Flange F3

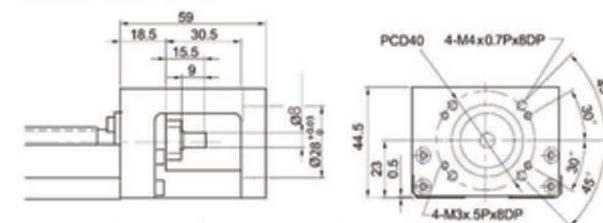


Turning Module T2

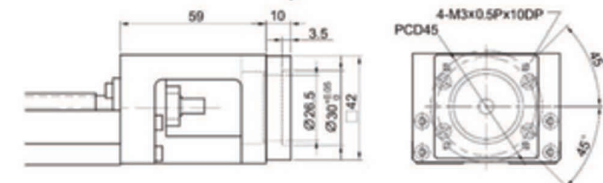


KK 60D

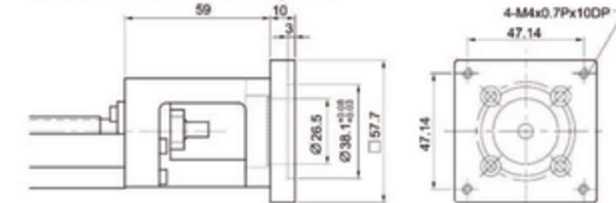
Motor Mount F0



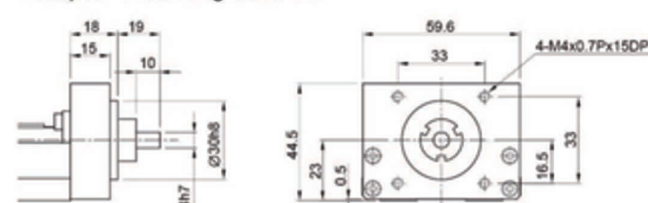
Motor Connection Flange F2



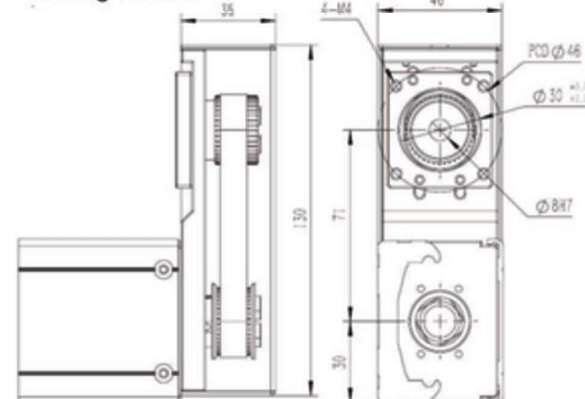
Motor Connection Flange F4



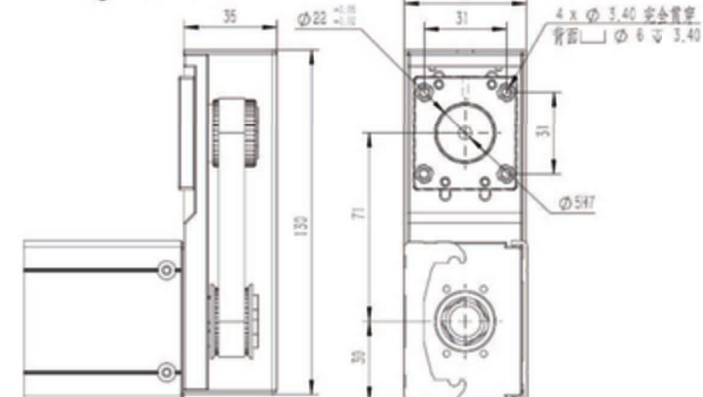
Adapter Mounting Base H0



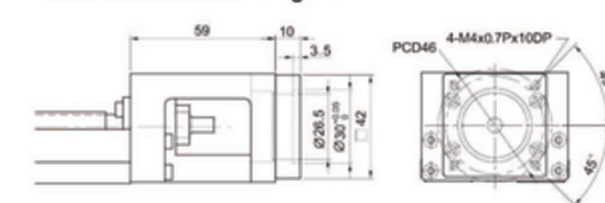
Turning Module T1



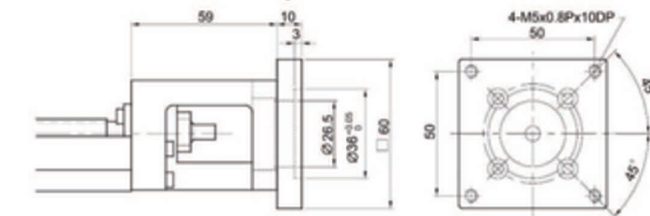
Turning Module T5



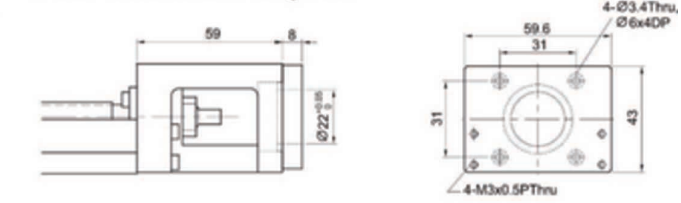
Motor Connection Flange F1



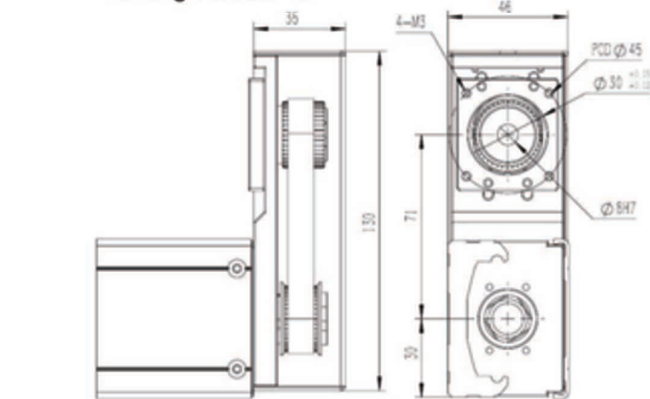
Motor Connection Flange F3



Motor Connection Flange F5

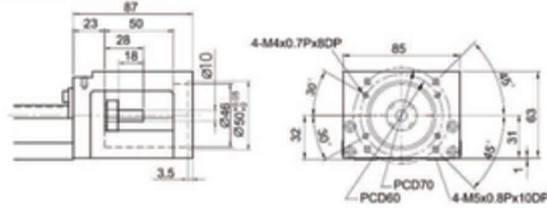


Turning Module T2

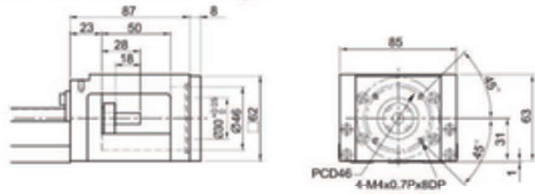


KK 86D

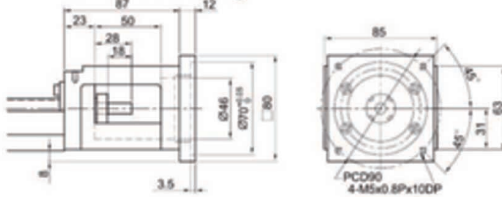
Motor Mount F0



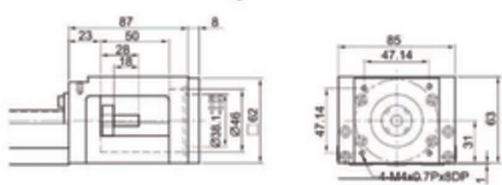
Motor Connection Flange F2



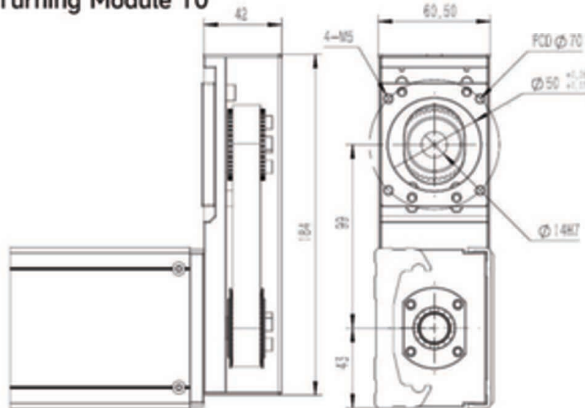
Motor Connection Flange F4



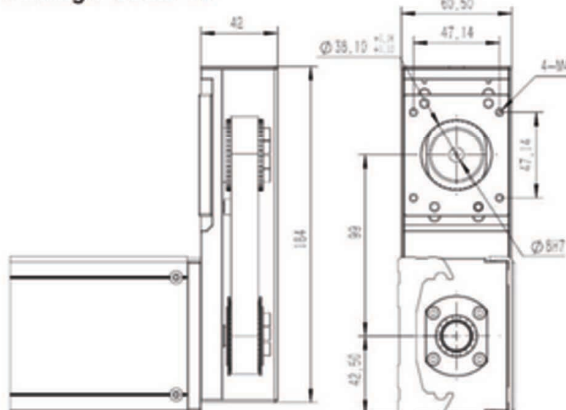
Motor Connection Flange F6



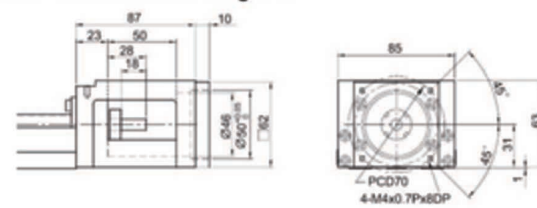
Turning Module T0



Turning Module T6



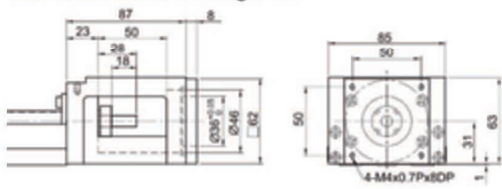
Motor Connection Flange F1



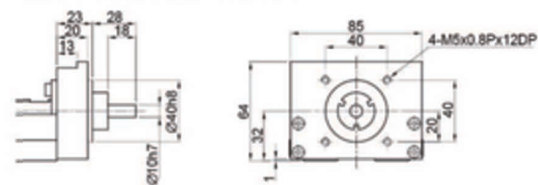
Motor Connection Flange F3



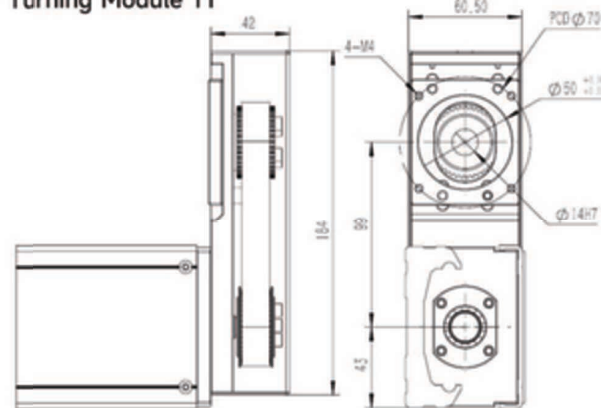
Motor Connection Flange F5



Adapter Mounting Base H0

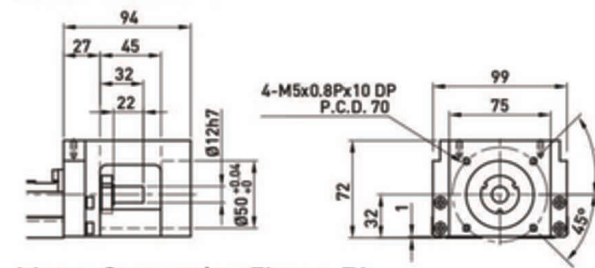


Turning Module T1

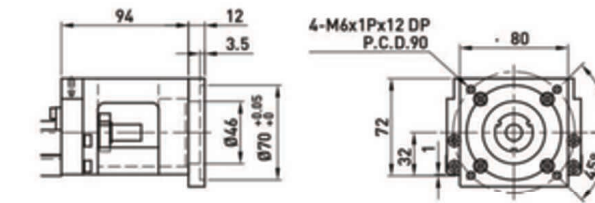


KK 100

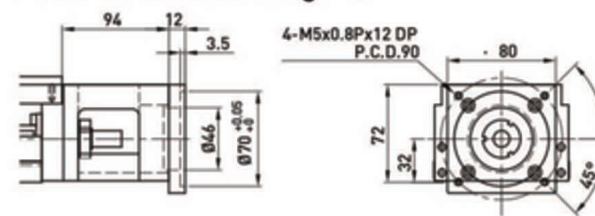
Motor Mount F0



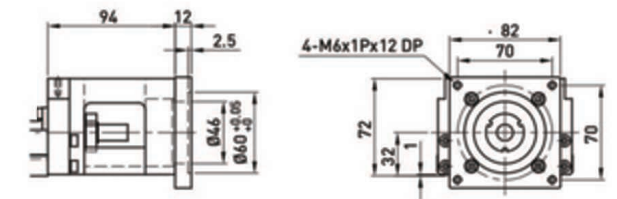
Motor Connection Flange F1



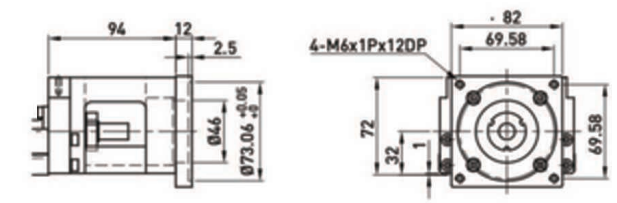
Motor Connection Flange F2



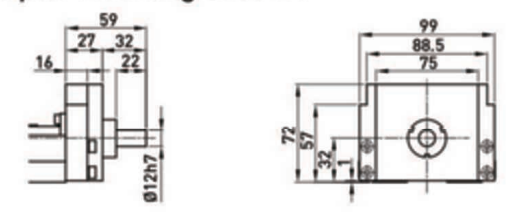
Motor Connection Flange F3



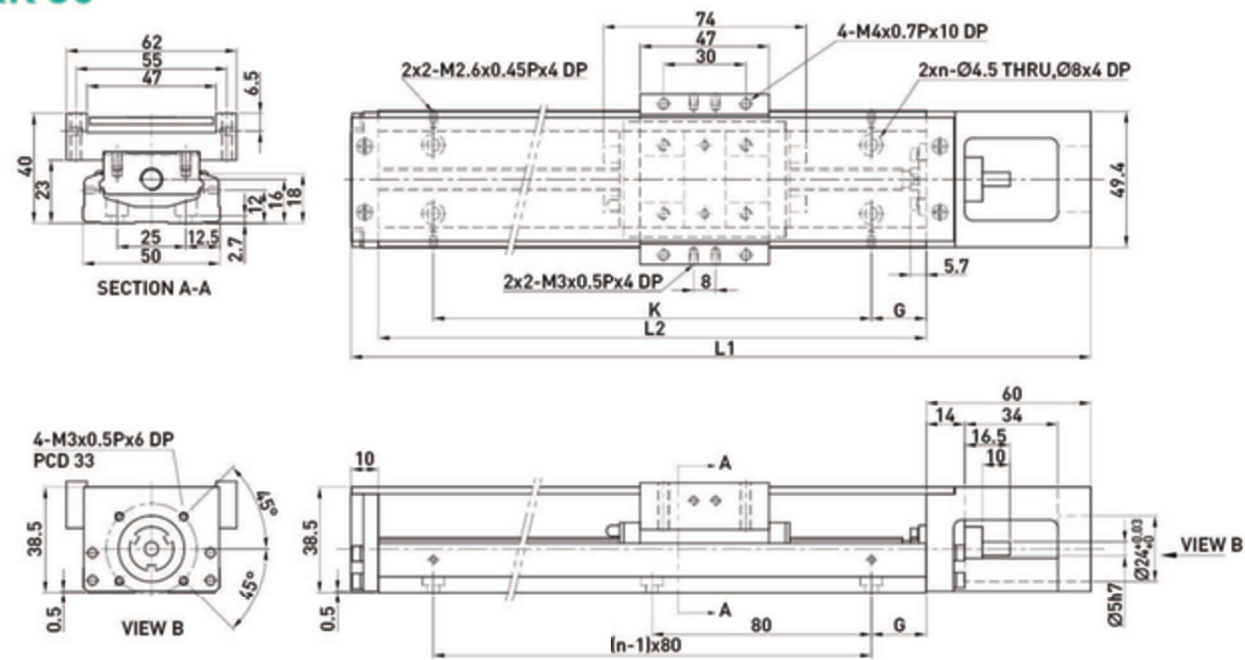
Motor Connection Flange F4



Adapter Mounting Base H0

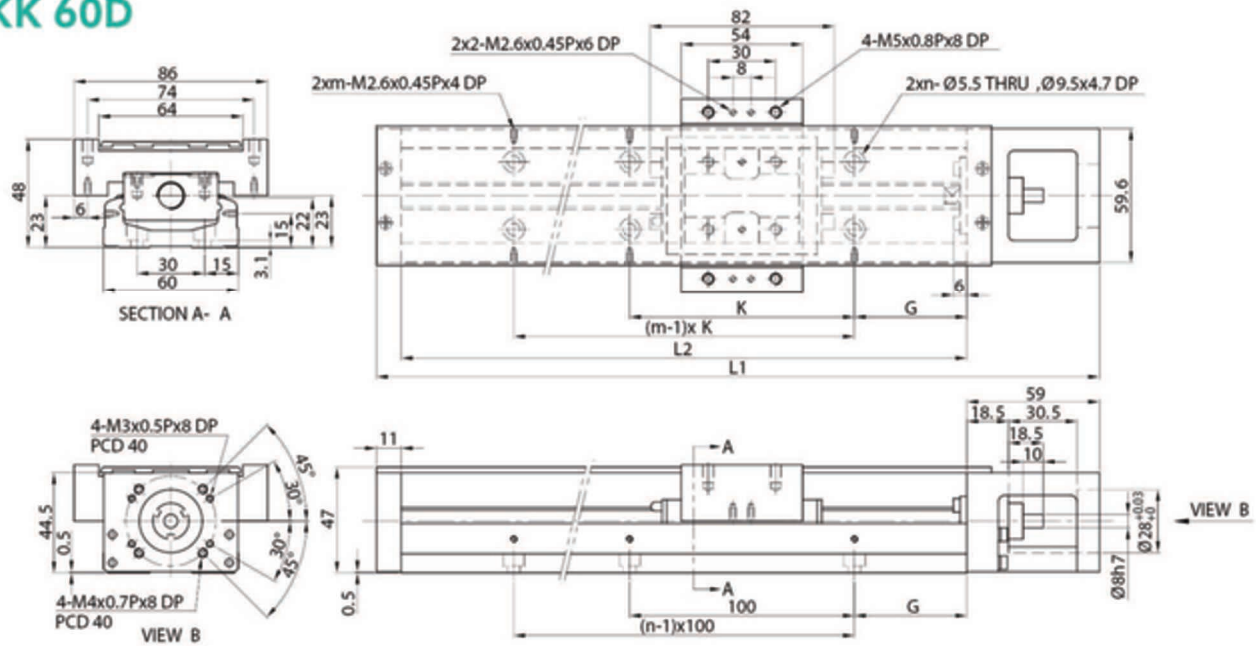


KK 50



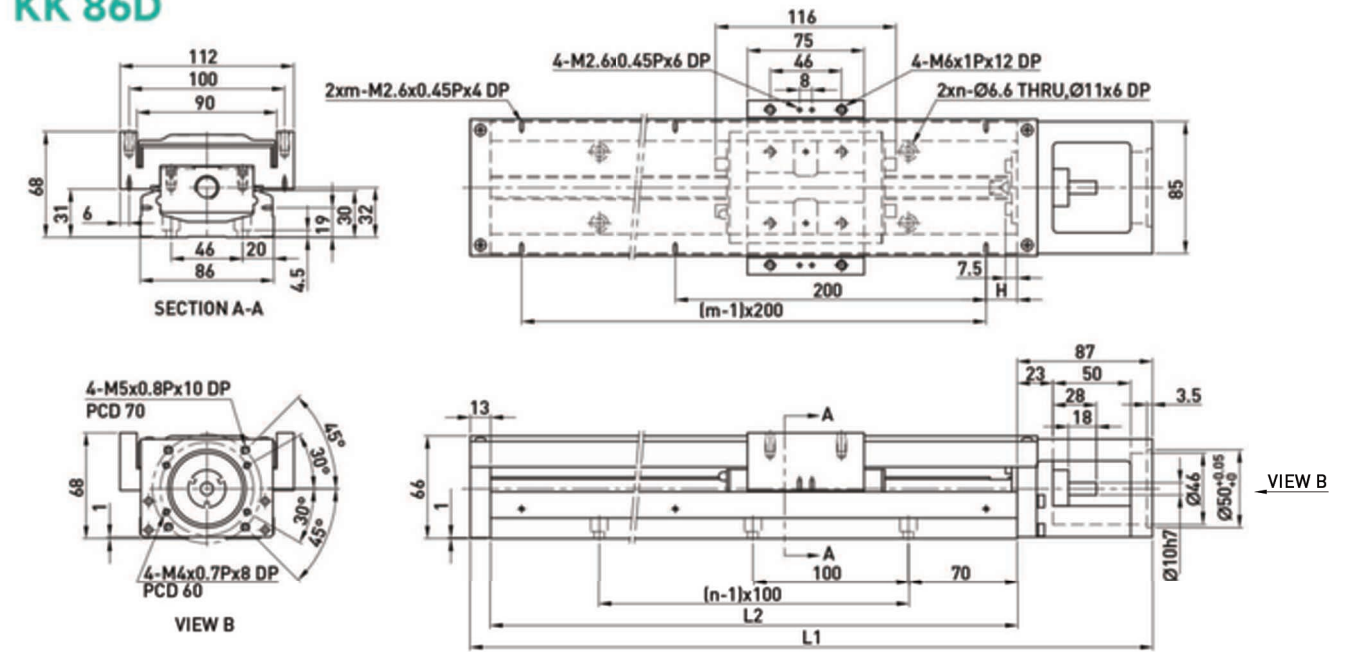
Rail length L2(mm)	Overall length L1(mm)	Maximum stroke(mm)		G(mm)	K(mm)	n	Weight(kg)	
		A1 carriage	A2 carriage				A1 carriage	A2 carriage
150	220	70	-	35	80	2	1.1	-
200	270	120	55	20	160	3	1.3	1.5
250	320	170	105	45	160	3	1.6	1.8
300	370	220	155	30	240	4	1.8	2.0

KK 60D



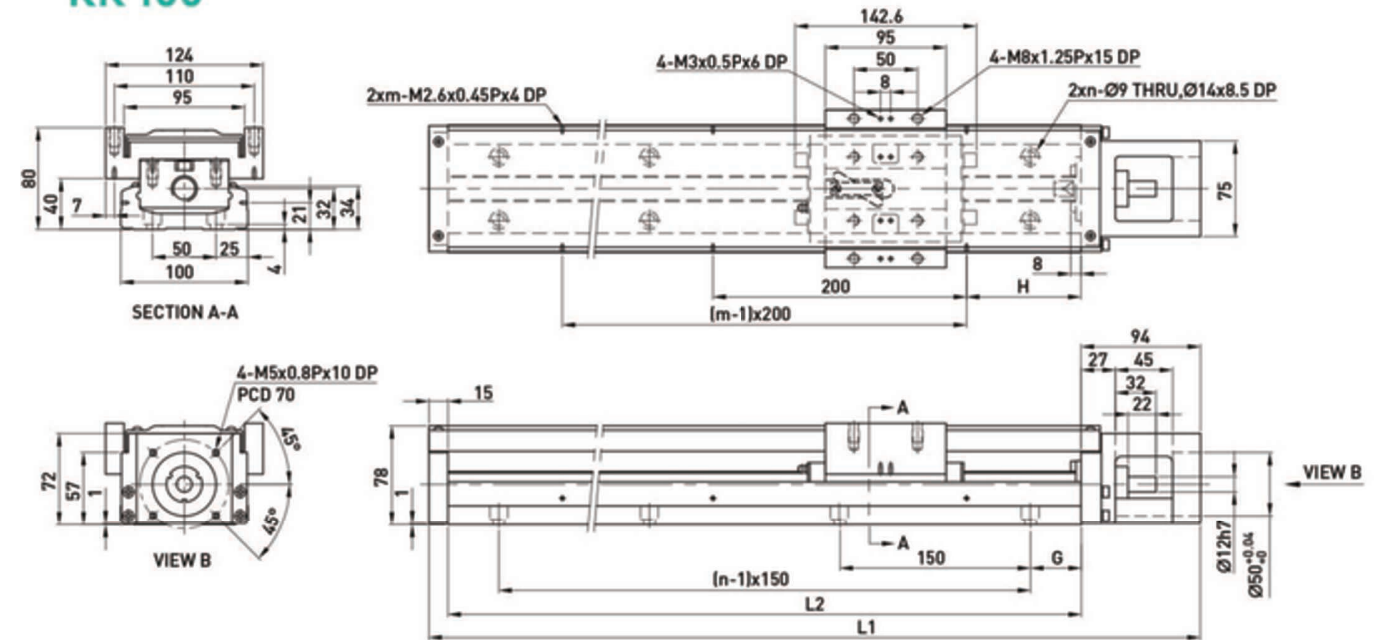
Rail length L2(mm)	Overall length L1(mm)	Maximum stroke(mm)		G(mm)	K(mm)	n	m	Weight(kg)	
		A1 carriage	A2 carriage					A1 carriage	A2 carriage
150	220	60	-	25	100	2	2	1.7	-
200	270	110	-	50	100	2	2	2.1	-
300	370	210	135	50	200	3	2	2.7	3.0
400	470	310	235	50	100	4	4	3.3	3.6
500	570	410	335	50	200	5	3	3.9	4.2
600	670	510	435	50	100	6	6	4.6	5.0

KK 86D



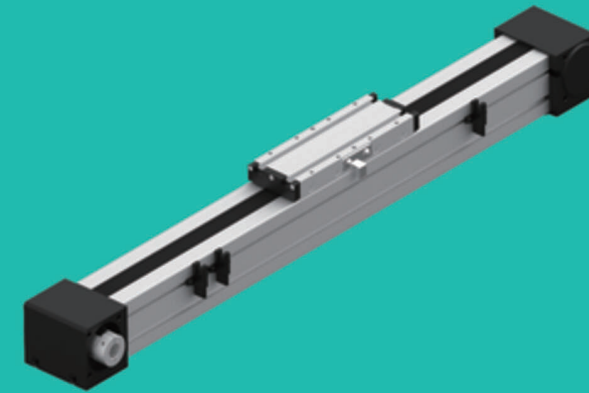
Rail length L2(mm)	Overall length L1(mm)	Maximum stroke(mm)		H(mm)	n	m	Weight(kg)	
		A1 carriage	A2 carriage				A1 carriage	A2 carriage
340	440	210	100	70	3	2	6.5	7.3
440	540	310	200	20	4	3	7.8	8.6
540	640	410	300	70	5	3	9.0	9.8
640	740	510	400	20	6	4	10.3	11.3
740	840	610	500	70	7	4	11.6	12.4
940	1040	810	700	70	9	5	13.0	13.8

KK 100

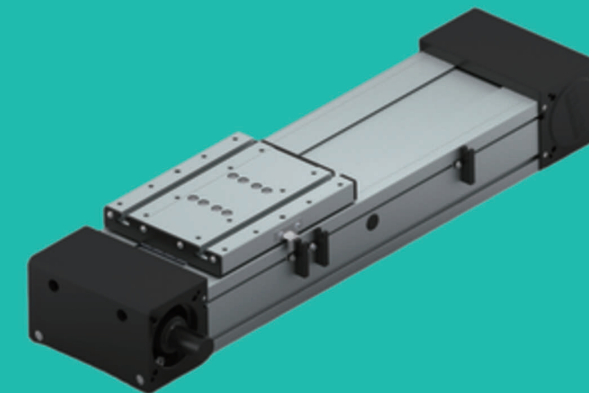


Rail length L2(mm)	Overall length L1 (mm)	Maximum stroke(mm)		G(mm)	H(mm)	n	m	Weight(kg)	
		A1 carriage	A2 carriage					A1 carriage	A2 carriage
980	1089	828	700	40	90	7	5	20.4	22.1
1080	1189	928	800	15	40	8	6	22.2	23.9
1180	1289	1028	900	65	90	8	6	24.0	25.7
1280	1389	1128	1000	40	40	9	7	25.7	27.4
1380	1489	1228	1100	15	90	10	7	27.5	29.2

European standard semi-dense synchronous belt drive type



ITO 40 / 60 / 60L / 80 / 80L / 100 / 100L / 140 / 140L



ITO 160

Code

ITO60

L

L130

500

DB

D01

GB2

22

P3

A001

Item NO.

Whether to extend the slider

Lead

Stroke

Auxiliary Block

Motor Mounting Direction

Motor type

Hole dimension of coupling

Photoelectric Sensor

Special Order No.

ITO40

Not labeled

L99

100-4000, Gap100

Not labeled

D01

GB1

P1:1PC

No Mark:No Sensor

ITO60

Not labeled

L130

Not labeled

D02

GB2

P2:2PCS

ITO80

Not labeled

L176

Not labeled

D03

GB3

P3:3PCS

ITO100

Not labeled

L224

Not labeled

D04

GB4

No Mark:No Sensor

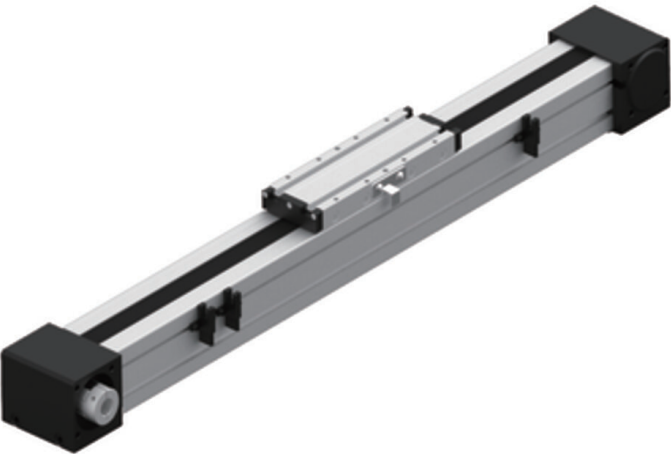
ITO140

Not labeled

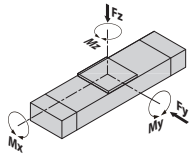
L256

Not labeled

D05



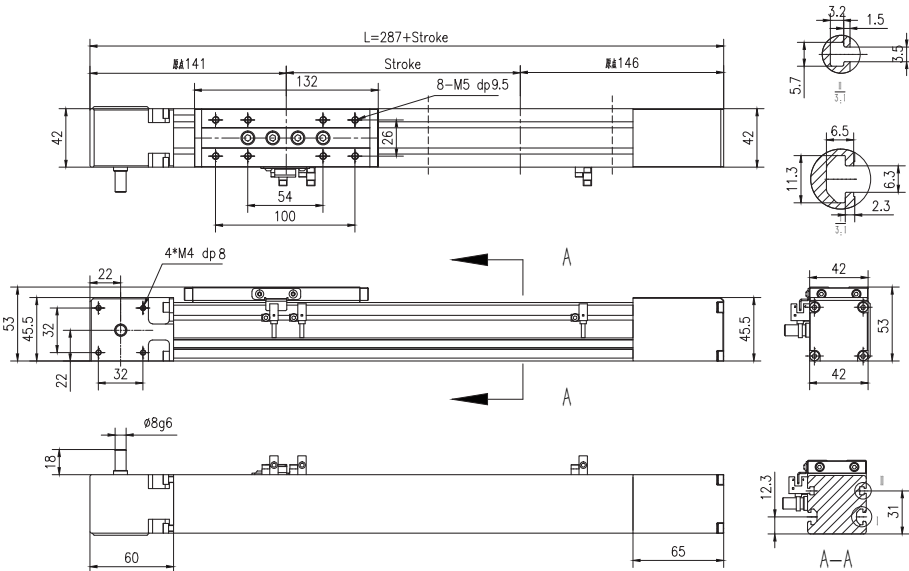
Max Static Forces And Torques



Type	40	60	60L	80	80L	100	100L	140	140L
■ F(y) (N)	993	2457	5235	3131	7277	4375	11675	6373	17175
■ F(z) (N)	993	3375	5335	5120	7277	7860	11675	11450	17175
■ M(x) (N·m)	6	22	40	75	75	115	136	198	217
■ M(y) (N·m)	20	78	231	210	558	310	1322	763	1678
■ M(z) (N·m)	20	78	231	210	558	310	1322	763	1678

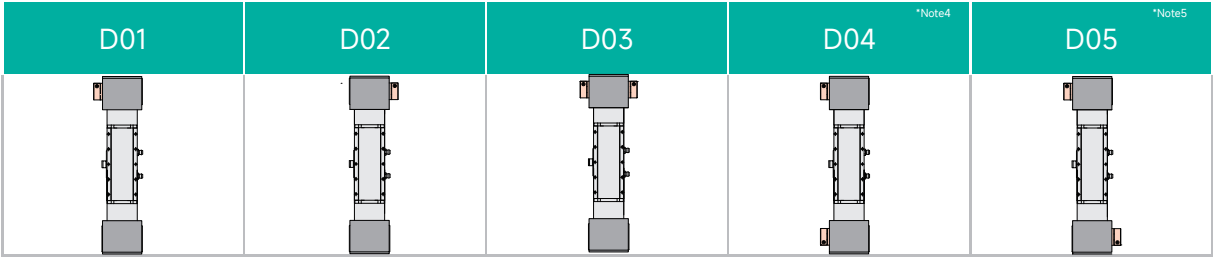
All forces and torques relate to the following:

$$\frac{F_y}{F_{y \max.}} + \frac{F_z}{F_{z \max.}} + \frac{M_x}{M_{x \max.}} + \frac{M_y}{M_{y \max.}} + \frac{M_z}{M_{z \max.}} \leq 1$$



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	387	487	587	687	787	887	987	1087	1187	1287	1387	1487	1587	1687	1787
Weight (kg)	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5

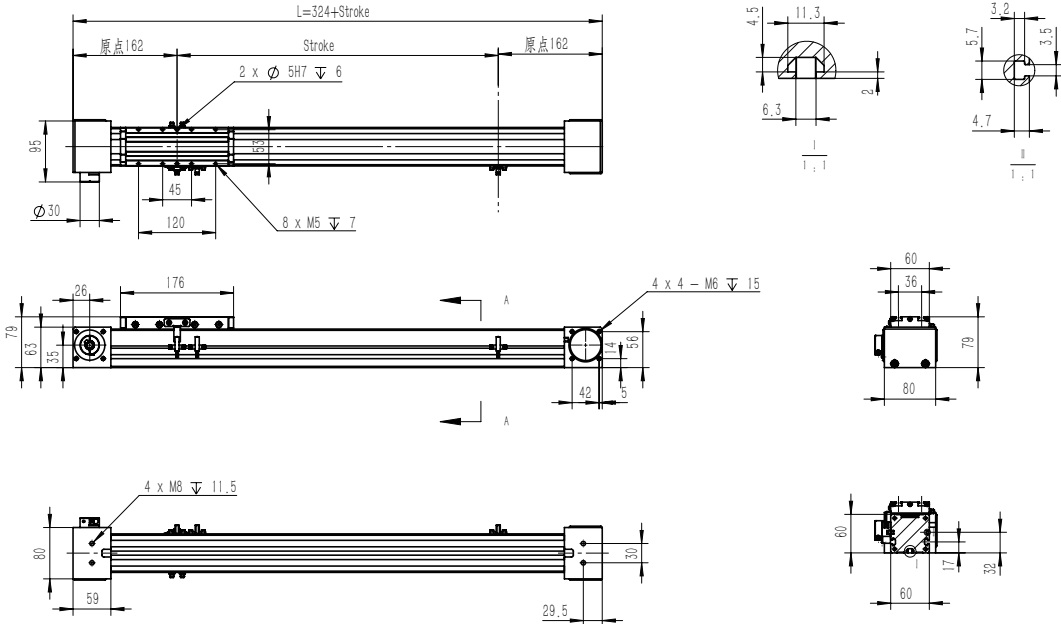
Motor Mounting Position Version



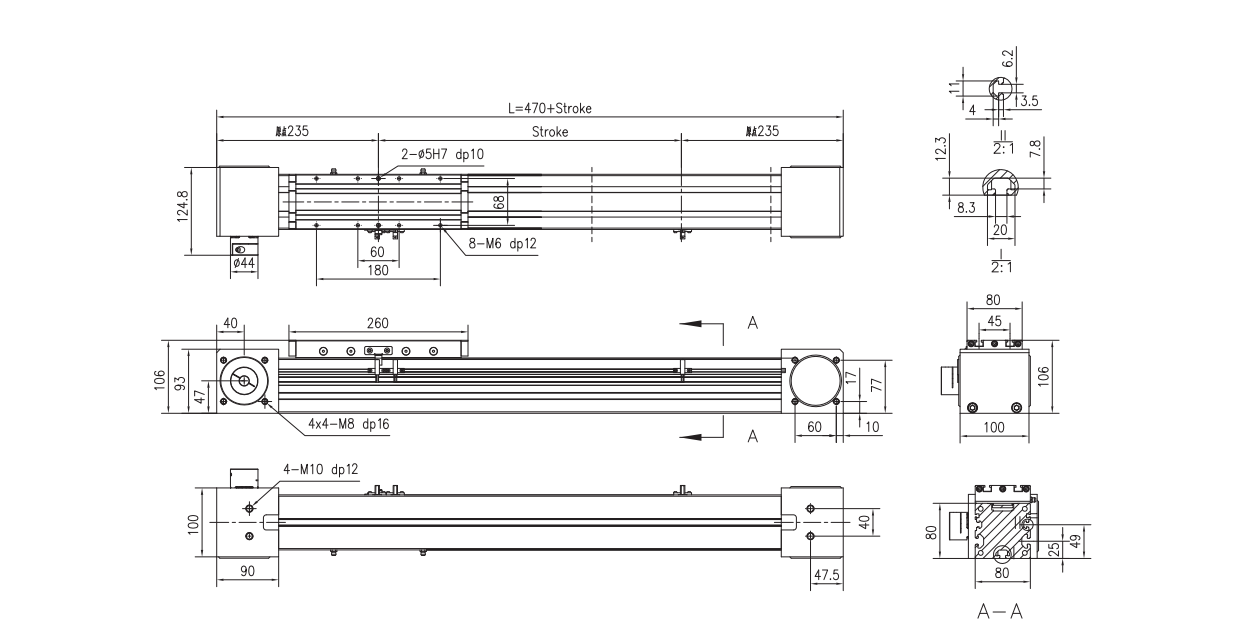
Basic Specification

ITO		40	60	60L	80	80L	100	100L	140	140L
Technical Parameters	Repetitive Accuracy (mm)	±0.05								
	Pulley Lead (mm)	99	130		176		224		256	
	Belt Type	3M-10	5M-25		8M-30		8M-50		8M-70	
	Maximum Speed (mm/s)	3000	5000		5000		5000		130	200
	Maximum Payload	Horizontal (kg)	10	30	45	50	75	80	120	100
		Vertical (kg)	8	20	30	40	60	60	90	1.2
	Max. No-load Driving Torque (N·m)	0.1	0.35	0.35	0.5	0.5	0.9	0.9	112.7	112.7
Basic Specification	最大扭矩 Max. Driving Torque (N·m)	6	13.3	13.3	49.8	49.8	105.7	105.7	112.7	112.7
	Stroke (mm)	100-1500mm/100pitch		100-4000mm/100pitch						
	AC Servo Motor Output (W)	100	200/400		400/750		750/1000		750/1000	
	Linear Guide	12#×1PCS	15#×1PCS		20#×1PCS		25#×1PCS		30#×1PCS	
	Max Outline of Main Engine's Cross Section (mm)	42×53	80×79		100×106		130×130		170×135	

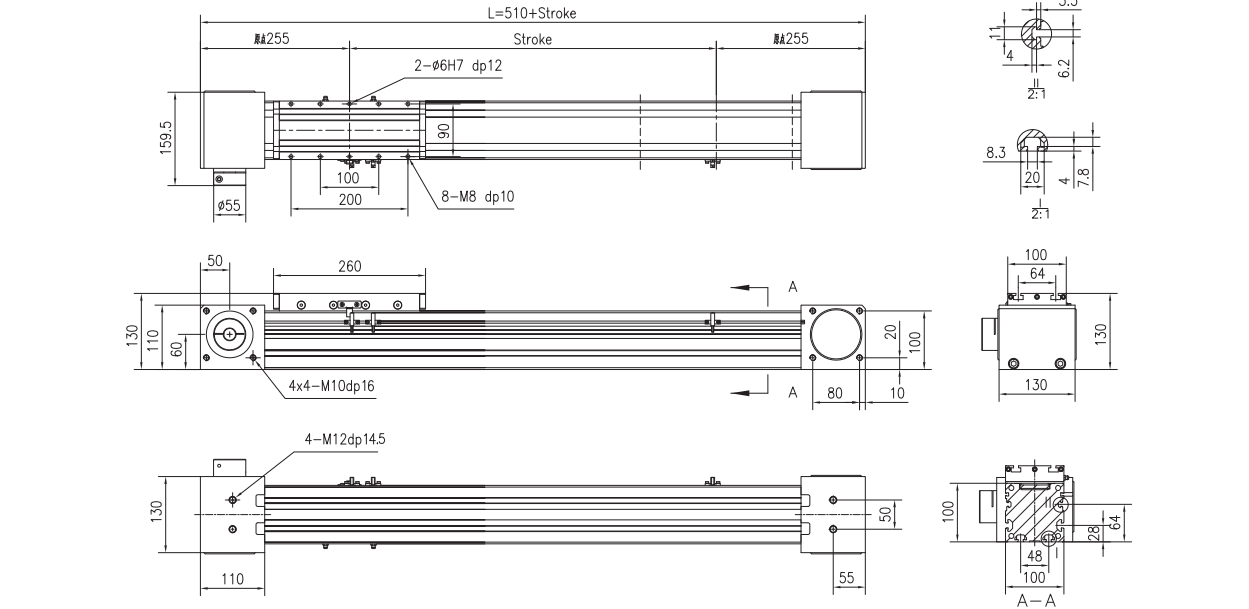
Note1: Refer to catalogue P217 for relevant parameters of auxiliary carriage option
Note2: Refer to catalogue P89 for relevant parameters of motor model
Note3: Hole dimension of coupling (reducer side)
Note4: ITO40 without D04 and D05
Note5: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.



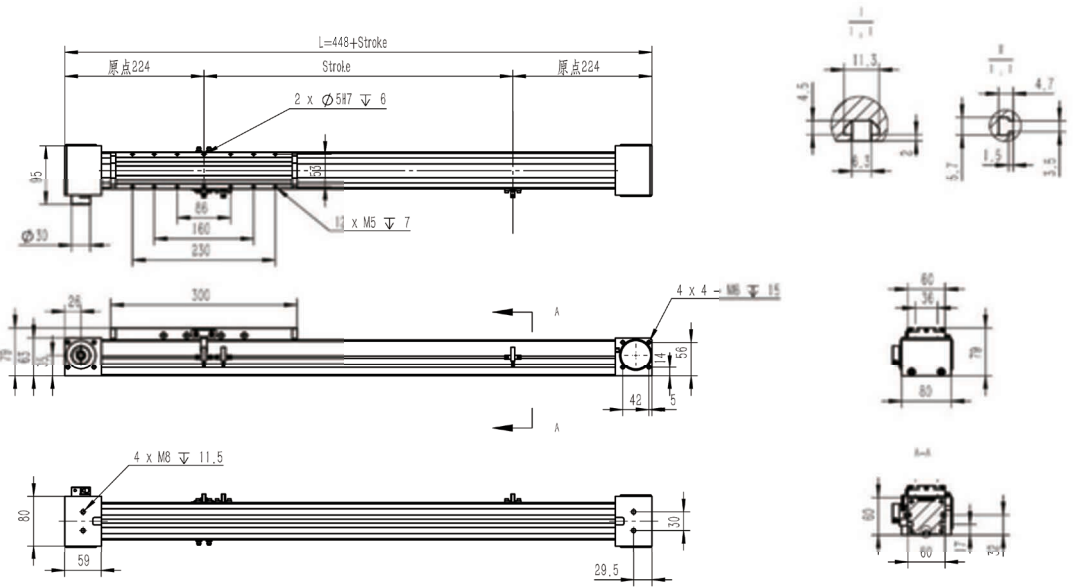
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	424	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324
Weight (kg)	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.7	12.2
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2424	2524	2624	2724	2824	2924	3024	3124	3224	3324	3424	3524	3624	3724	3824	3924	4024	4124	4224	4324
Weight (kg)	12.7	13.2	13.7	14.2	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.9	20.4	20.9	21.4	21.9	22.4



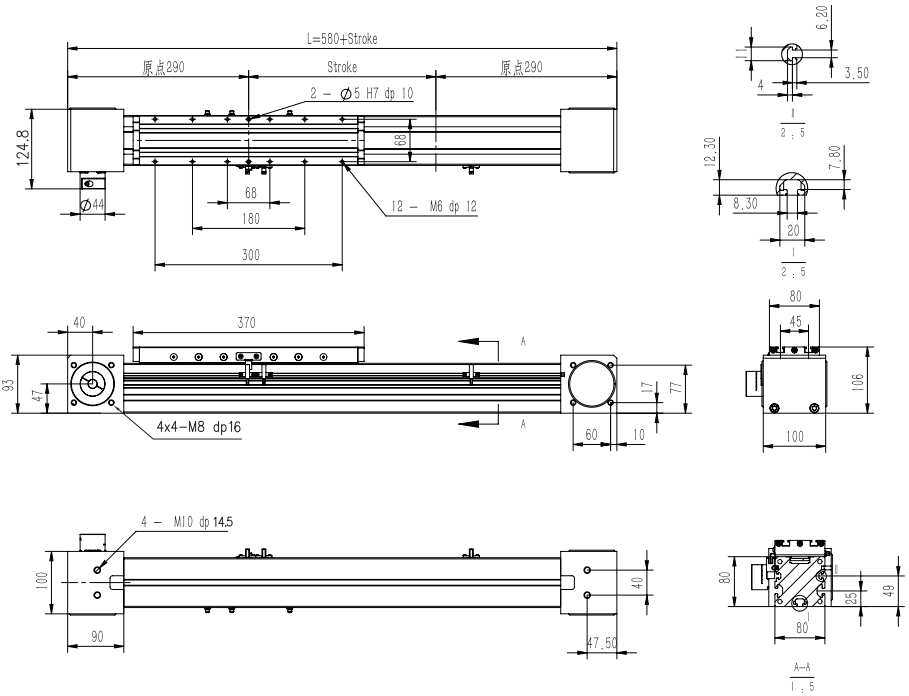
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	387	487	587	687	787	887	987	1087	1187	1287	1387	1487	1587	1687	1787
Weight (kg)	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5



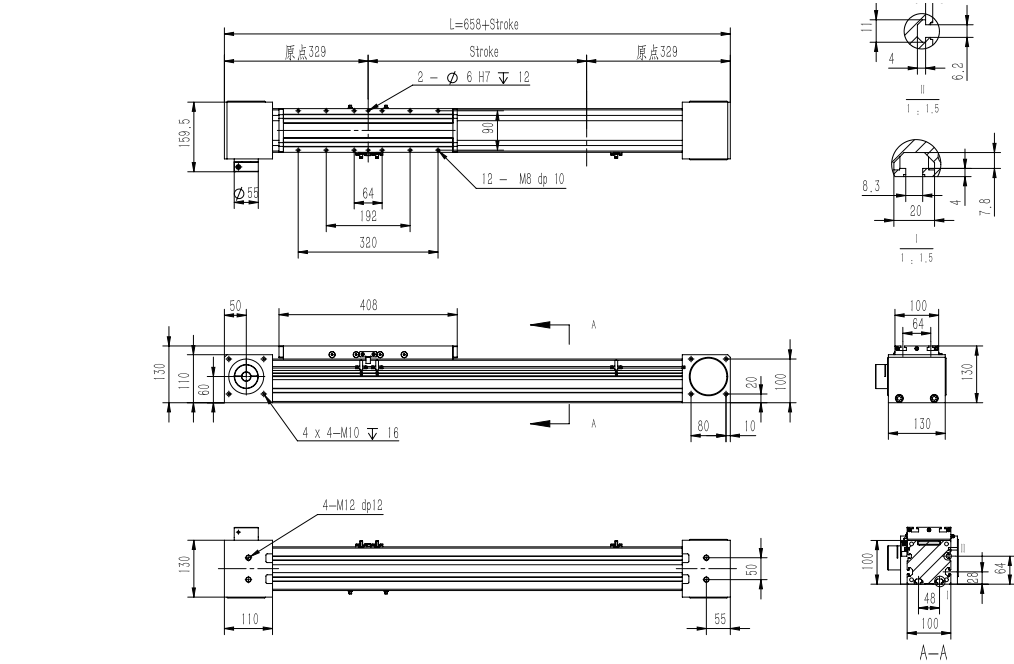
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	424	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324
Weight (kg)	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.7	10.2	10.7	11.2	11.7	12.2
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2424	2524	2624	2724	2824	2924	3024	3124	3224	3324	3424	3524	3624	3724	3824	3924	4024	4124	4224	4324
Weight (kg)	12.7	13.2	13.7	14.2	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.9	20.4	20.9	21.4	21.9	22.4



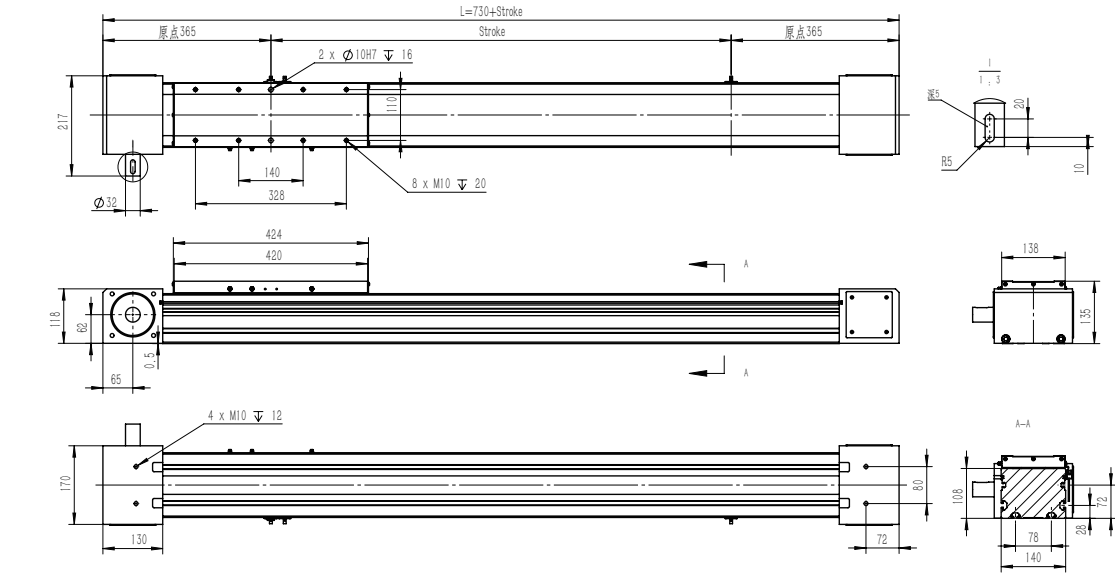
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	548	648	748	848	948	1048	1148	1248	1348	1448	1548	1648	1748	1848	1948	2048	2148	2248	2348	2448
Weight (kg)	2.8	3.3	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2548	2648	2748	2848	2948	3048	3148	3248	3348	3448	3548	3648	3748	3848	3948	4048	4148	4248	4348	4448
Weight (kg)	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3



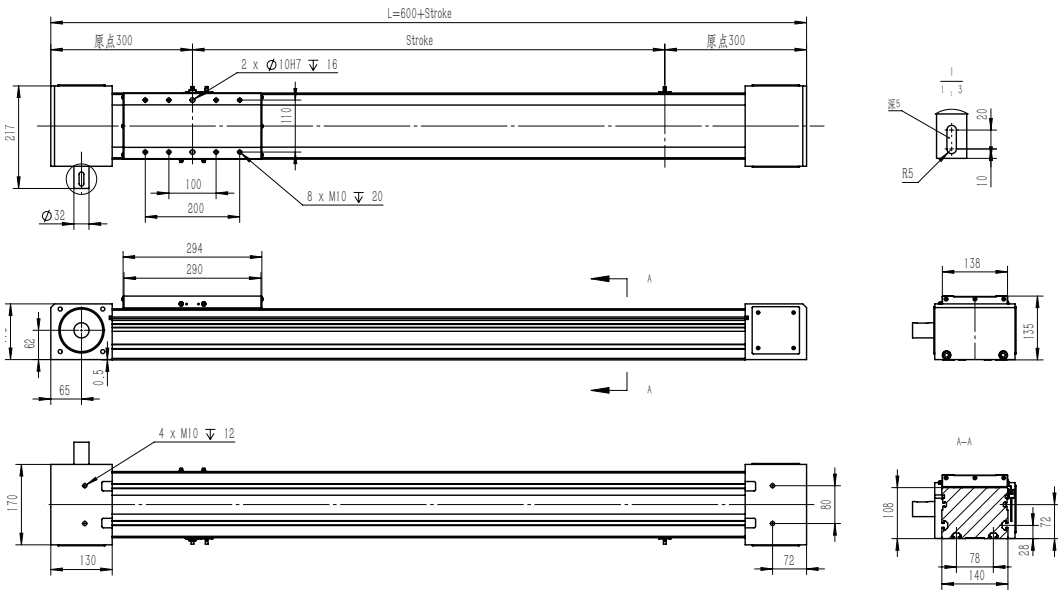
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480	2580
Weight (kg)	9.8	10.6	11.4	12.2	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280	4380	4480	4580
Weight (kg)	25.8	26.6	27.4	28.2	29	29.8	30.6	31.4	32.2	33	33.8	34.6	35.4	36.2	37	37.8	38.6	39.4	40.2	41



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	758	858	958	1058	1158	1258	1358	1458	1558	1658	1758	1858	1958	2058	2158	2258	2358	2458	2558	2658
Weight (kg)	16.5	17.8	19.1	20.4	21.7	23	24.3	25.6	26.9	28.2	29.5	30.8	32.1	33.4	34.7	36	37.3	38.6	39.9	41.2
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2758	2858	2958	3058	3158	3258	3358	3458	3558	3658	3758	3858	3958	4058	4158	4258	4358	4458	4558	4658
Weight (kg)	42.5	43.8	45.1	46.4	47.7	49	50.3	51.6	52.9	54.2	55.5	56.8	58.1	59.4	60.7	62	63.3	64.6	65.9	67.2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630	2730
Weight (kg)	37.29	39.3	41.32	43.33	45.34	47.35	47.37	51.38	53.39	55.4	57.43	59.44	61.44	63.45	65.48	67.49	69.5	71.51	73.53	75.54
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730
Weight (kg)	77.55	79.56	81.58	83.59	85.6	87.61	89.64	91.64	93.65	95.66	97.69	99.7	101.7	103.72	105.74	107.75	109.76	111.77	113.79	115.80



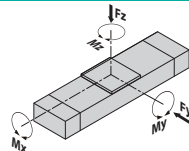
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
Weight (kg)	32.2	34.22	36.23	38.24	40.25	42.27	44.28	46.29	48.3	50.33	52.33	54.34	56.35	58.38	60.39	62.4	64.41	66.43	68.44	70.45
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600
Weight (kg)	72.46	74.48	76.49	78.5	80.51	82.53	84.54	86.55	88.56	90.59	92.6	94.6	96.61	98.64	100.65	102.66	104.67	106.69	108.7	110.71

Code

ITO160	L176	500	D01	DB	GB2	22	P3	A001
Item NO.	Lead	Stroke	Motor Mounting Direction	Auxiliary Block	Motor type	Hole dimension of coupling	Photoelectric Sensor	Special Order No.
ITO160	L176	100-4000, Gap100	D01	Not fitted: Single slider DB____Auxiliary slider	GB2 GB3		P1:1PC P2:2PCS P3:3PCS No Mark:No Sensor	No Mark:No Sensor



Max Static Forces And Torques

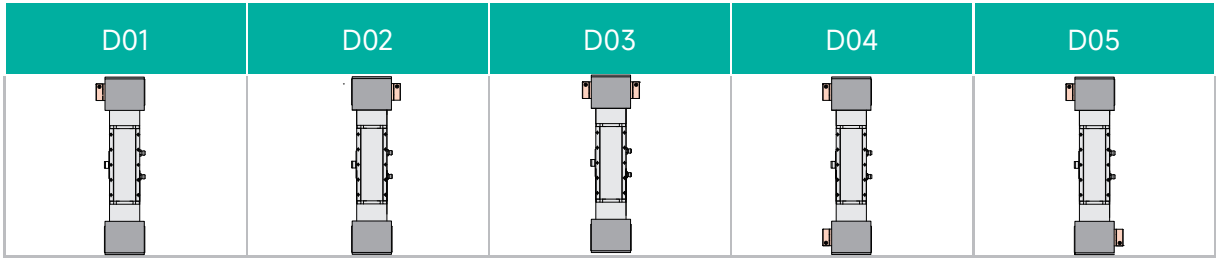


Type	160
■ F(x) (N)	9703
■ F(z) (N)	9450
■ F(y) (N)	9703
■ M(x) (N·m)	395.1
■ M(y) (N·m)	356.2
■ M(z) (N·m)	348.8

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

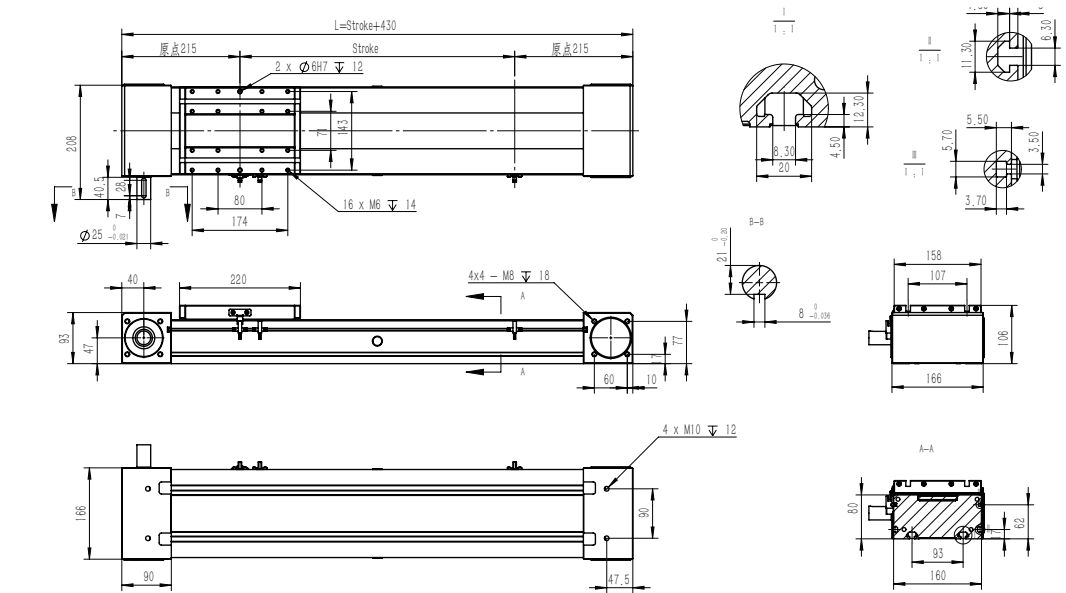
Motor Mounting Position Version



Basic Specification

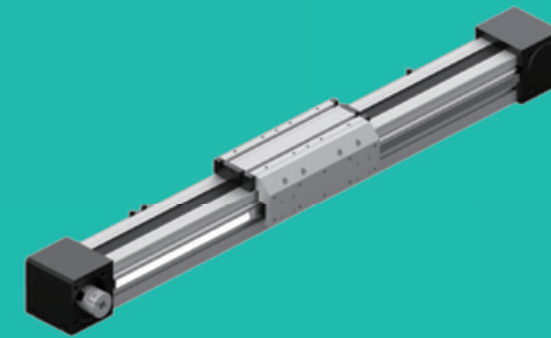
ITO			160
Technical Parameters	Repetitive Accuracy(mm)		±0.05
	Pulley Lead (mm)		176
	Belt Type		8M-70
	Maximum Speed (mm/s)		5000
	Maximum Payload	Horizontal(kg)	160
		Vertical(kg)	120
	Max. No-load Driving Torque (N·m)		1.2
	Max. Driving Torque (N·m)		112.7
Basic Specification	Stroke(mm)		100-4000mm / 100 Pitch
	AC Servo Motor Output(W)		750W-1000W
	Linear Guide		20#×2pcs
	Max Outline of Main Engine's Cross Section (mm)		166×106
	Home Sensor		EE-SX672(NPN)

Note1: Refer to catalogue P217 for relevant parameters of auxiliary carriage option
Note2: Refer to catalogue P89 for relevant parameters of motor model
Note3:Hole dimension of coupling (reducer side)
Note4: Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430
Weight (kg)	17.4	18.9	20.4	21.9	23.4	24.9	26.4	27.9	29.4	30.9	32.4	33.9	35.4	36.9	38.4	39.9	41.4	42.9	44.4	45.9
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2530	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430
Weight (kg)	47.7	48.9	50.4	51.9	53.4	54.9	56.4	57.9	59.4	60.9	62.4	63.9	65.4	66.9	68.4	69.9	71.4	72.9	74.4	75.9

European standard semi-dense synchronous belt drive
side rail reinforced type

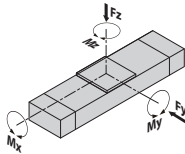


HTO 60 / 80 / 80L / 100 / 100L / 140 / 140L

Code

HTO80	L	L176	500	DB_	D01	GB2	22	P3	A001
Item NO.	Whether to extend the slider Not labeled: Standard slider L: Extended slider	Lead	Stroke/Lead Block	*Note1 Not filled: Single slider DB: Auxiliary slider	Motor Mounting Direction	Motor type	Hole dimension of coupling	Photoelectric Sensor	Special Order No.
HTO60		L130	100-4000, Gap100		D01	GB2		P1: 1PC	No Mark: No Sensor
HTO80		L176			D02	GB3		P2: 2PCS	
HTO100		L224			D03	GB4		P3: 3PCS	
HTO140		L256			D04			No Mark: No Sensor	
					D05				
					D06				

Max Static Forces And Torques



Type	60	80	80L	100	100L	140	140L
■ F(y)(N)	5300	6980	10470	9702	14554	10196.8	27480
■ F(z)(N)	5300	6980	10470	9702	14554	18320	27480
■ M(x)(N·m)	82	118	178	216	374	372	597
■ M(y)(N·m)	118	333	590	765	1080	2553	5614
■ M(z)(N·m)	118	333	590	765	1080	2553	5614

All forces and torques relate to the following:

$$\frac{F_y}{F_{y \max.}} + \frac{F_z}{F_{z \max.}} + \frac{M_x}{M_{x \max.}} + \frac{M_y}{M_{y \max.}} + \frac{M_z}{M_{z \max.}} \leq 1$$

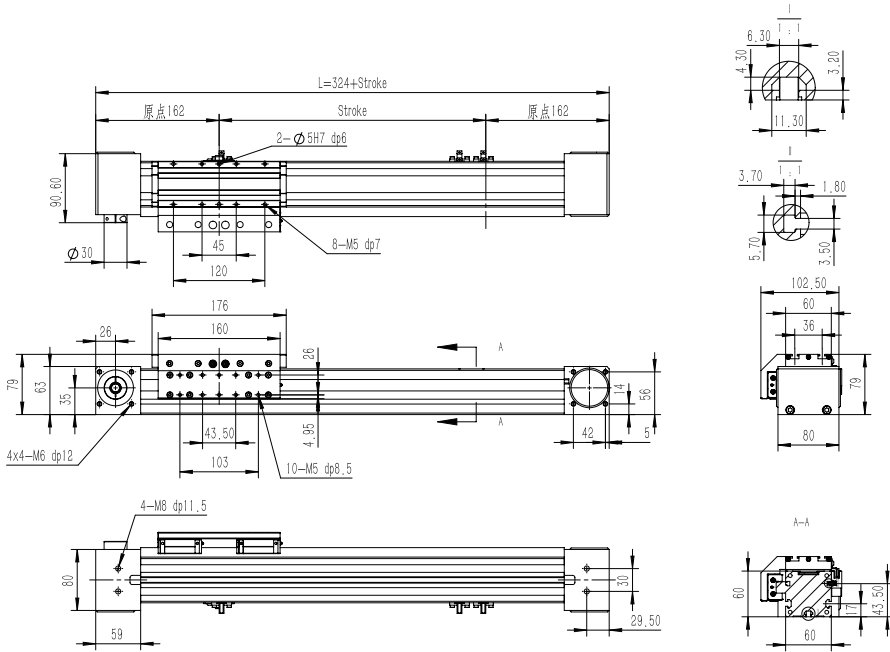
Motor Mounting Position Version

D01	D02	D03	D04	D05	D06

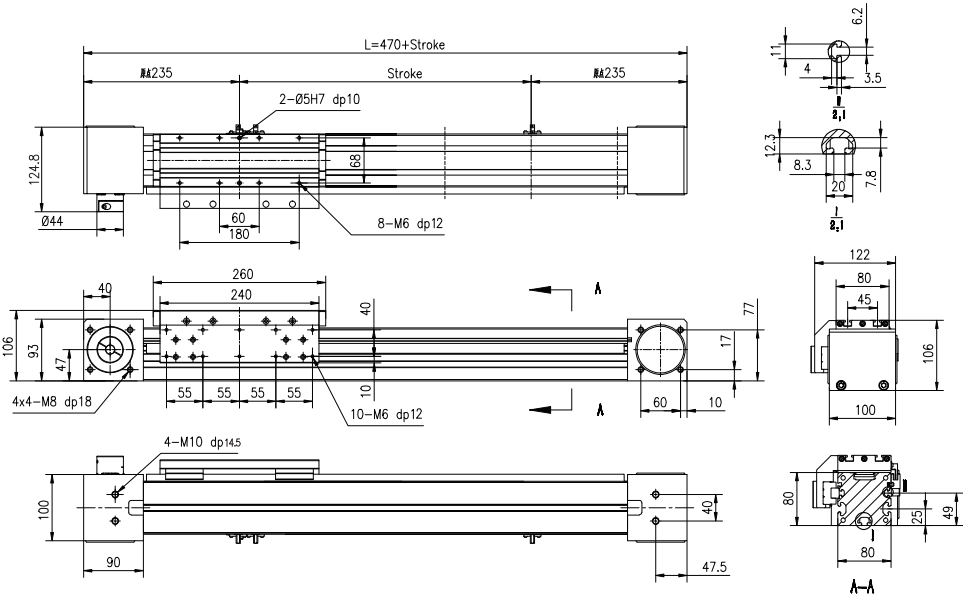
Basic Specification

HTO		60	80	80L	100	100L	140	140L
Technical Parameters	Repetitive Accuracy(mm)	±0.05						
	Pulley Lead (mm)	130	176		224		256	
	Belt Type	5M-25	8M-30		8M-50		8M-70	
	Maximum Speed (mm/s)	5000						
	Maximum Payload	Horizontal(kg)	55	100	150	165	247.5	360
		垂直使用Vertical(kg)	25	62	93	105	157.5	200
	Max. No-load Driving Torque (N·m)	0.5	0.9		1.4		1.2	
	Max. Driving Torque (N·m)	13.3	49.8		105.7		112.7	
Basic Specification	Stroke(mm)	100-2000mm/100 pitch	100-4000mm/100 pitch					
	AC Servo Motor Output (W)	200/400	200/400/750	200/400/750	750/1000	750/1000	750/1000	750/1000
	Linear Guide	15# ×2PCS	20#×1PC + 15# ×1PC		25#×1PC + 20#×1PC		30#×1PC + 25#×1PC	
	Max Outline of Main Engine's Cross Section (mm)	102.5×79	106×122		130×151		196×135	
	Home Sensor	EE-SX672(NPN)						

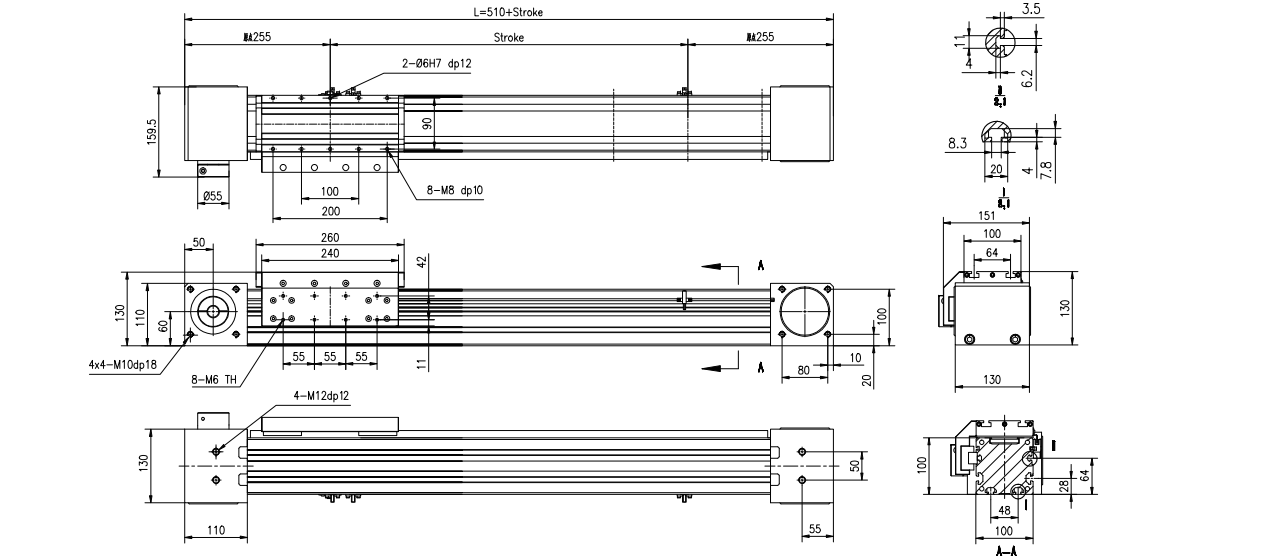
Note1: Refer to catalogue P217 for relevant parameters of auxiliary carriage option
Note2: Refer to catalogue P89 for relevant parameters of motor model
Note3: Hole dimension of coupling (reducer side)
Note4: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.



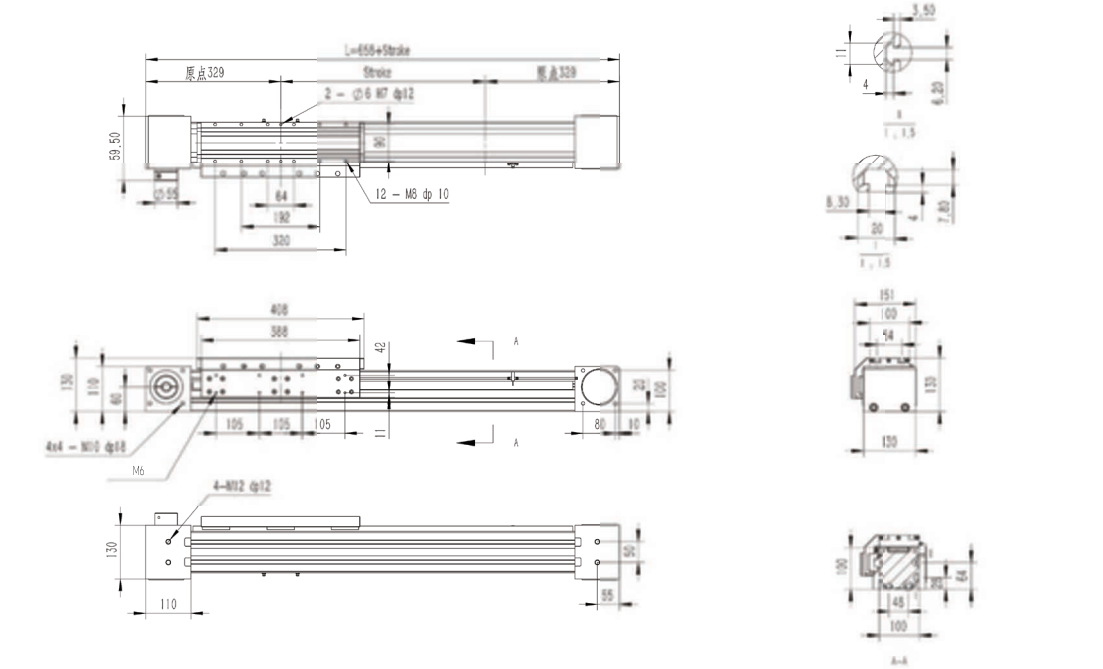
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	424	524	624	724	824	924	1024	1124	1224	1324	1424	1524	1624	1724	1824	1924	2024	2124	2224	2324
Weight (kg)	4.8	5.4	6.1	6.7	7.4	8.0	8.7	9.3	10.0	10.6	11.3	12.0	12.6	13.3	13.9	14.6	15.2	15.9	16.5	17.2



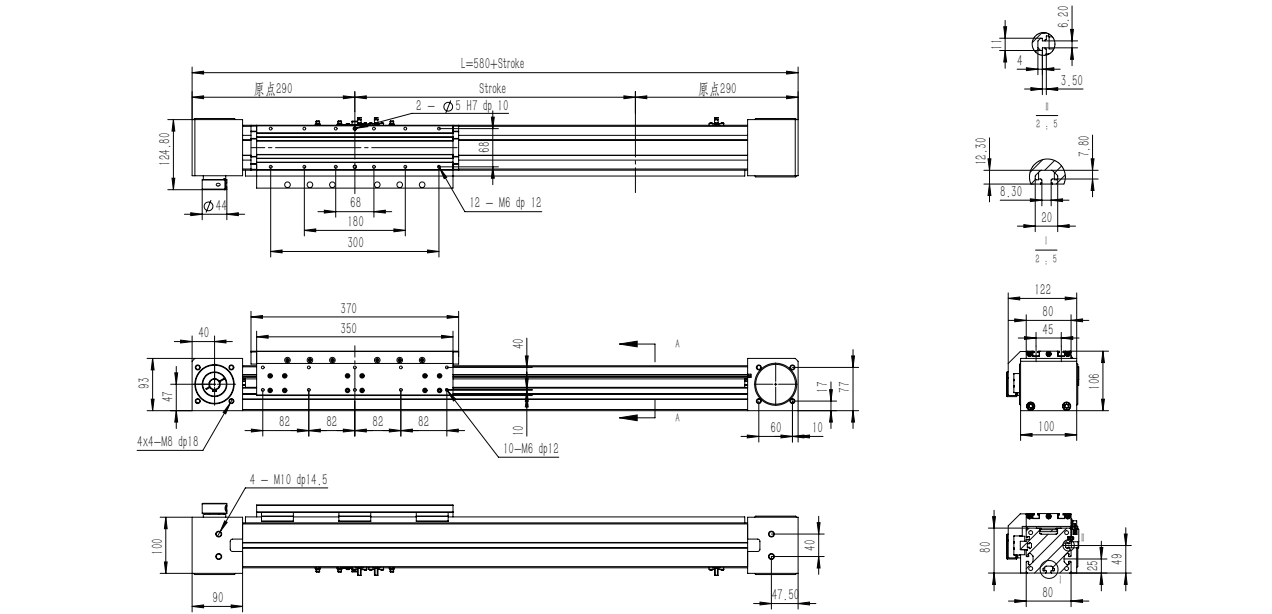
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470
Weight (kg)	10.4	11.4	12.4	13.4	14.4	15.4	16.4	17.4	18.4	19.4	20.4	21.4	22.4	23.4	24.4	25.4	26.4	27.4	28.4	29.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2570	2670	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370	4470
Weight (kg)	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4



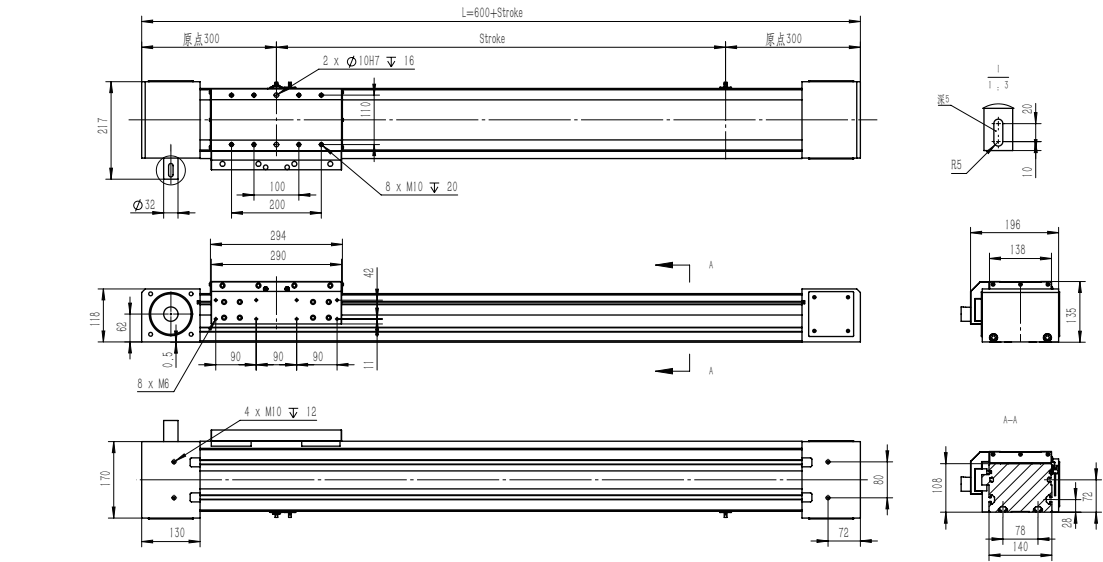
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
Weight (kg)	17.4	18.85	20.30	21.75	23.20	24.65	26.10	27.55	29.00	30.45	31.90	33.35	34.80	36.25	37.70	39.15	40.60	42.06	43.50	44.95
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	3810	3910	4010	4110	4210	4310	4410	4510
Weight (kg)	46.40	47.85	49.30	50.75	52.20	53.65	55.10	56.55	58.00	59.45	60.90	62.35	63.80	65.25	66.70	68.15	69.60	71.05	72.50	73.95



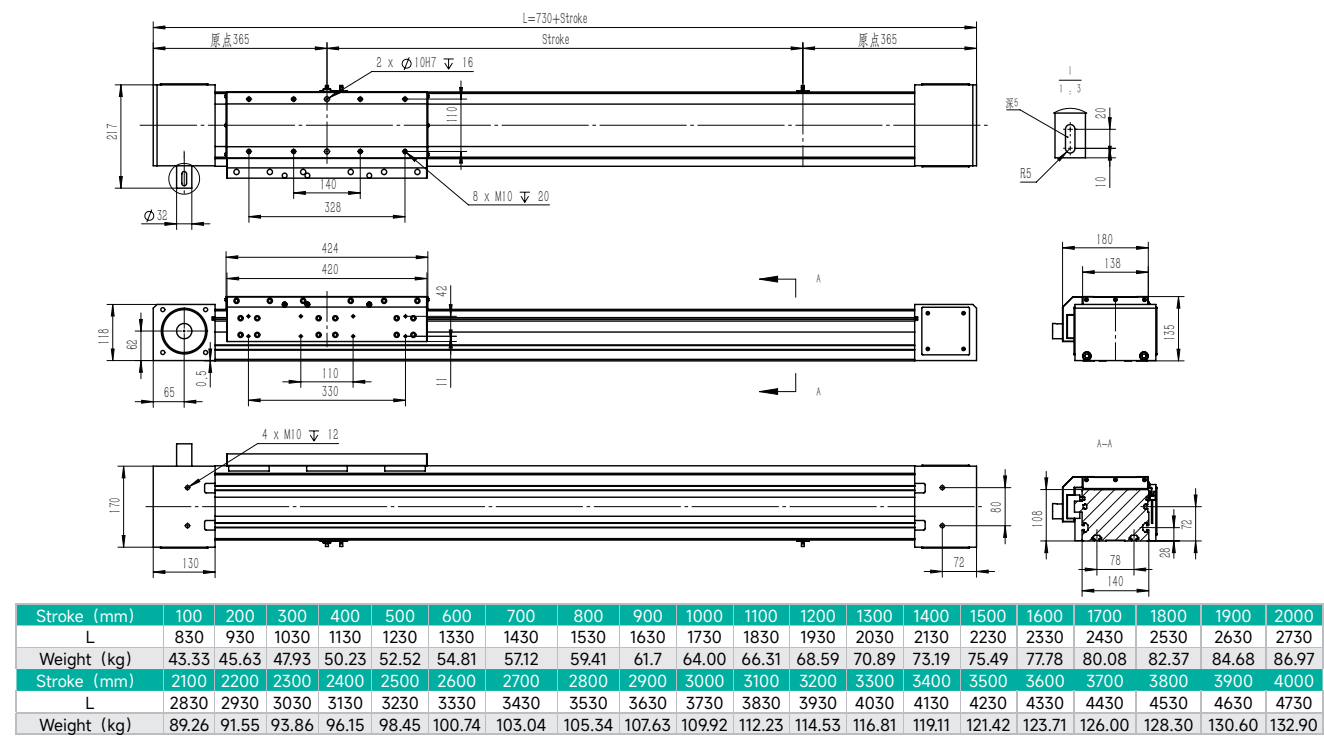
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	758	858	958	1058	1158	1258	1358	1458	1558	1658	1758	1858	1958	2058	2158	2258	2358	2458	2558	2658
Weight (kg)	22.50	22.50	23.95	25.40	26.85	28.30	29.75	31.20	32.65	34.10	35.55	37.00	38.45	39.90	41.35	42.80	44.25	45.70	47.15	48.60
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2758	2858	2958	3058	3158	3258	3358	3458	3558	3658	3758	3858	3958	4058	4158	4258	4358	4458	4558	4658
Weight (kg)	50.05	51.50	52.95	54.40	55.85	57.30	58.75	60.20	61.65	63.10	64.55	66.00	67.45	68.90	70.35	71.80	73.25	74.70	76.15	77.60



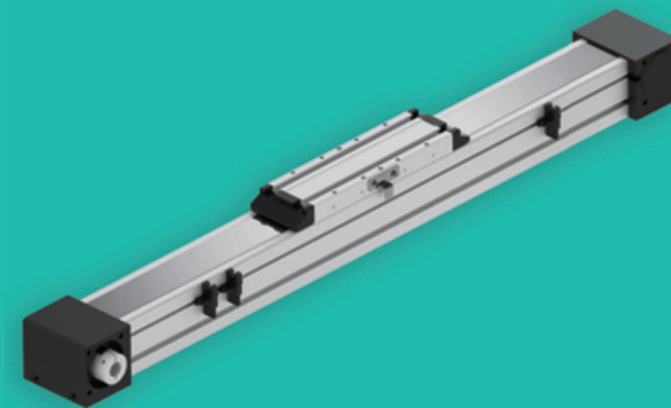
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	680	780	880	980	1080	1180	1280	1380	1480	1580	1680	1780	1880	1980	2080	2180	2280	2380	2480	2580
Weight (kg)	12.70	13.68	14.66	15.64	16.62	17.60	18.58	19.56	20.54	21.52	22.50	23.48	24.46	25.44	26.42	27.40	28.38	29.36	30.34	31.32
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2680	2780	2880	2980	3080	3180	3280	3380	3480	3580	3680	3780	3880	3980	4080	4180	4280	438	4480	4580
Weight (kg)	32.30	33.28	34.26	35.24	36.22	37.20	38.18	39.16	40.14	41.12	42.10	43.08	44.06	45.04	46.02	47.00	47.98	48.96	49.94	50.92



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
Weight (kg)	36.43	38.74	41.03	43.44	45.61	47.92	50.22	52.51	54.8	57.11	59.4	61.69	63.99	66.29	68.59	70.88	73.17	75.48	77.78	80.06
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600
Weigh (kg)	82.36	84.67	86.96	89.25	91.55	93.85	96.14	98.44	100.73	103.04	105.33	107.62	109.92	112.23	114.51	116.81	119.1	121.41	123.7	126.00



European standard fully dense synchronous belt drive type



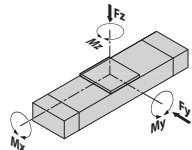
ITC 60 / 60L / 80 / 80L / 100 / 100L

Code

ITC60	L	500	L130	DB_	D01	GB2	22	P3	A001
Item NO.	Whether to extend the slider Not labeled: Standard slider L: Extended slider	Stroke	Lead	Auxiliary Block DB_輔助滑塊	Motor Mounting Direction	Motor type	Hole dimension of coupling	Photoelectric Sensor	Special Order No.
ITC 60		100-4000, Gap100	L130		D01	GB2		P1:1PC	No Mark/No Sensor
ITC 80			L176		D02	GB3		P2:2PCS	
ITC100			L224		D03	GB4		P3:3PCS	
					D04			No Mark/No Sensor	
					D05				



Max Static Forces And Torques



Type	60	60L	80	80L	100	100L
■ F(y)(N)	2457	5235	3131	7277	4375	11675
■ F(z)(N)	3375	5335	5120	7277	7860	11675
■ M(x)(N·m)	22	40	75	75	115	135
■ M(y)(N·m)	78	231	210	558	310	1322
■ M(z)(N·m)	78	231	210	558	310	1322

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

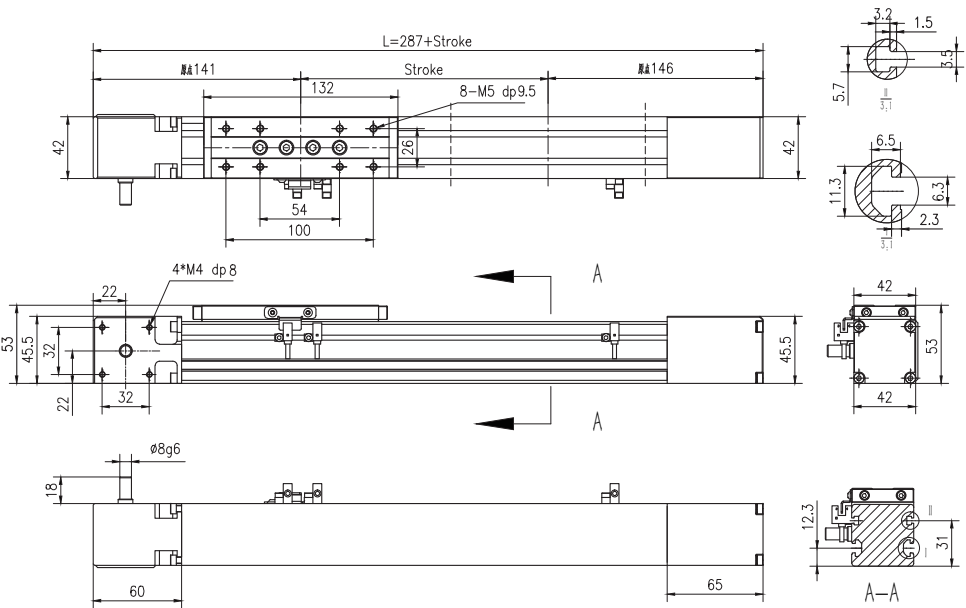
Motor Mounting Position Version

D01	D02	D03	D04	D05	D06

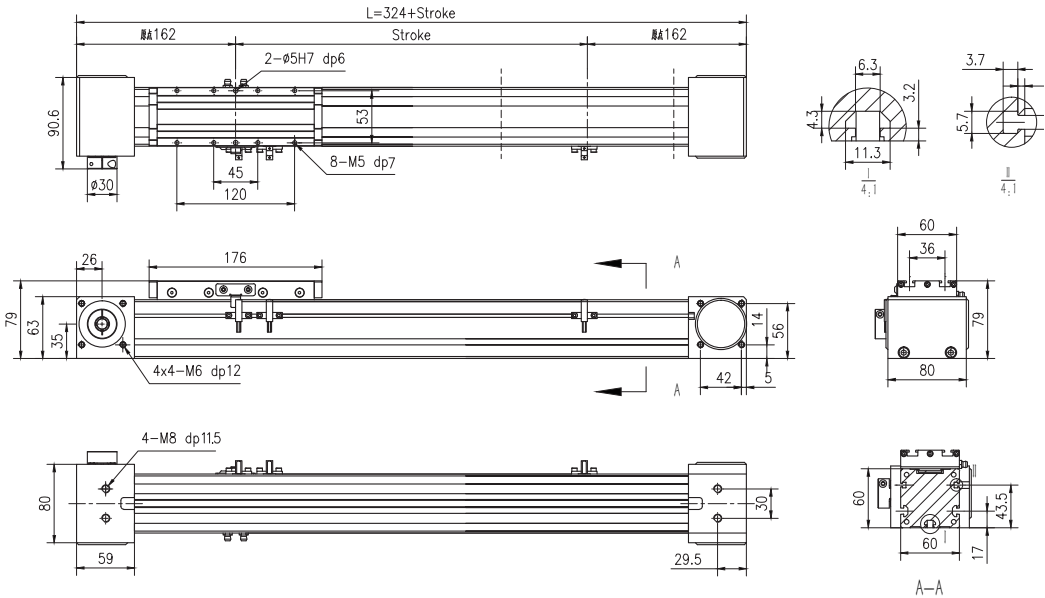
Basic Specification

ITC			60	60L	80	80L	100	100L
Technical Parameters	Repetitive Accuracy (mm)		±0.05					
	Pulley Lead (mm)		130		176		224	
	Belt Type		5M-25		8M-30		8M-50	
	Maximum Speed (mm/s)		5000		5000		5000	
	Maximum Payload	*Note1 Horizontal(kg)	30	45	50	75	80	120
		Vertical(kg)	20	30	40	60	60	90
	Max. No-load Driving Torque (N·m)		0.35	0.35	0.5	0.5	0.9	0.9
	Max. Driving Torque (N·m)		13.3	13.3	49.8	49.5	105.7	105.7
Basic Specification	Stroke(mm)		100-2000mm/100pitch					
	AC Servo Motor Output (W)		200 / 400		400 / 750		750 / 1000	
	Linear Guide		15#×1PCS		20#×1PCS		25#×1PCS	
	Max Outline of Main Engine's Cross Section (mm)		80×79		100×106		130×130	
	Home Sensor		EE-SX672(NPN)					

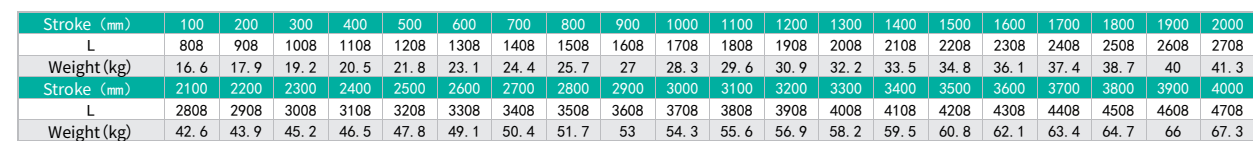
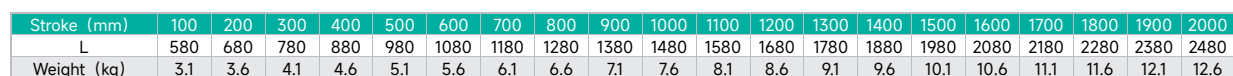
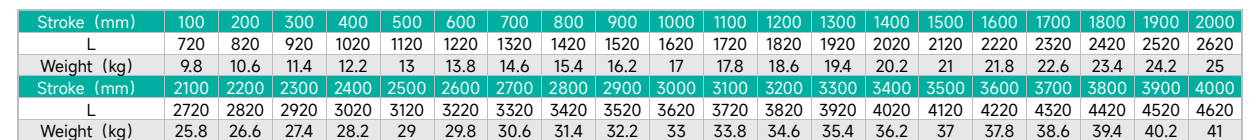
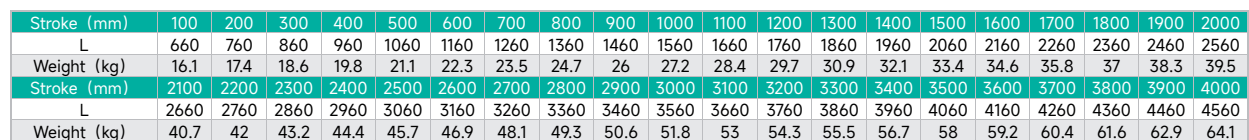
#Note1: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.



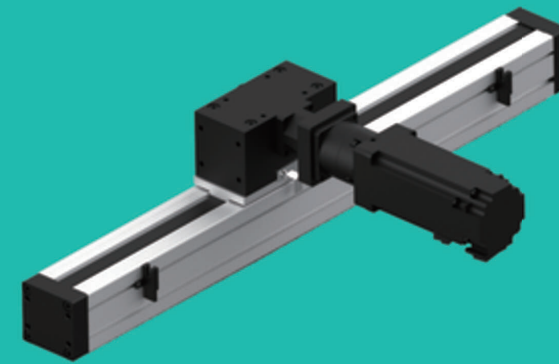
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	476	576	676	776	876	976	1076	1176	1276	1376	1476	1576	1676	1776	1876	1976	2076	2176	2276	2376
Weight (kg)	2.8	3.3	3.8	4.3	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9	9.4	10	10.5	11	11.5	12	12.5



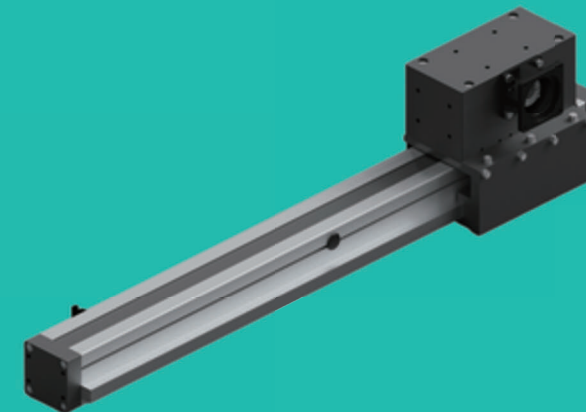
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	610	710	810	910	1010	1110	1210	1310	1410	1510	1610	1710	1810	1910	2010	2110	2210	2310	2410	2510
Weight (kg)	9.4	10.2	11.1	11.9	12.8	13.7	14.5	15.4	16.2	17.1	18	18.8	19.7	20.5	21.4	22.3	23.1	24	24.8	25.7
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2610	2710	2810	2910	3010	3110	3210	3310	3410	3510	3610	3710	3810	3910	4010	4110	4210	4310	4410	4510
Weight (kg)	26.6	27.4	28.3	29.1	30	30.9	31.7	32.6	33.4	34.3	35.2	36	36.9	37.7	38.6	39.5	40.3	41.2	42	42.9



European standard Z-axis lifting special type



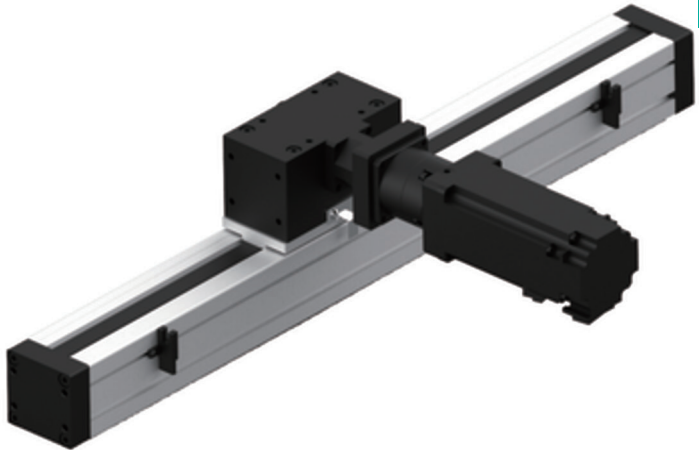
ITZ 60



HTZ 80

Code

ITZ60	L130	500	DB_	D01	GB2	16	P3	A001
Item NO.	Lead	Stroke	Auxiliary Block	Motor Mounting Direction	Motor type	Hole dimension of coupling	Photoelectric Sensor	Special Order No.
ITZ60	L130	100-1500,Gap100	Not filled Single slider DB_ Auxiliary slider	D01 D02	GB2 *Note2		P1:1PC P2:2PCS P3:3PCS No Mark.No Sensor	No Mark.No Sensor



Max Static Forces And Torques

Type	60
■F(y)(N)	999
■F(z)(N)	2684
■M(x)(N·m)	20
■M(y)(N·m)	61
■M(z)(N·m)	61

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

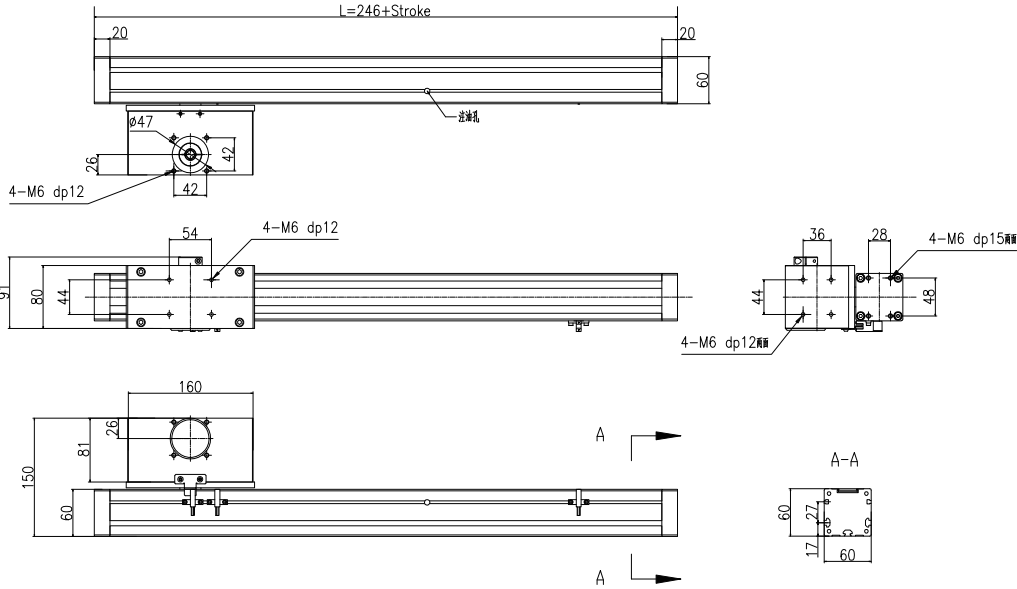
Motor Mounting Position Version

D01	D02

Basic Specification

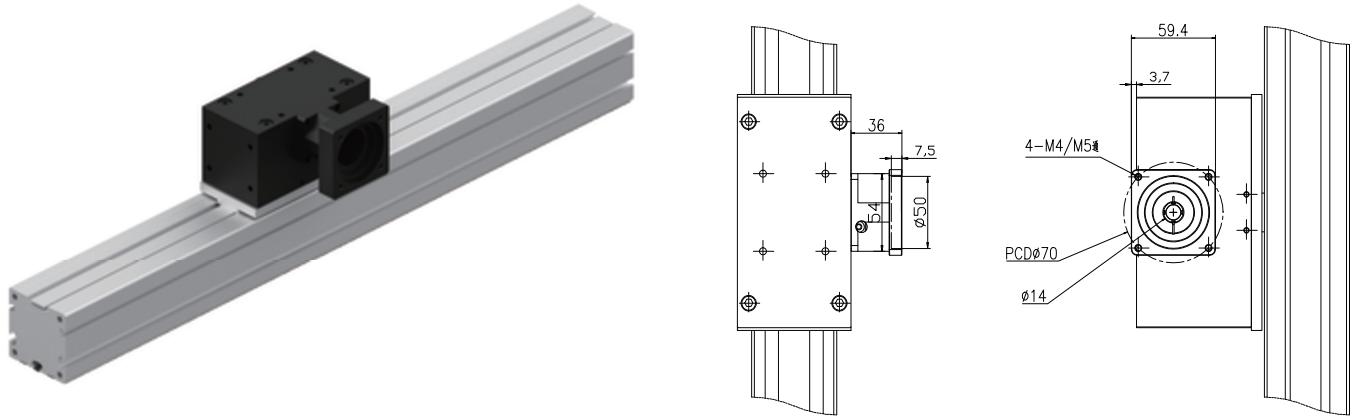
ITZ		60
Technical Parameters	Repetitive Accuracy (mm)	±0.05
	Pulley Lead (mm)	130
	Belt Type	5M-25
	Maximum Speed (mm/s)	1500
	Maximum Payload	Vertical(kg)
		10
	Max. No-load Driving Torque (N·m)	0.35
Basic Specification	Max. Driving Torque (N·m)	13.3
	Stroke(mm)	1-1500
	AC Servo Motor Output (W)	400
	Linear Guide	15#×1PCS
	Max Outline of Main Engine's Cross Section (mm)	80×150.5
Home Sensor		EE-SX672(NPN)

Note1: Refer to catalogue P217 for relevant parameters of auxiliary carriage option
Note2: Refer to catalogue P38 for relevant parameters of motor model
Note3: Hole dimension of coupling (reducer side)
Note4: Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	346	446	546	646	746	846	946	1046	1146	1246	1346	1446	1546	1646	1746
Weight (kg)	3.3	3.8	4.3	4.8	5.3	5.8	6.3	6.8	7.3	7.8	8.3	8.8	9.3	9.8	10.3

Dimentional Drawing of Motor Base



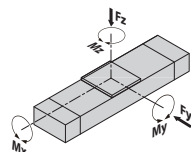
Note 1: Size above aims at Asia main motor brand, if customer and reduction box's size is not included, please note in order.
Note 2: This is optional accessory, please remark if needed.

Code

HTZ60	L130	500	DB_	D01	GB2	16	P3	A001
Item NO.	Stroke	Stroke	Auxiliary Block	Motor Mounting Direction	Motor type	Hole dimension of coupling	Photoelectric Sensor	Special Order No.
HTZ60	L130	100-1500,Gap100	Not filled: Stroke stop DB_ Auxiliary slider	D01 D02	GB2	*Note3	P1:1PC P2:2PCS P3:3PCS No Mark.No Sensor	No Mark.No Sensor



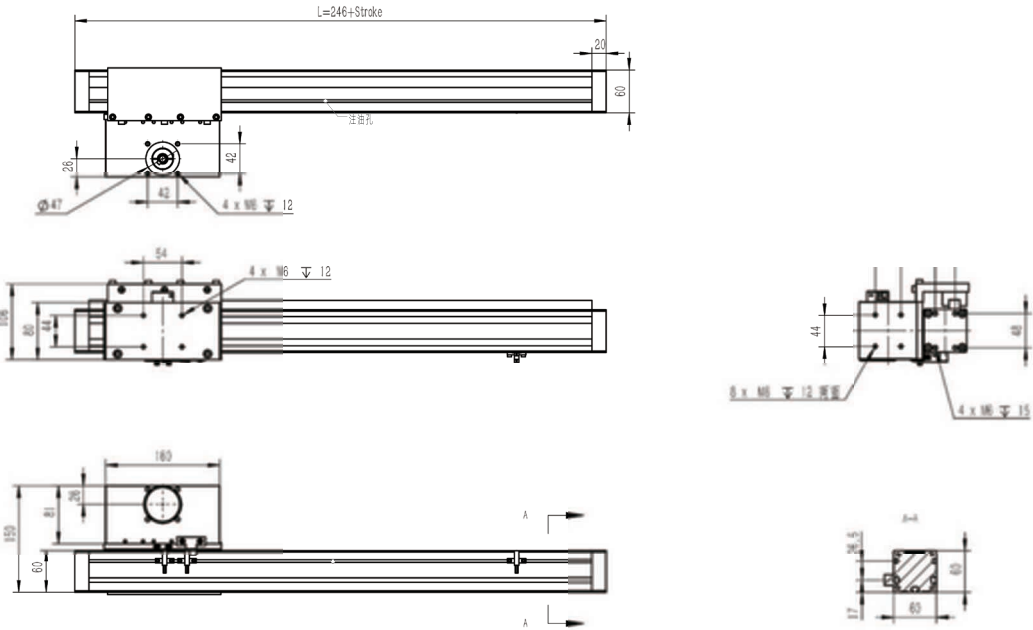
Max Static Forces And Torques



Type	60
■F(y)(N)	999
■F(z)(N)	2684
■M(x)(N·m)	20
■M(y)(N·m)	61
■M(z)(N·m)	61

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	346	446	546	646	746	846	946	1046	1146	1246	1346	1446	1546	1646	1746
Weight (kg)	6.7	7.34	8	8.65	9.3	9.95	10.6	11.25	11.9	12.56	13.2	13.86	14.51	15.16	15.81

Motor Mounting Position Version

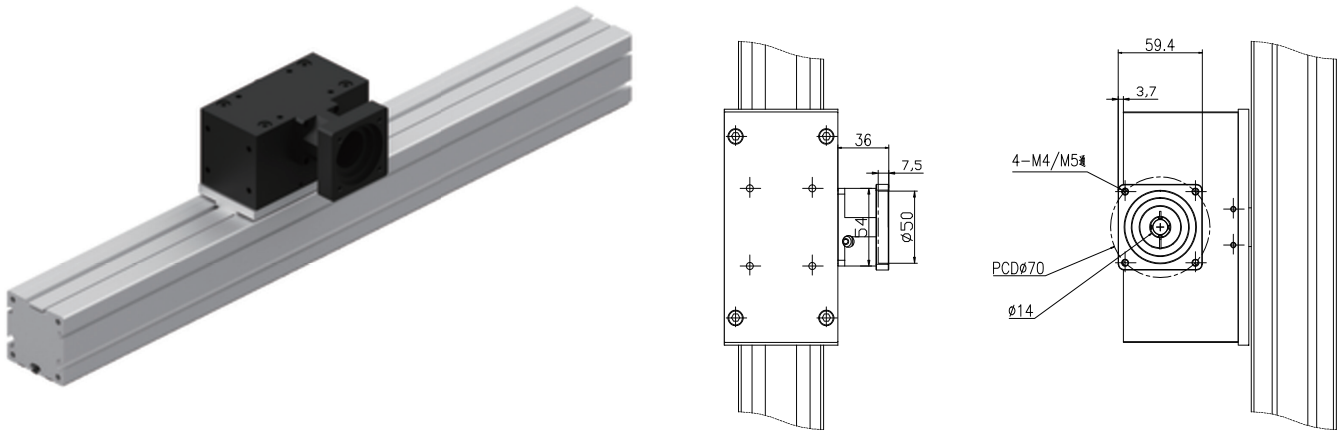
D01	D02

Basic Specification

HTZ			60
Technical Parameters	Repetitive Accuracy(mm)		±0.05
	Pulley Lead (mm)		130
	Belt Type		5M-25
	Maximum Speed (mm/s)		1500
	Maximum Payload	Vertical(kg)	10
	Max. No-load Driving Torque (N·m)		0.35
	Max. Driving Torque (N·m)		13.3
Basic Specification	Stroke(mm)		1-1500
	AC Servo Motor Output (W)		400
	Linear Guide		15#×2PCS
	Max Outline of Main Engine's Cross Section (mm)		106×150.5
	Home Sensor		EE-SX672(NPN)

Note1:Refer to catalogue P217 for relevant parameters of auxiliary carriage option
Note2:Refer to catalogue P38 for relevant parameters of motor model
Note3:Hole dimension of coupling (reducer side)
Note4:Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.

Dimentional Drawing of Motor Base



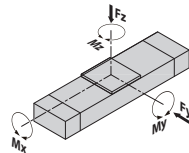
Note 1: Size above aims at Asia main motor brand, if customer and reduction box's size is not included, please note in order.
Note 2: This is optional accessory, please remark if needed.

Code

HTZ80	500	DB_ Note	D01	GB2	22 *Note3	P3	A001
Item NO.	Stroke	Auxiliary Block Not fitted DB_ Auxiliary slider	Motor Mounting Direction	Motor type	Hole dimension of coupling	Photoelectric Sensor	Special Order No.
HTZ80	100-1500,Gap100		D01	GB2 *Note2 GB3		P1:1PC P2:2PCS P3:3PCS No Mark:No Sensor	No Mark:No Sensor



Max Static Forces And Torques

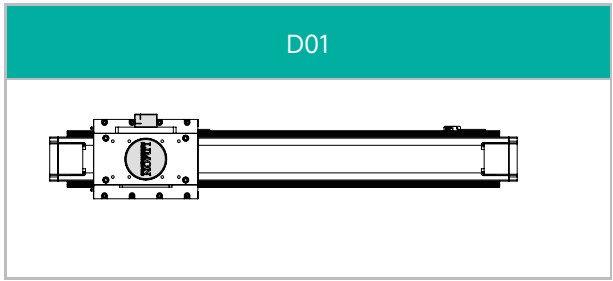


Type	80
■ F(y)(N)	8370
■ F(z)(N)	8370
■ M(x)(N·m)	140
■ M(y)(N·m)	400
■ M(z)(N·m)	400

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

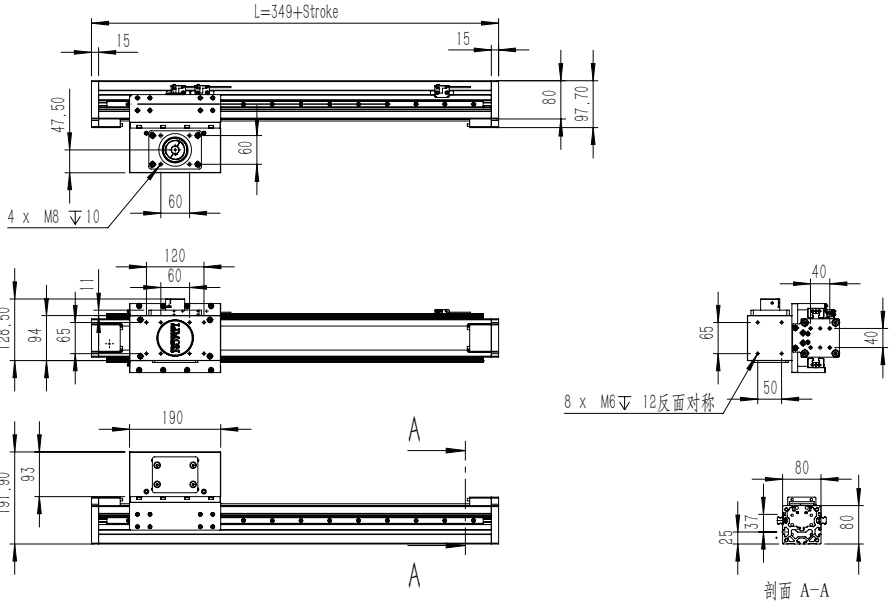
Motor Mounting Position Version



Basic Specification

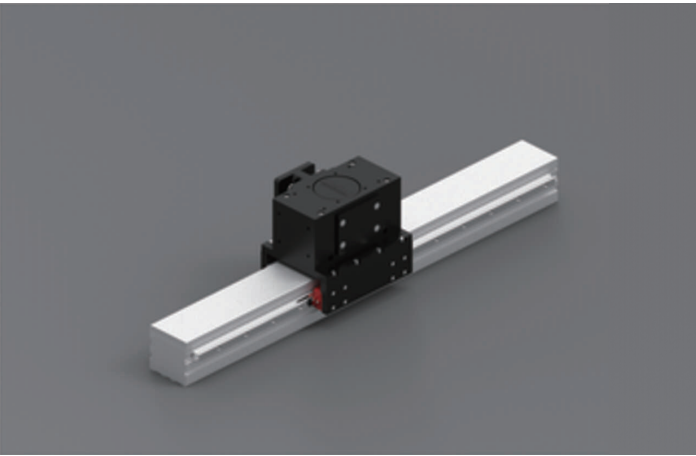
HTZ		80
Technical Parameters	Repetitive Accuracy(mm)	±0.05
	Pulley Lead (mm)	210
	Belt Type	5M-50
	Maximum Speed (mm/s)	2000
	Maximum Payload *Note4 Vertical(kg)	30
	Max. No-load Driving Torque (N·m)	0.9
	Max. Driving Torque (N·m)	49.8
Basic Specification	Stroke (mm)	1-1500
	AC Servo Motor Output (W)	400/750
	Linear Guide	15#×2PCS
	Max Outline of Main Engine's Cross Section (mm)	94×190
Home Sensor		PM-Y45(NPN)

Note1:Refer to catalogue P217 for relevant parameters of auxiliary carriage option
Note2:Refer to catalogue P38 for relevant parameters of motor model
Note3:Hole dimension of coupling (reducer side)
Note4:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.



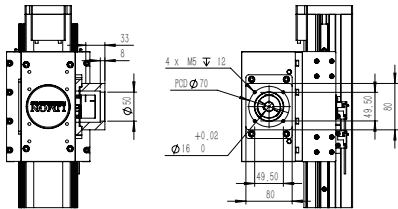
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
L	449	549	649	749	849	949	1049	1149	1249	1349	1449	1549	1649	1749	1849
Weight (kg)	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25	25.8

Dimentional Drawing of Motor Base

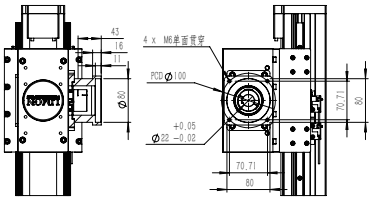


Note 1: This is optional accessory, please remark if needed.

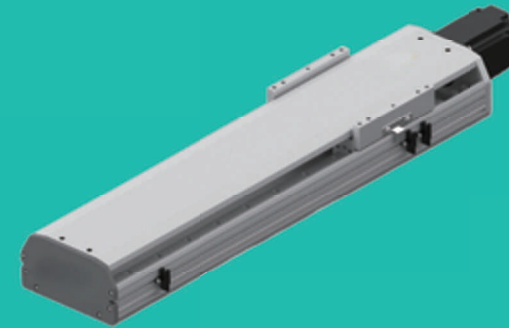
180-MDZ-GB2



180-MDZ-GB3



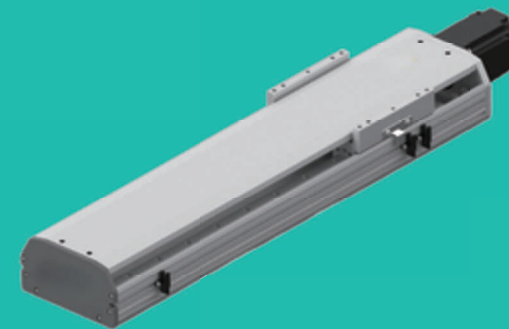
Sub-standard semi-tight screw drive type



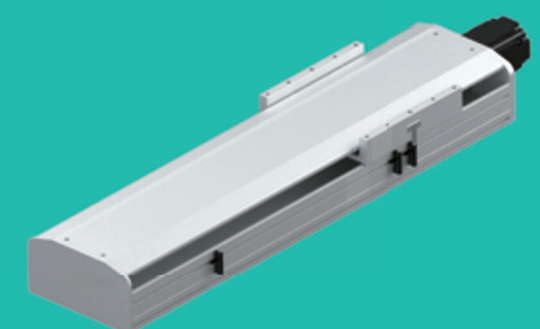
YSO 135



YSO 135G



YSO 170



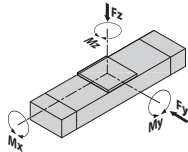
YSO 220

Code

YSO135	L10	500	Note DB_	2P	MS	M40	P3	A001
Item NO.	Ball Screw Lead	Stroke	Auxiliary Block	Block Quantity	Motor Mounting Direction	Motor Brand、Power Output	Photoelectric Sensor	Special Order No.
	05	100-1250, Gap50	Not Used	2P	Straight Motor Mounting	M Mitsubishi 10 -	P1:1PC	No Mark/No Sensor
	10		Not Used	4P	Left Motor Mounting	P Panasonic 20 200W	P2:2PCS	
	16		Not Used		Right Motor Mounting	Y Yaskawa 40 400W	P3:3PCS	
	20		Not Used		Down Motor Mounting	D Delta 75 -	No Mark/No Sensor	



Max Static Forces And Torques



Type	2P	4P
■ F(y)(N)	2684	5370
■ F(z)(N)	2684	5370
■ M(x)(N·m)	95	142
■ M(y)(N·m)	32	104
■ M(z)(N·m)	172	346

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

Motor Mounting Position Version

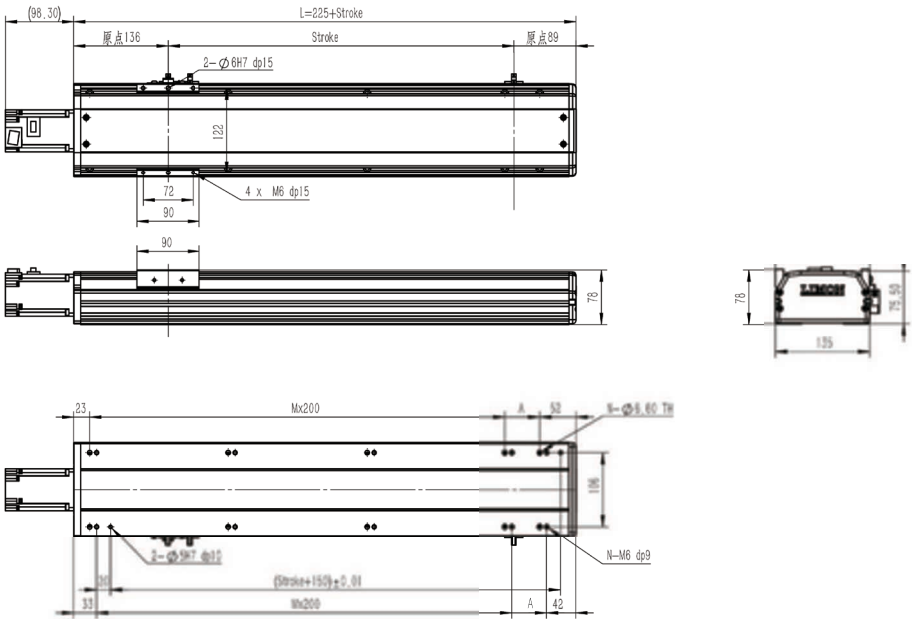
MS Type Straight Motor Mounting	ML Type Left Motor Mounting	MR Type Right Motor Mounting	MD Type Down Motor Mounting

Basic Specification

YSO135			2P (Block quantity)				4P(Block quantity)			
Technical Parameters	Repetitive Accuracy(mm)		±0.005							
	Ball Screw Lead(mm)		5	10	16	20	5	10	16	20
	Maximum Speed(mm/s)		250	500	800	1000	250	500	800	1000
	Maximum Payload	Horizontal(kg)	60	45	40	30	100	80	60	45
		Vertical(kg)	20	15	12	8	50	30	22	16
	Rated Thrust(N)		1388	694	433	347	1388	694	433	347
	Max. No-load Driving Torque(N·m)		0.12	0.12	0.2	0.22	0.12	0.15	0.2	0.22
Max. Driving Torque(N·m)		10.9	12.5	14	16.7	10.9	12.5	14	16.7	
Basic Specification	Stroke(mm)		100-1250 mm/ 50 Pitch							
	AC Servo Motor Output(W)		200/400							
	Ball Screw Diameter(mm)		Ø16 / Ø20							
	Linear Guide(mm)		15#×2 PCS							
	Max Outline of Main Engine's Cross Section(mm)		135×78							
	Home Sensor		EE-SX672(NPN)							

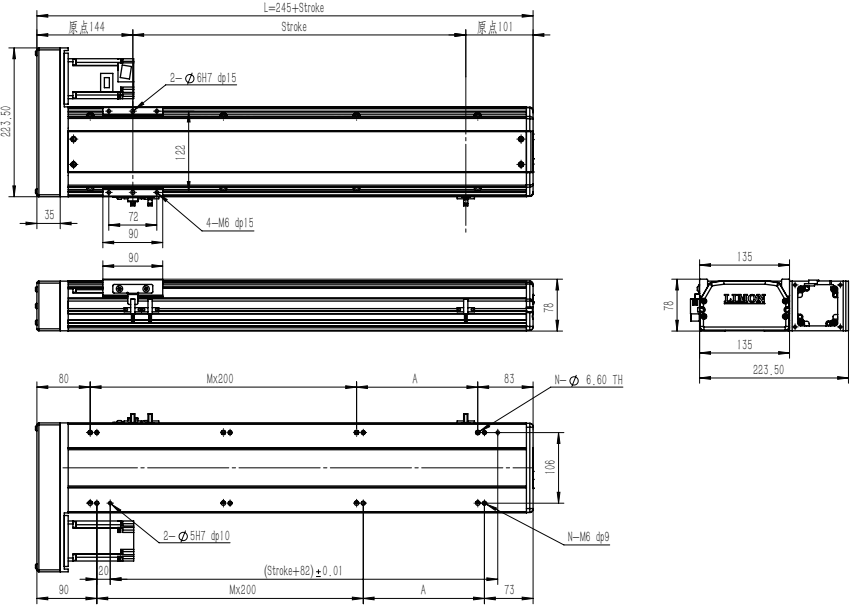
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

#Note 2: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.



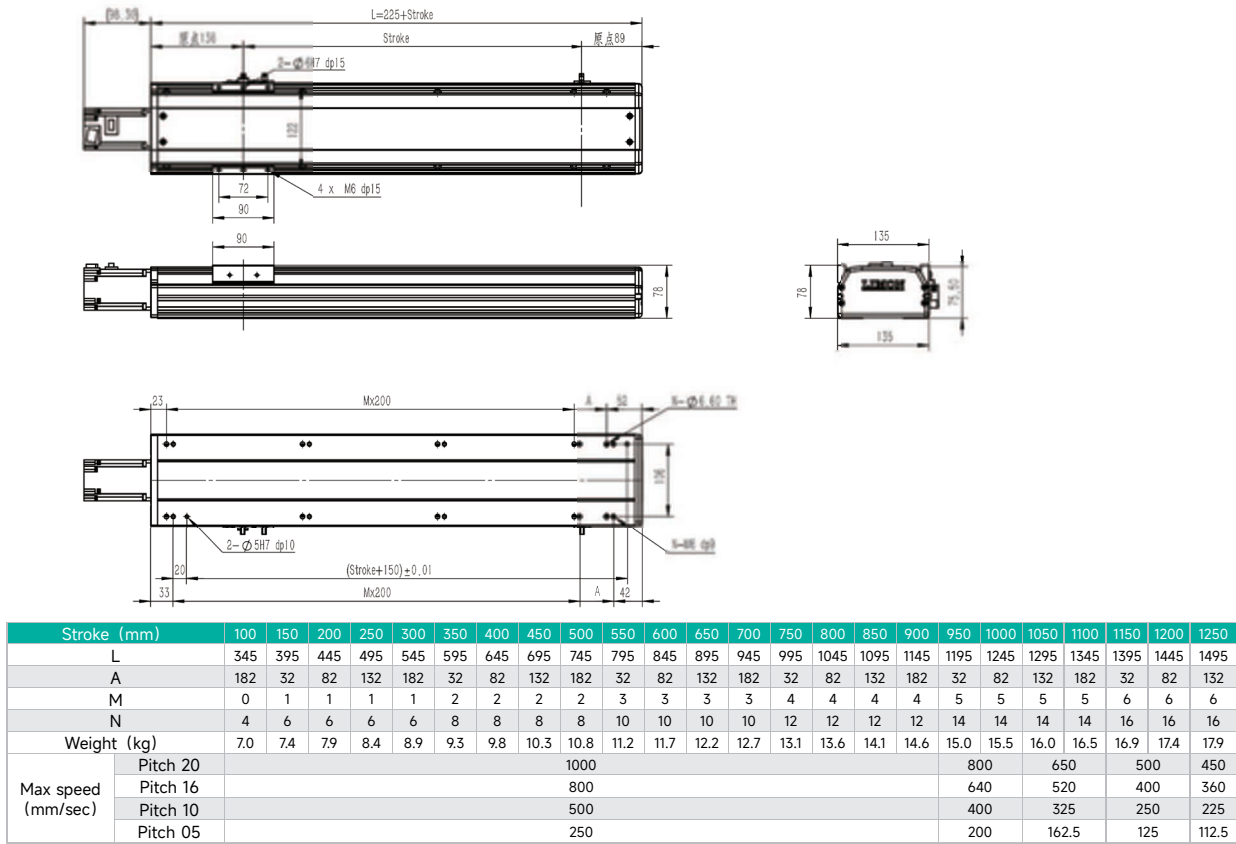
Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	1425	1475
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight (kg)	6.0	6.4	6.9	7.4	7.9	8.3	8.8	9.3	9.8	10.2	10.7	11.2	11.7	12.1	12.6	13.0	13.6	14.0	14.5	15.0	15.5	15.9	16.4	16.9
Max speed (mm/sec)	Pitch 20	1000																	800		650		500	
	Pitch 16	800																	640		520		400	
	Pitch 10	500																	400		325		250	
	Pitch 05	250																	200		162.5		125	

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

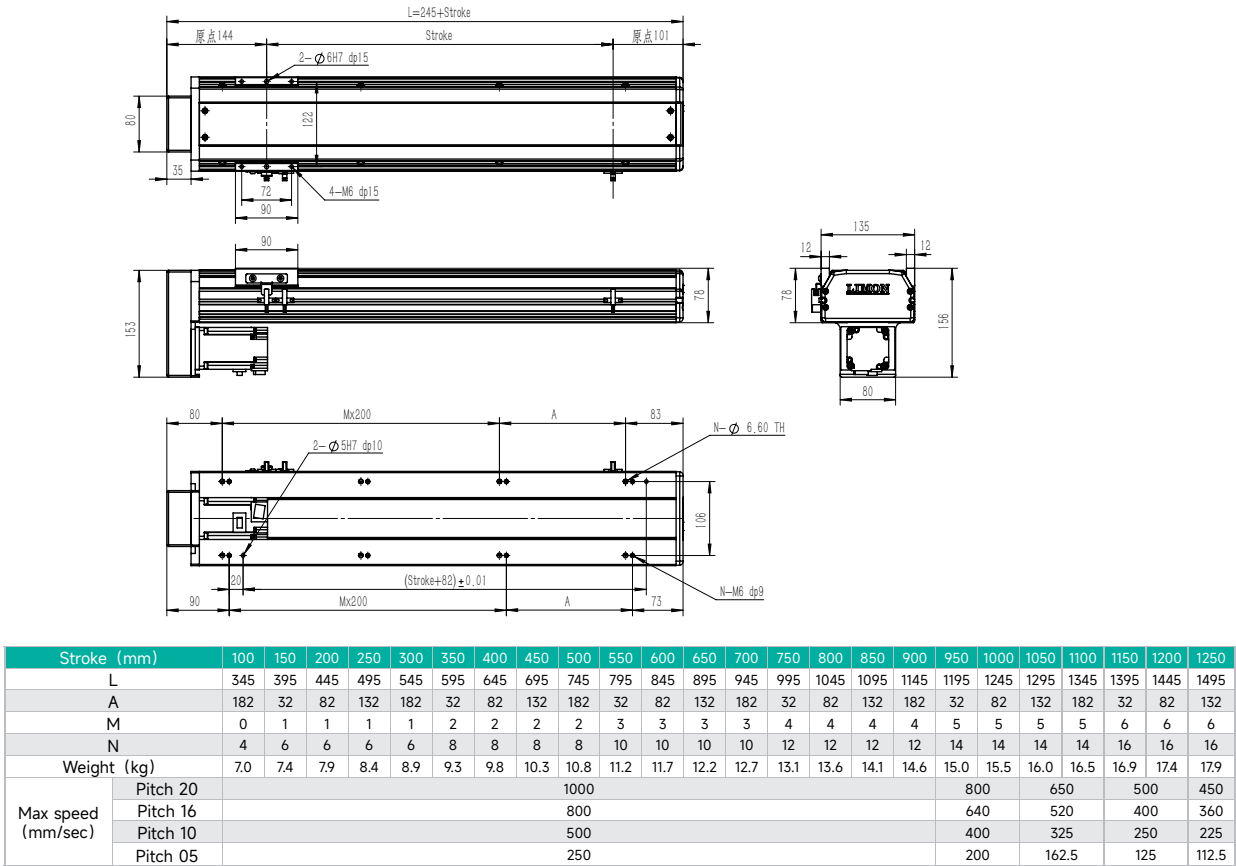


Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495
A	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
Weight (kg)	7.0	7.4	7.9	8.4	8.9	9.3	9.8	10.3	10.8	11.2	11.7	12.2	12.7	13.1	13.6	14.1	14.6	15.0	15.5	16.0	16.5	16.9	17.4	17.9
Max speed (mm/sec)	Pitch20	1000																	800		650		500	
	Pitch16	800																	640		520		400	
	Pitch10	500																	400		325		250	
	Pitch05	250																	200		162.5		125	

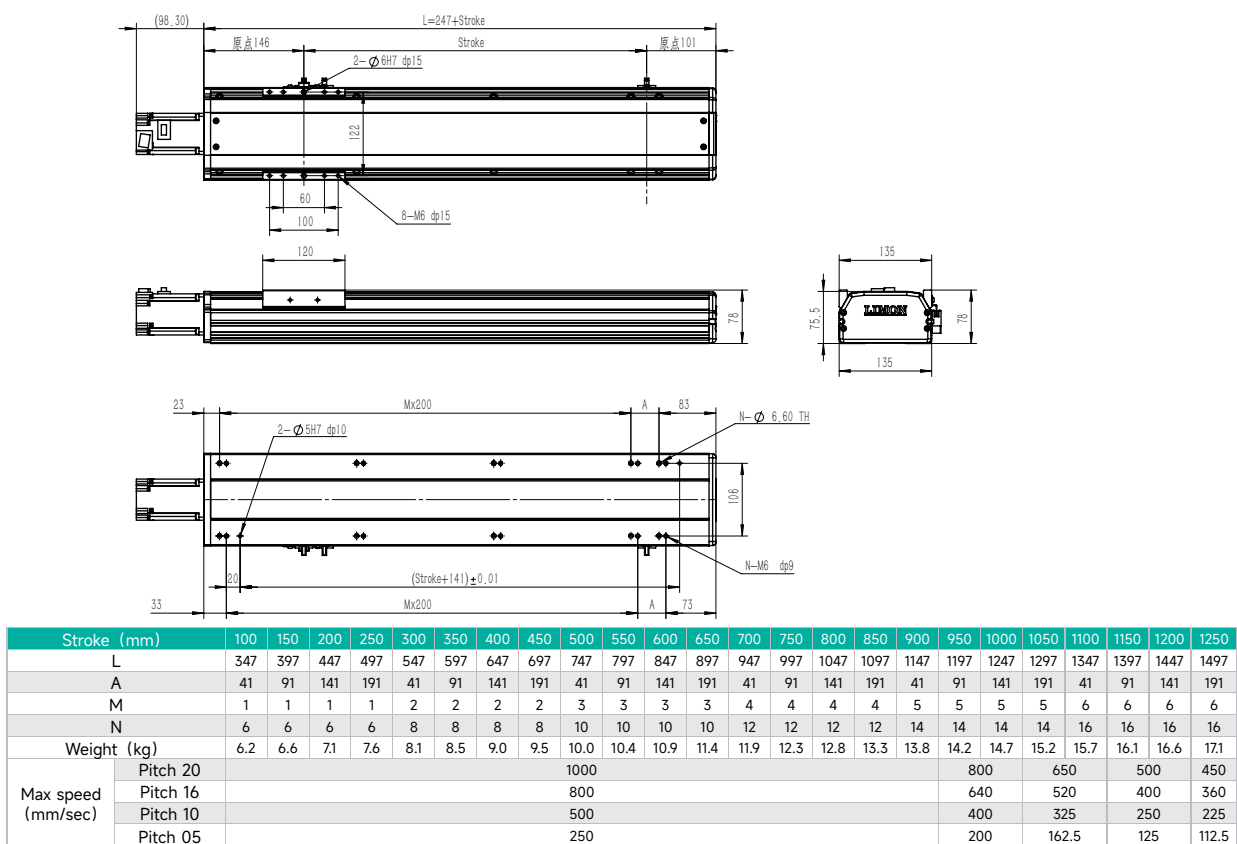
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



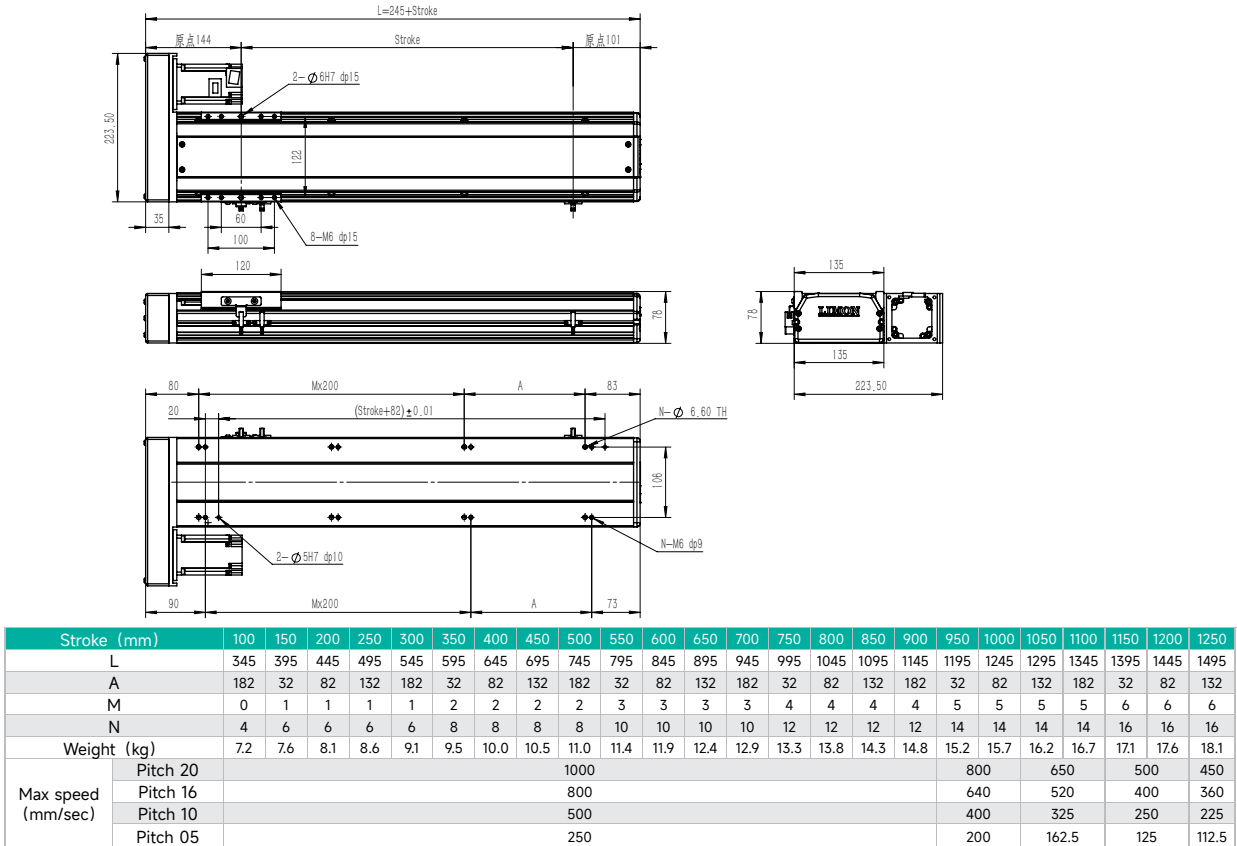
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



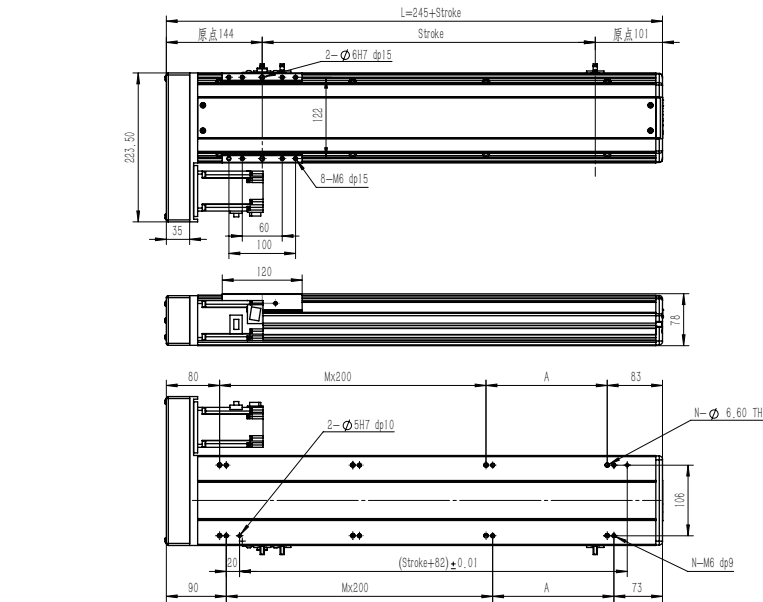
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

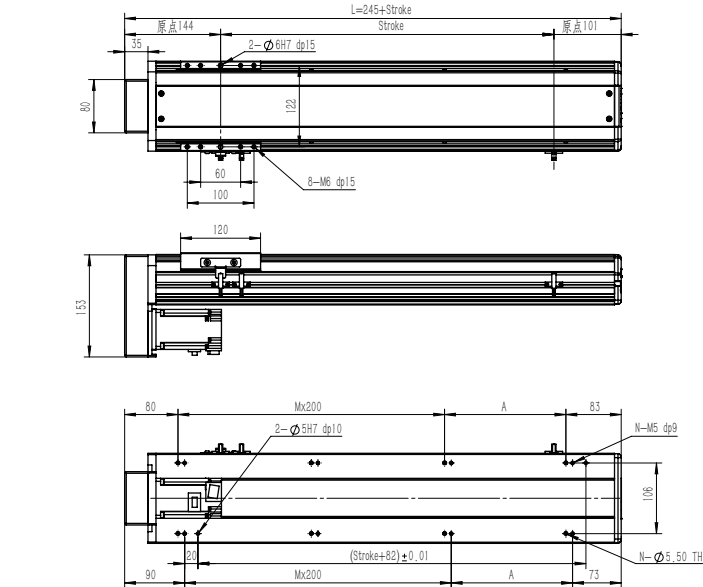


#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495
A	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
Weight (kg)	7.2	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	11.4	11.9	12.4	12.9	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.1	17.6	18.1
Max speed (mm/sec)	Pitch 20																		800	650	500	450		
	Pitch 16																		640	520	400	360		
	Pitch 10																		400	325	250	225		
	Pitch 05																		200	162.5	125	112.5		

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



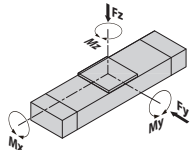
Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	345	395	445	495	545	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495
A	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132	182	32	82	132
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16
Weight (kg)	7.2	7.6	8.1	8.6	9.1	9.5	10.0	10.5	11.0	11.4	11.9	12.4	12.9	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.1	17.6	18.1
Max speed (mm/sec)	Pitch 20																		800	650	500	450		
	Pitch 16																		640	520	400	360		
	Pitch 10																		400	325	250	225		
	Pitch 05																		200	162.5	125	112.5		

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Code

YS0135G	L10	500	DB	4P	MS	M40	P3	A001
本体型号 Item NO.	Ball Screw Lead	Stroke	Auxiliary Block	Block Quantity	Motor Mounting Direction	Motor Brand, Power Output	Photoelectric Sensor	Special Order No.
	05 10 16 20	100-1250, Gap50	Note Not Used Single slider PB_Auxiliary Block	4P	MS: Straight Motor Mounting ML: Left Motor Mounting MR: Right Motor Mounting MD: Down Motor Mounting	M: Mitsubishi 10 - P: Panasonic 20 200W Y: Yaskawa 40 400W D: Delta 75 - JK: -	P1: 1PC P2: 2PCS P3: 3PCS No Mark:No Sensor	No Mark:No Sensor

Max Static Forces And Torques



Type	4P
■ F(y)(N)	5370
■ F(z)(N)	5370
■ M(x)(N·m)	142
■ M(y)(N·m)	104
■ M(z)(N·m)	346

All forces and torques relate to the following:

$$\frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} + \frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} \leq 1$$

Motor Mounting Position Version

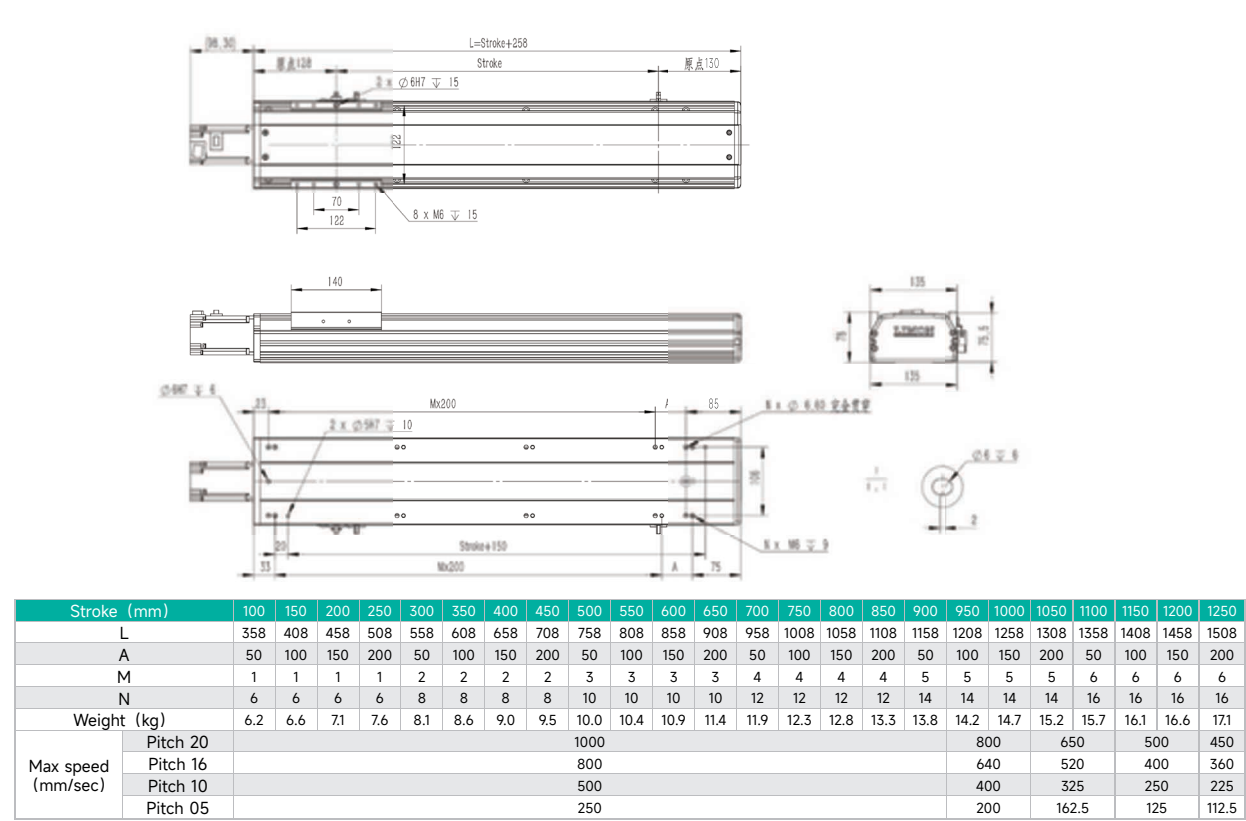
MS Type Straight Motor Mounting	ML Type Left Motor Mounting	MR Type Right Motor Mounting	MD Type Down Motor Mounting

Basic Specification

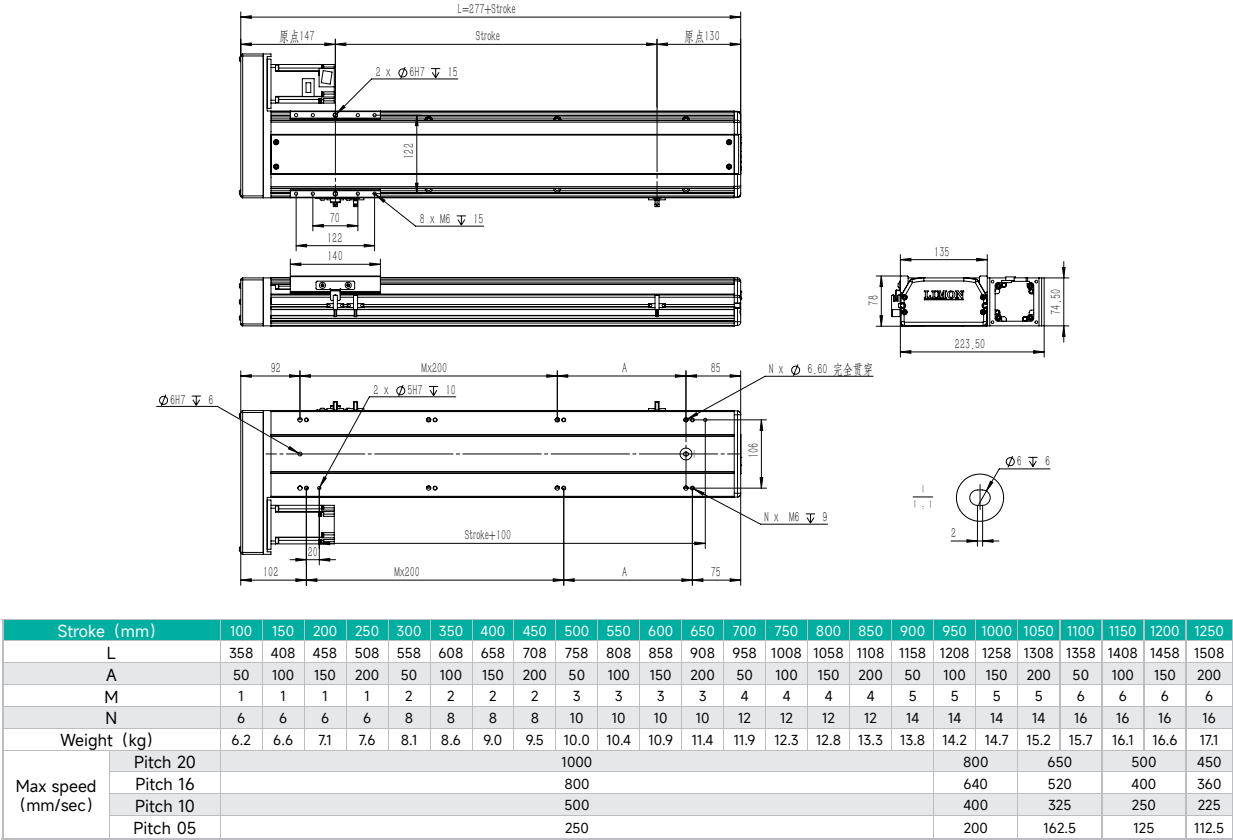
YSO135G			4P(Block quantity)			
Technical Parameters	Repetitive Accuracy(mm)		±0.005			
	Ball Screw Lead(mm)		5	10	16	20
	Maximum Speed(mm/s)		250	500	800	1000
	Maximum Payload	Horizontal(kg)	100	80	60	45
		Vertical(kg)	50	30	22	16
	Rated Thrust(N)		1388	694	433	347
	Max. No-load Driving Torque(N·m)		0.12	0.15	0.2	0.22
Max. Driving Torque(N·m)		10.9	12.5	14	16.7	
Basic Specification	Stroke(mm)		100-1250 mm/ 50 Pitch			
	AC Servo Motor Output(W)		200/400			
	Ball Screw Diameter(mm)		Ø16 / Ø20			
	Linear Guide(mm)		15#×2 PCS			
	Max Outline of Main Engine's Cross Section(mm)		135×78			
	Home Sensor		EE-SX672(NPN)			

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

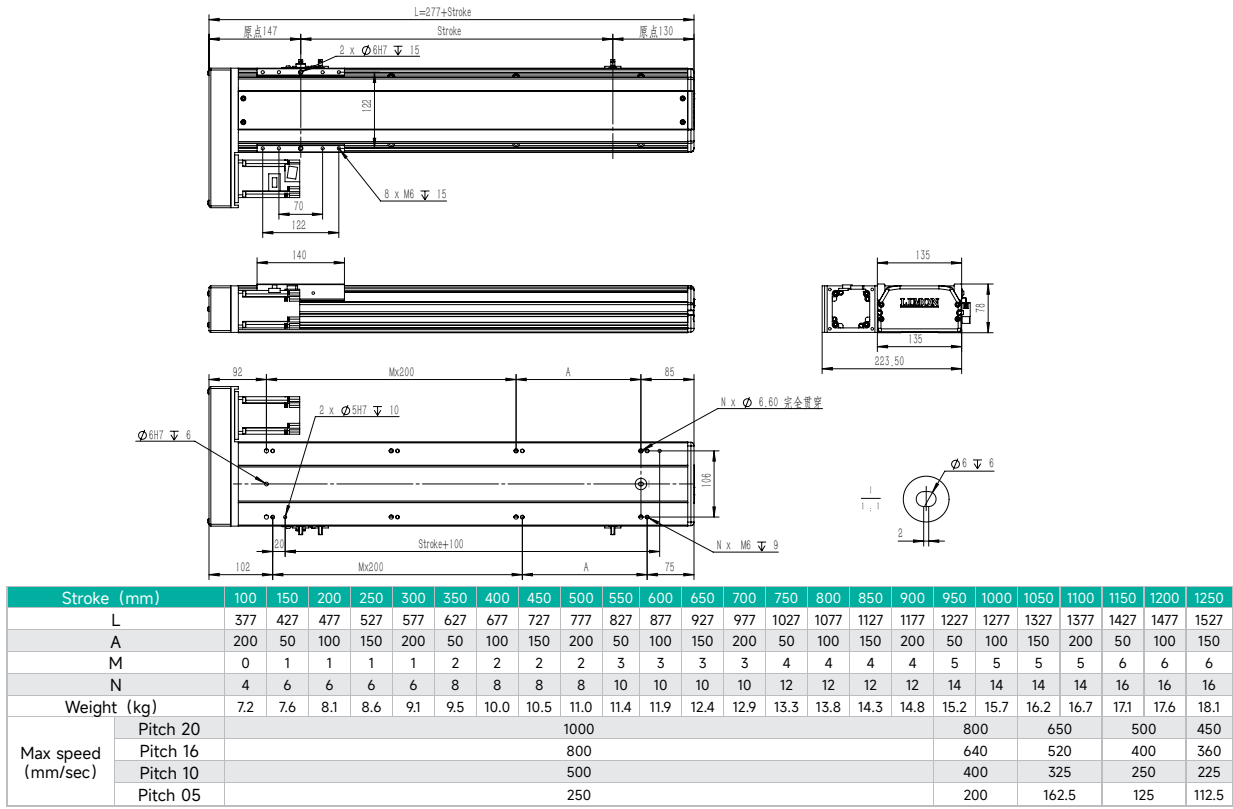
#Note 2: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.



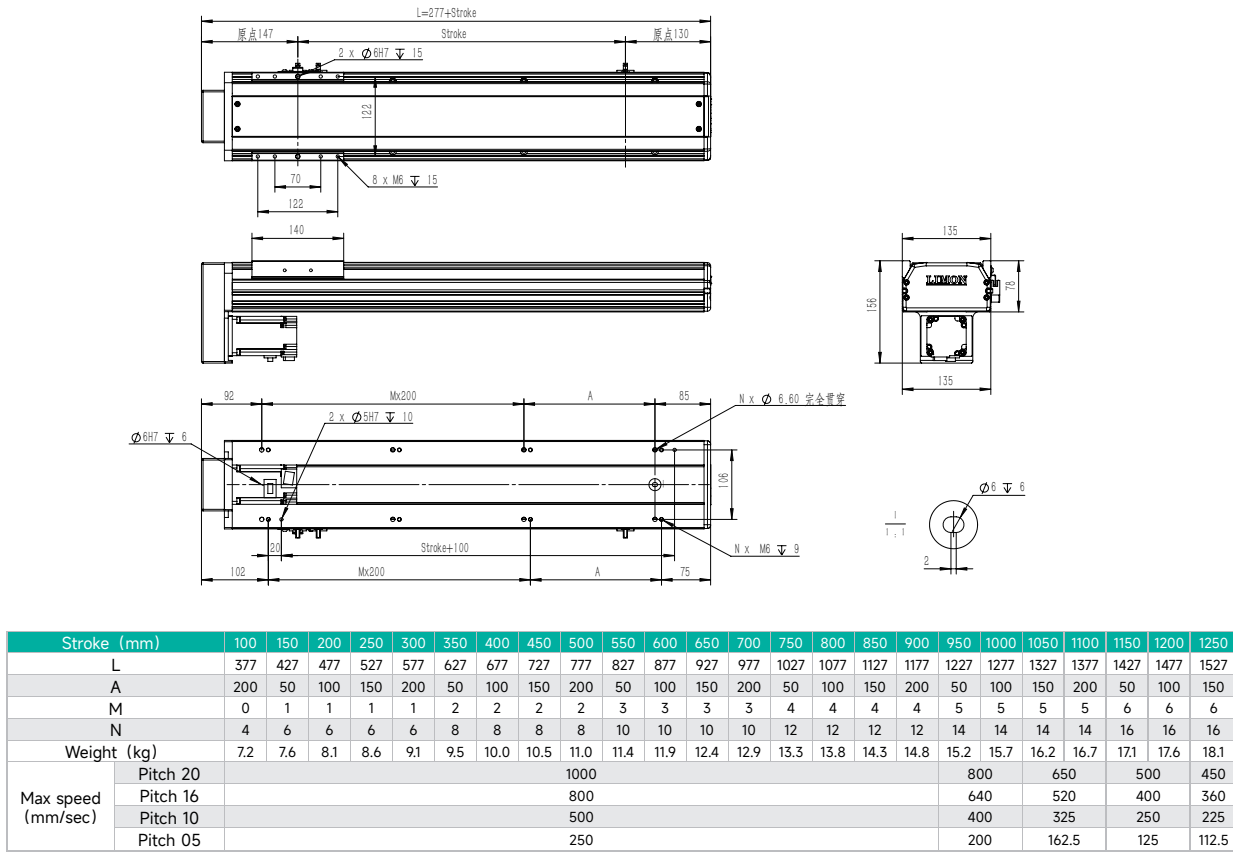
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



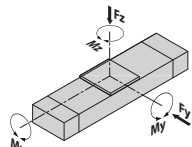
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Code

YSO170	L10	500	DB_注	4P	MS	M40	P3	A001
Item NO.	Ball Screw Lead	Stroke	Auxiliary Block Not filled: Single slider DB: Auxiliary slider	Block Quantity	Motor Mounting Direction	Motor Brand、Power Output	Photoelectric Sensor	Special Order No.
	05	100-1250, Gap50		4P	Straight Motor Mounting	M Mitsubishi 10 -	P1:1PC	No Mark:No Sensor
	10				Left Motor Mounting	P Panasonic 20 200W	P2:2PCS	
	20				Right Motor Mounting	Y Yaskawa 40 400W	P3:3PCS	
	40				Down Motor Mounting	D Delta 75 750W	No Mark:No Sensor	



Max Static Forces And Torques

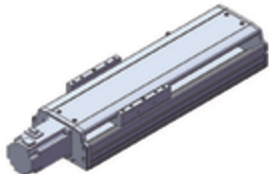
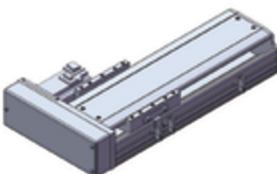
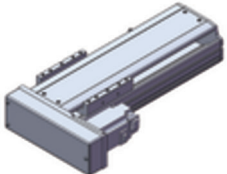
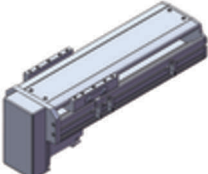


Type	4P
■F(y)(N)	7463
■F(z)(N)	7463
■M(x)(N·m)	339
■M(y)(N·m)	178
■M(z)(N·m)	742

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

Motor Mounting Position Version

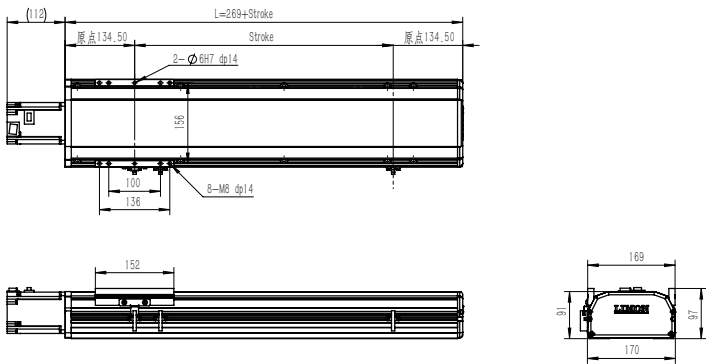
MS Type Straight Motor Mounting	ML Type Left Motor Mounting	MR Type Right Motor Mounting	MD Type Down Motor Mounting
			

Basic Specification

YSO170			4P(Block Quantity)			
Technical Parameters	Repetitive Accuracy(mm)		±0.005			
	Ball Screw Lead(mm)		5	10	20	40
	Maximum Speed(mm/s) ^{*Note1}		250	500	1000	2000
	Maximum Payload ^{*Note2}	Horizontal(kg)	120	100	85	60
		Vertical(kg)	60	50	35	20
	Rated Thrust(N)		2563	1281	640	320
	Max. No-load Driving Torque(N·m)		0.1	0.12	0.16	0.2
Max. Driving Torque(N·m)		10.9	12.5	14	16	
Basic Specification	Stroke(mm)		100-1250 mm/ 50 Pitch			
	AC Servo Motor Output(W)		400 / 750			
	Ball Screw Diameter(mm)		Ø20 / Ø25			
	Linear Guide(mm)		20#×2 PCS			
	Max Outline of Main Engine's Cross Section(mm)		170×97			
	Home Sensor		EE-SX672(NPN)			

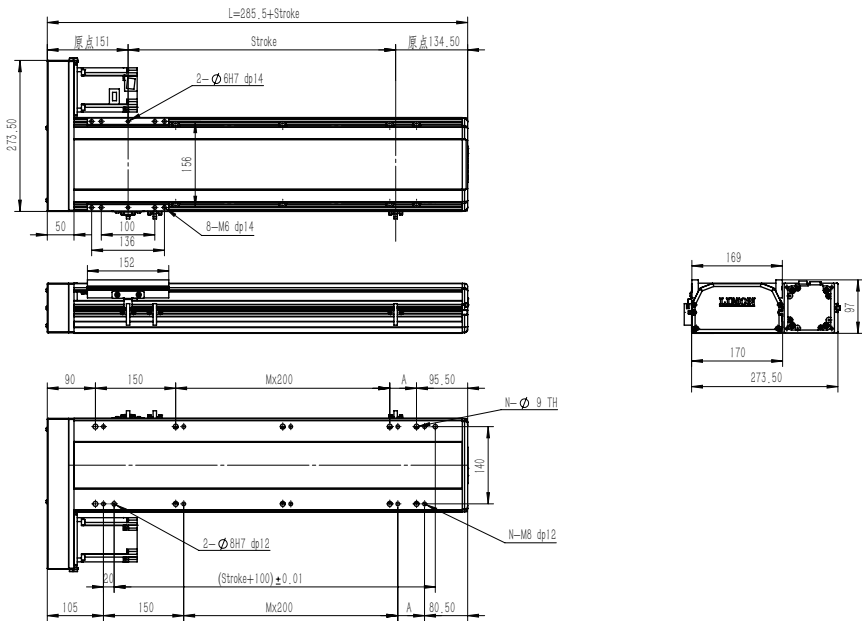
#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

#Note 2: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.



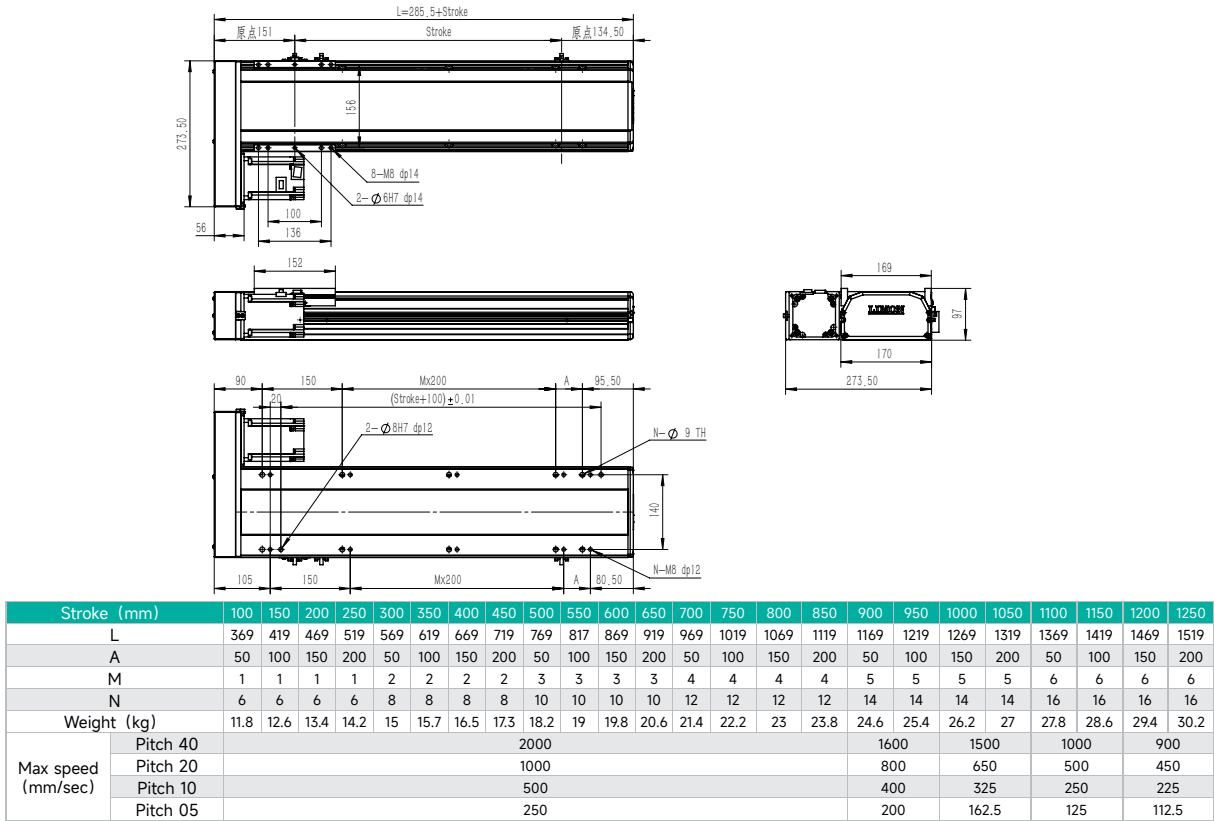
Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	369	419	469	519	569	619	669	719	769	817	869	919	969	1019	1069	1119	1169	1219	1269	1319	1369	1419	1469	1519
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight (kg)	11.8	12.6	13.4	14.2	15	15.7	16.5	17.3	18.2	19	19.8	20.6	21.4	22.2	23	23.8	24.6	25.4	26.2	27	27.8	28.6	29.4	30.2
Max speed (mm/sec)	Pitch 40	2000															1600	1500	1000	900				
	Pitch 20	1000															800	650	500	450				
	Pitch 10	500															400	325	250	225				
	Pitch 05	250															200	162.5	125	112.5				

#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

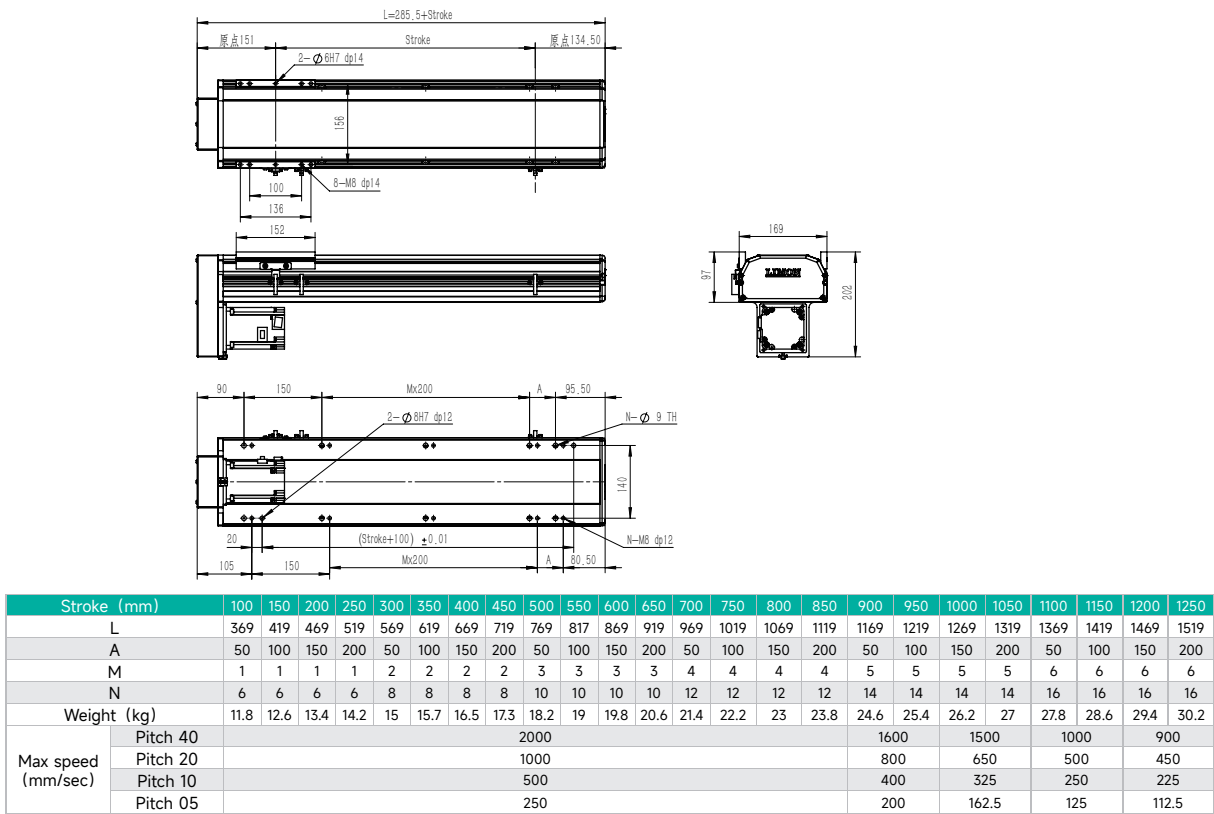


Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	385.5	435.5	485.5	535.5	585.5	635.5	685.5	735.5	785.5	835.5	885.5	935.5	985.5	1035.5	1085.5	1135.5	1185.5	1235.5	1285.5	1335.5	1385.5	1435.5	1485.5	1535.5
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight (kg)	11.8	12.6	13.4	14.2	14.9	15.7	16.5	17.3	18.0	18.8	19.6	20.4	21.1	21.9	22.7	23.5	24.2	25.0	25.8	26.6	27.4	28.2	29.0	29.8
Max speed (mm/sec)	Pitch 40	2000															1600	1500	1000	900				
	Pitch 20	1000															800	650	500	450				
	Pitch 10	500															400	325	250	225				
	Pitch 05	250															200	162.5	125	112.5				

#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

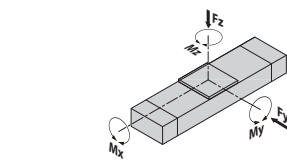


#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Code

YSO220	L10	500	DB_	4P	MS	M75	P3	A001
Item NO.	Ball Screw Lead	Stroke	Auxiliary Block	Block Quantity	Motor Mounting Direction	Motor Brand、Power Output	Photoelectric Sensor	Special Order No.
	05	50-1500 Gap50	Not filled Stroke slider Fill Auxiliary Block	4P	MS: Straight Motor Mounting ML: Left Motor Mounting MR: Right Motor Mounting MD: Down Motor Mounting	M P Y D Mitsubishi Panasonic Yaskawa Delta 10 20 40 75 750W 1K	P1:1PC P2:2PCS P3:3PCS No Mark:No Sensor	No Mark:No Sensor

Max Static Forces And Torques



Type	4P
■ F(y)(N)	11923.1
■ F(z)(N)	11923.1
■ M(x)(N·m)	1203.8
■ M(y)(N·m)	528.5
■ M(z)(N·m)	760.8

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

Motor Mounting Position Version

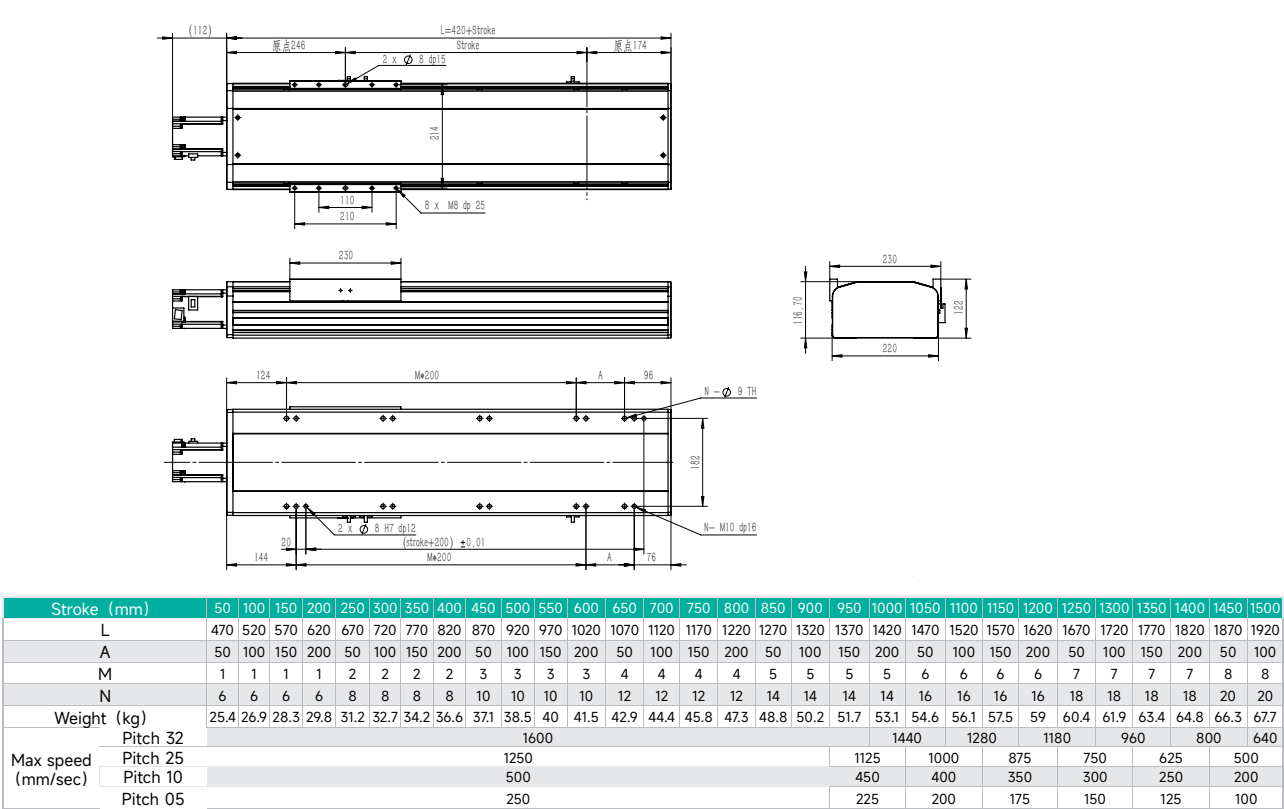
MS Type Straight Motor Mounting	ML Type Left Motor Mounting	MR Type Right Motor Mounting	MD Type Down Motor Mounting

Basic Specification

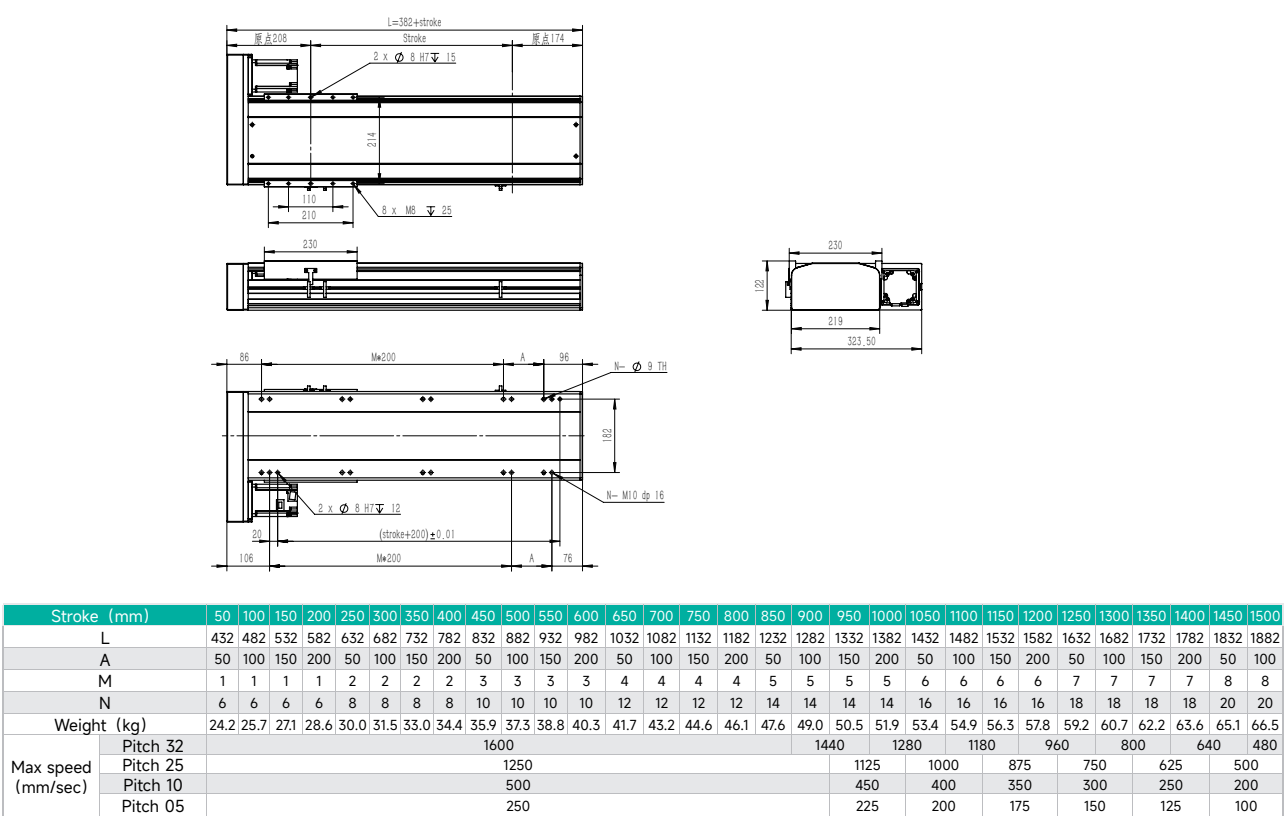
YSO220			4P(Block Quantity)			
Technical Parameters	Repetitive Accuracy(mm)		±0.005			
	Ball Screw Lead(mm)		5	10	25	32
	Maximum Speed(mm/s)		250	500	1250	1600
	Maximum Payload	Horizontal(kg)	160	160	140	80
		Vertical(kg)	80	70	45	30
	Rated Thrust(N)		2563	1281	640	320
	Max. No-load Driving Torque(N·m)		0.1	0.12	0.16	0.2
	Max.Driving Torque(N·m)		10.9	12.5	14	16
Basic Specification	Stroke(mm)		50-1500 mm/ 50 Pitch			
	AC Servo Motor Output(W)		750			
	Ball Screw Diameter(mm)		Ø25 / Ø32			
	Linear Guide(mm)		25#×2 PCS			
	Max Outline of Main Engine's Cross Section(mm)		230×122			
	Home Sensor		EE-SX672(NPN)			

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

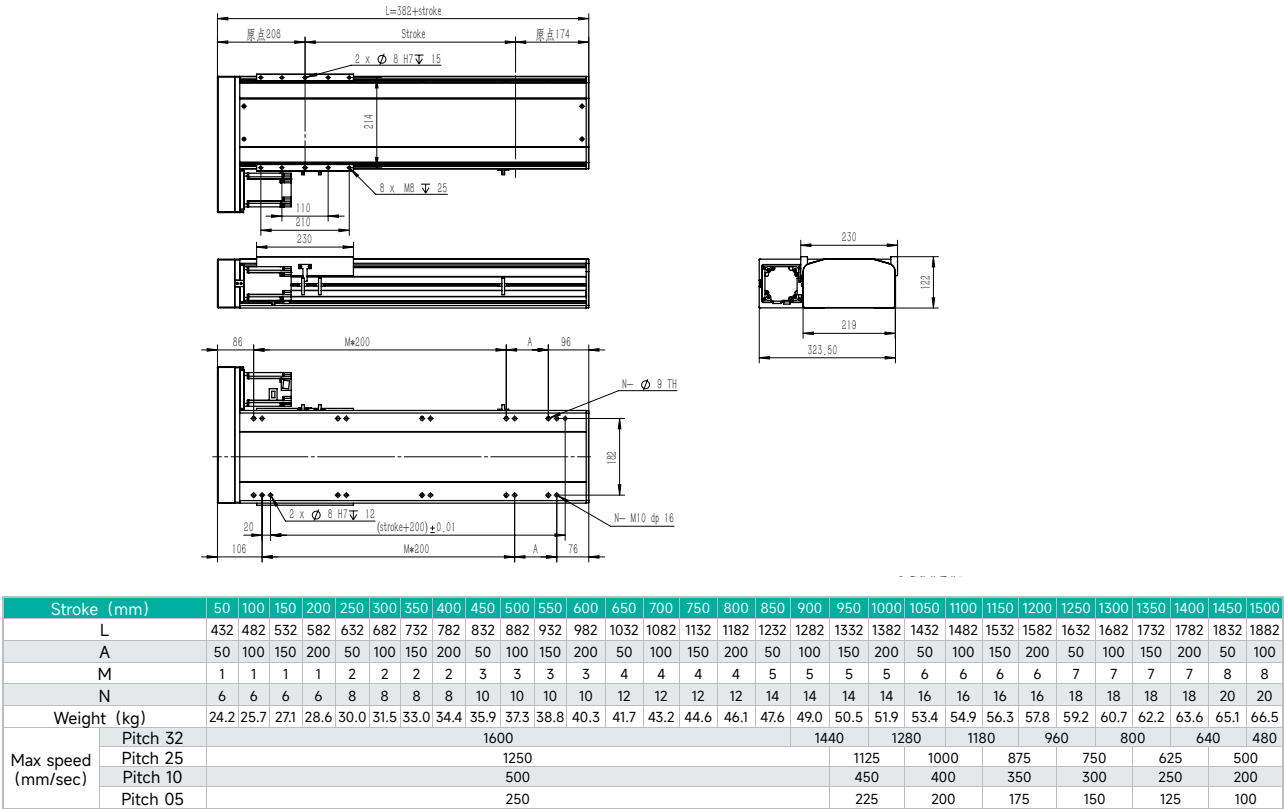
#Note 2: Date changes relevently according to different torque and accelarated speed.Please refer to the LIMON calculate software.



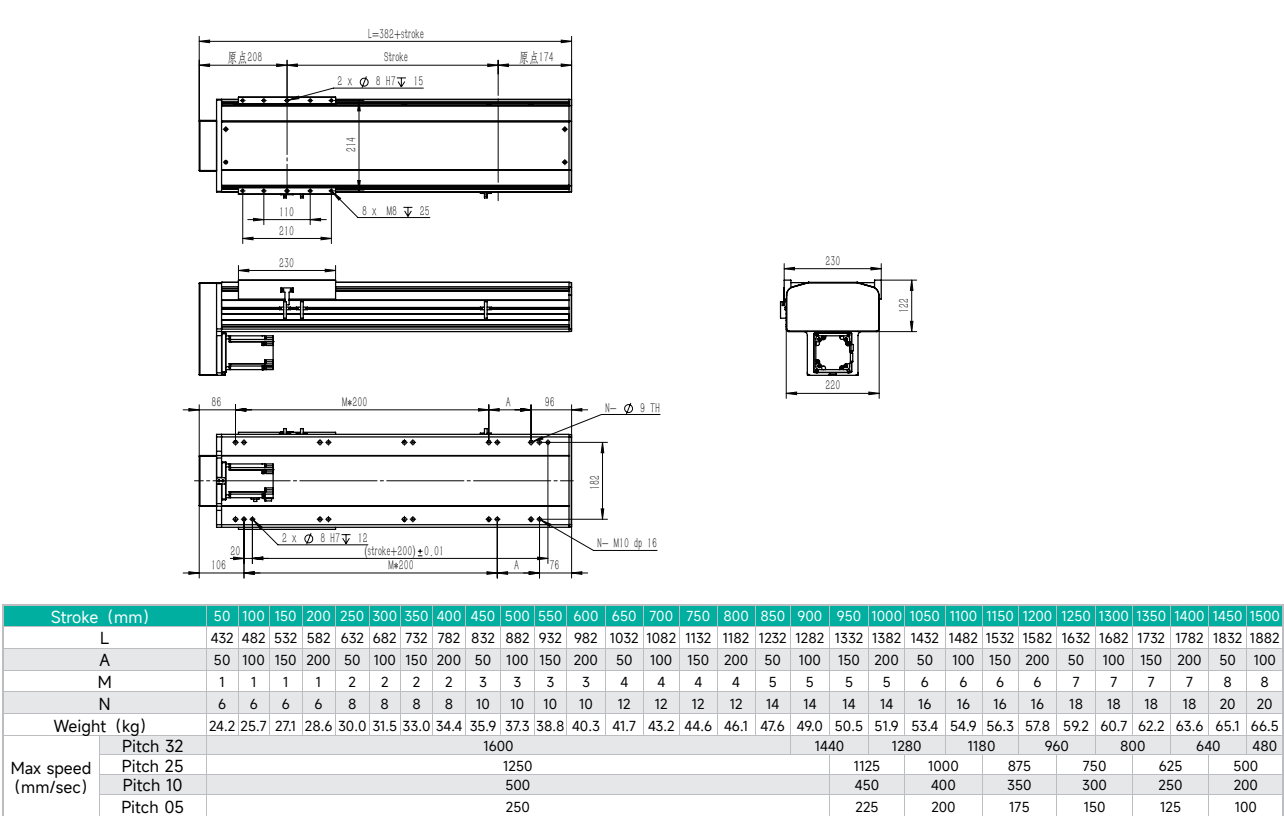
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

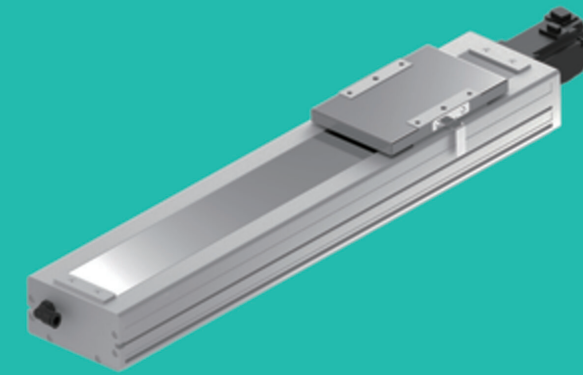


#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

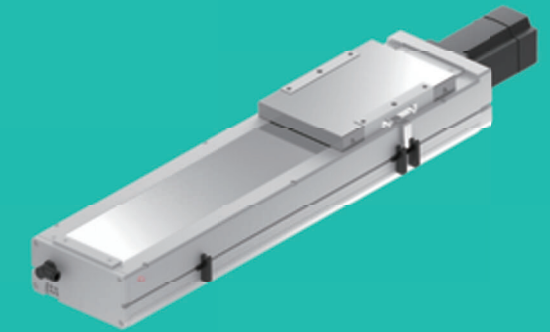


#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

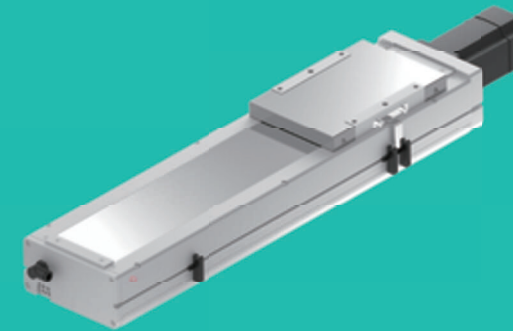
Sub-standard full-tight screw drive type



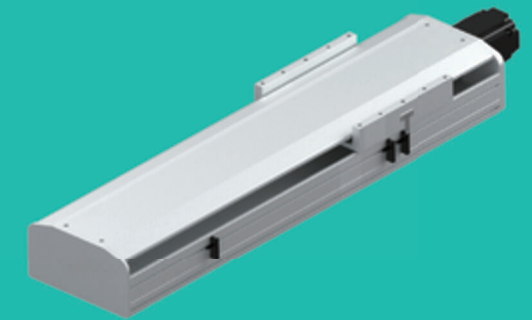
YSC 135



YSC 135G



YSC 170



YSC 220

Code

YSC135

Item NO.

L10

Ball screw Lead

05
10
16
32

500

Stroke

100-1250, Gap50

Note

DB

Auxiliary Block

Not filled: Single slider
DB____Auxiliary slider

4P

Block Quantity

4P

MS

Motor Mounting Direction

Straight Motor Mounting
Left Motor Mounting
Right Motor Mounting
Down Motor Mounting

M40

Motor Brand, Power Output

M Mitsubishi 10 -
P Panasonic 20 200W
Y Yaskawa 40 400W
D Delta 75 -
1K -

P3

Photoelectric Sensor

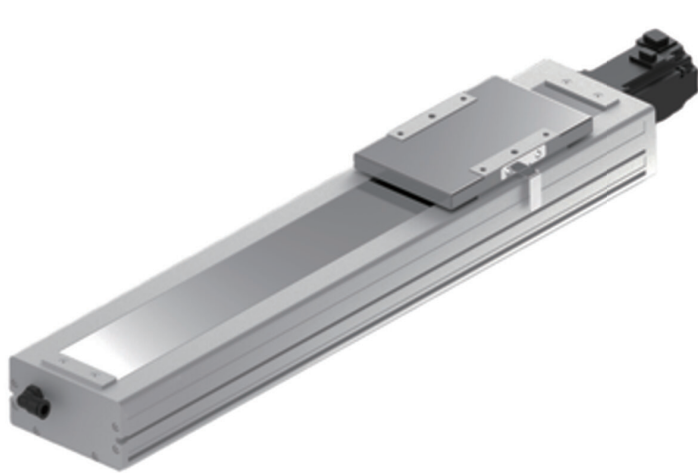
P1:1PC
P2:2PCS
P3:3PCS
No Mark:No Sensor

A001

Special Order No.

No Mark:No Sensor

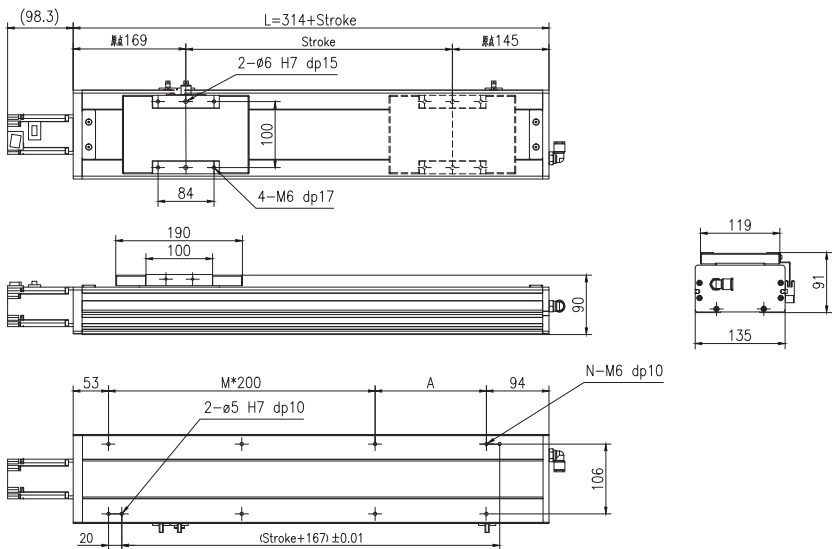
Max Static Forces And Torques



Type	2P	4P
■F(y)(N)	2684	5370
■F(z)(N)	2684	5370
■M(x)(N·m)	95	142
■M(y)(N·m)	32	104
■M(z)(N·m)	172	346

All forces and torques relate to the following:

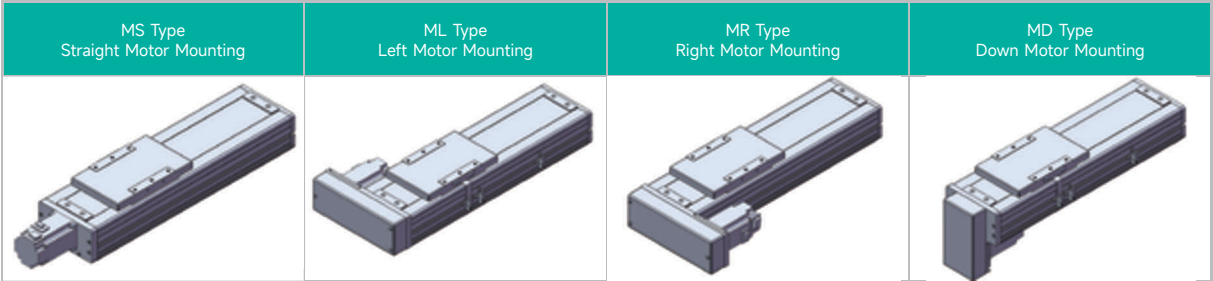
$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$



Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	414	464	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
Weight (kg)	7.6	8.1	8.6	9.0	9.5	10.0	10.5	10.9	11.4	11.9	12.4	12.8	13.3	13.8	14.3	14.7	15.2	15.7	16.2	16.6	17.1	17.6	18.1	18.5
Max speed (mm/sec)	Pitch 20	1000																	800	650	500			450
	Pitch 16	800																	640	520	400			360
	Pitch 10	500																	400	325	250			225
	Pitch 05	250																	200	162.5	125			112.5

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Motor Mounting Position Version

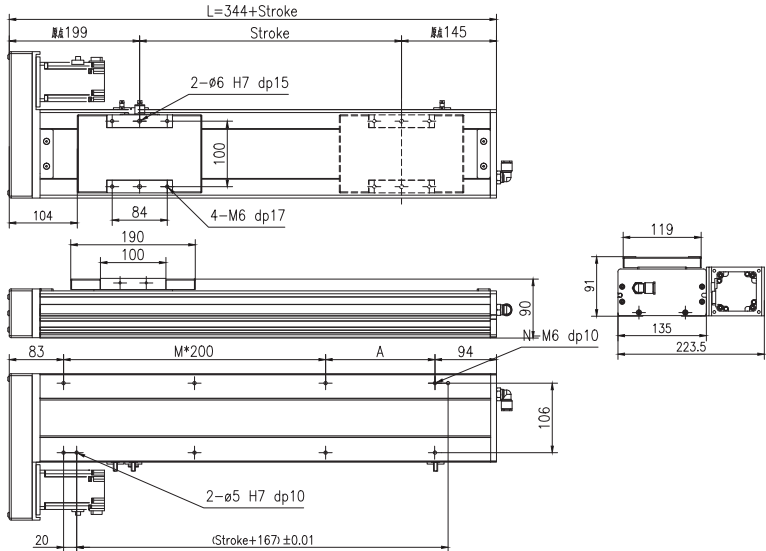


Basic Specification

YSC135		4P(Block Quantity)			
Technical Parameters	Repetitive Accuracy(mm)	±0.005			
	Ball Screw Lead(mm)	5	10	16	20
	Maximun Speed(mm/s)	250	500	800	1000
	Maximum Payload	Horizontal(kg)	100	80	45
		Vertical(kg)	80	70	16
	Rated Thrust(N)	1388	694	433	347
	Max. No-load Driving Torque(N·m)	0.1	0.12	0.16	0.22
Basic Specification	Max.Driving Torque(N·m)	10.9	12.5	14	16
	Stroke(mm)	100-1250 mm/ 50 Pitch			
	AC Servo Motor Output(W)	200/400			
	Ball Screw Diameter(mm)	Φ16/Φ20			
	Linear Guide(mm)	15#×2 PCS			
	Max Outline of Main Engine's Cross Section(mm)	135×91			
	Home Sensor	EE-SX672(NPN)			

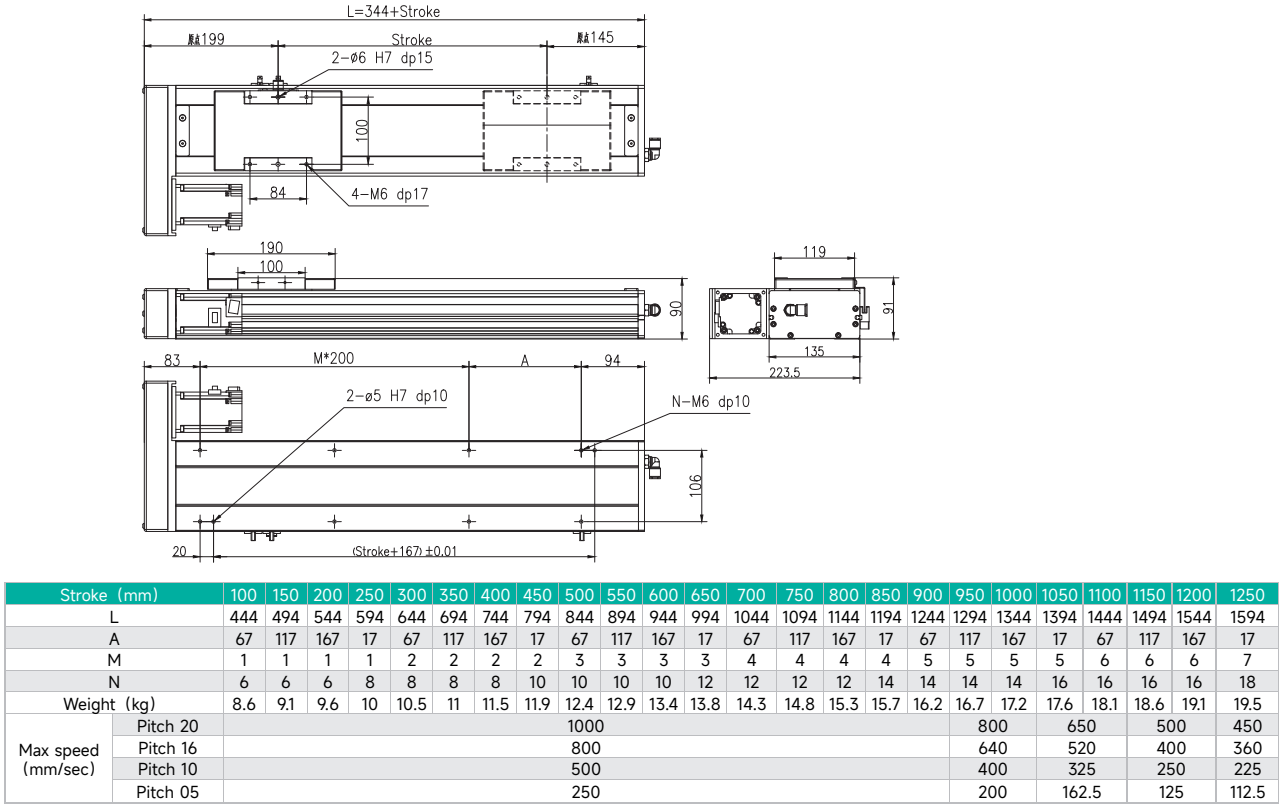
#Note1:When the stroke is more than 900mm,the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Note 2:Date changes relevently accroding to different torque and accelarated speed.Please refer to the LIMON calculate software.

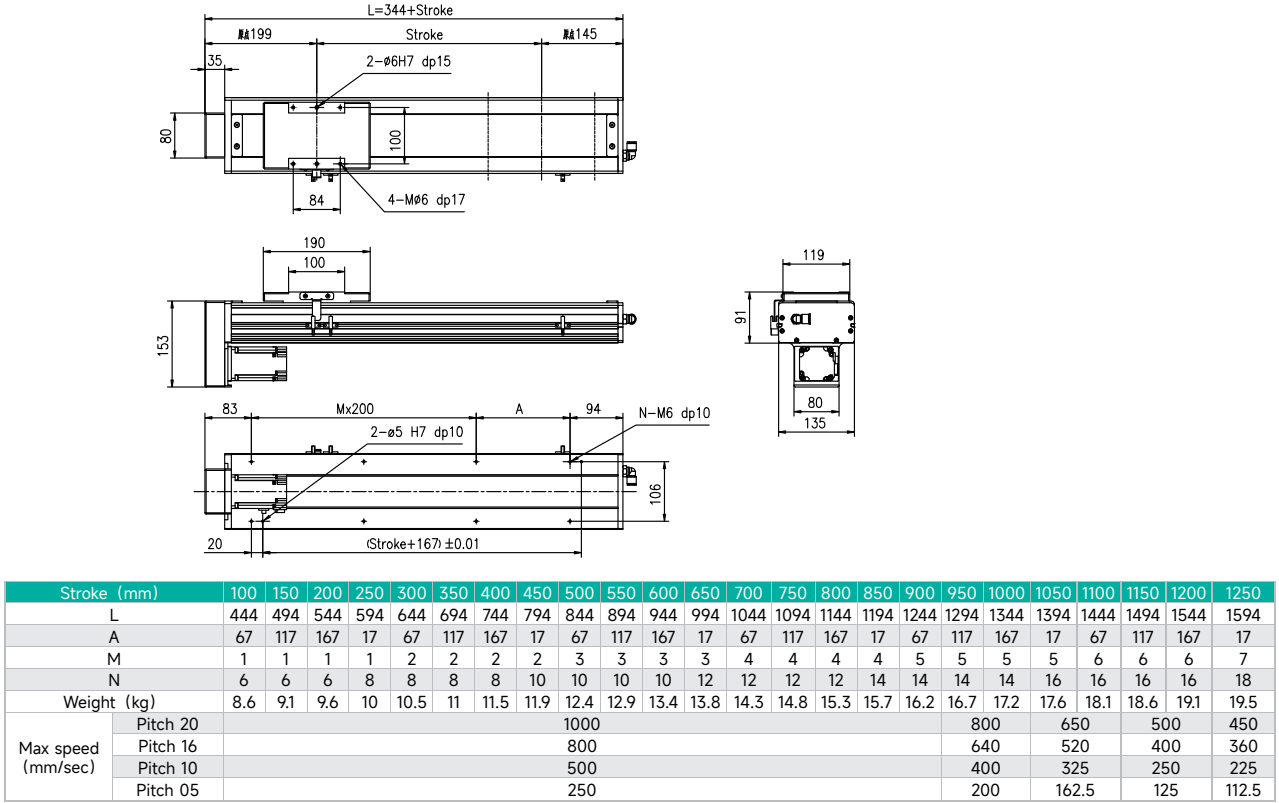


Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	414	464	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564
A	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17	67	117	167	17
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	7
N	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
Weight (kg)	8.6	9.1	9.6	10.0	10.5	11.0	11.5	11.9	12.4	12.9	13.4	13.8	14.3	14.8	15.3	15.7	16.2	16.7	17.2	17.6	18.1	18.6	19.1	19.5
最高速度 Max speed (mm/sec)	Pitch 20	1000																	800	650	500			450
	Pitch 16	800																	640	520	400			360
	Pitch 10	500																	400	325	250			225
	Pitch 05	250																	200	162.5	125			112.5

#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

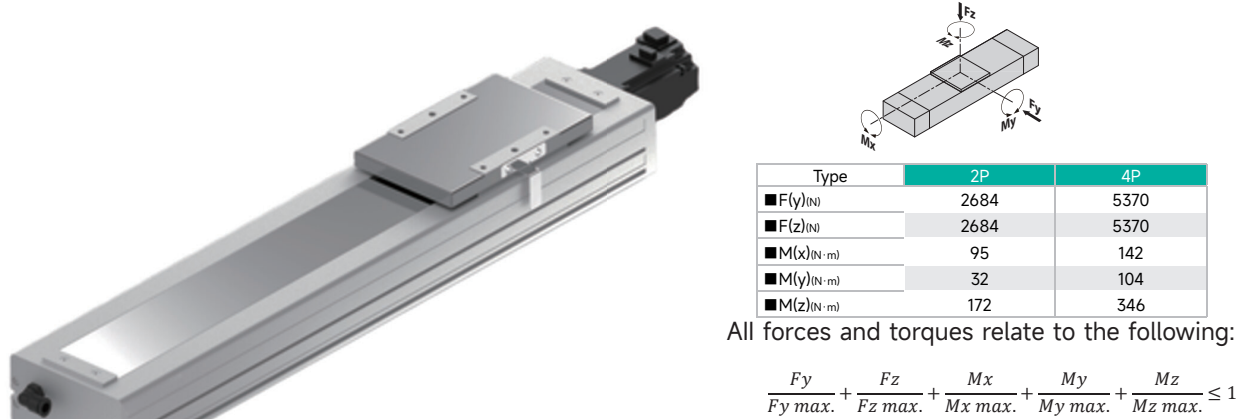


#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Code

YSC135G	L10	500	4P	MS	DB	M40	P3	A001
Item NO.	Ball screw Lead 05	Stroke 100-4000, Gap100	Block Quantity 4P	Motor Mounting Direction	Auxiliary Block	Motor Brand, Power Output	Photoelectric Sensor	Special Order No.
			4P	Straight Motor Mounting	Not fitted: Single slide DB...Auxiliary slider	M Mitsubishi 10 200W P Panasonic 20 400W Y Yaskawa 40 400W D Delta 75 1K	P1:1PC P2:2PCS P3:3PCS No Mark:No Sensor	No Mark:No Sensor

Max Static Forces And Torques



Motor Mounting Position Version

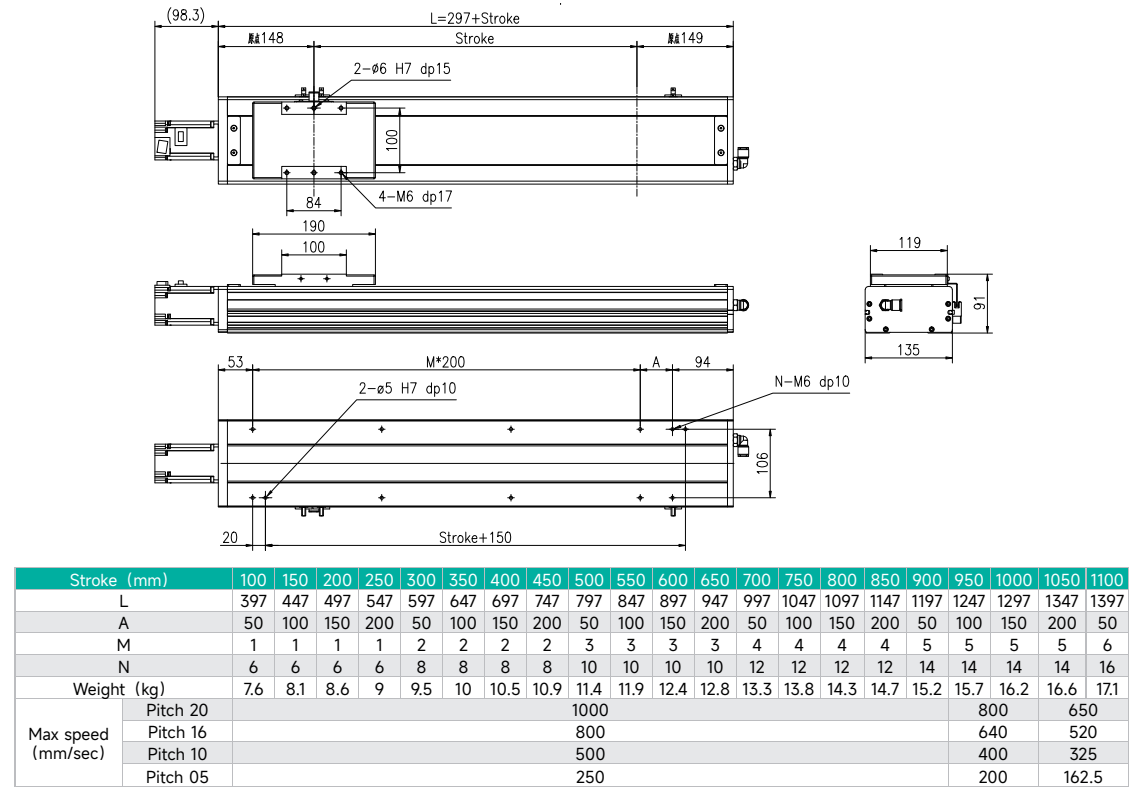
MS Type Straight Motor Mounting	ML Type Left Motor Mounting	MR Type Right Motor Mounting	MD Type Down Motor Mounting

Basic Specification

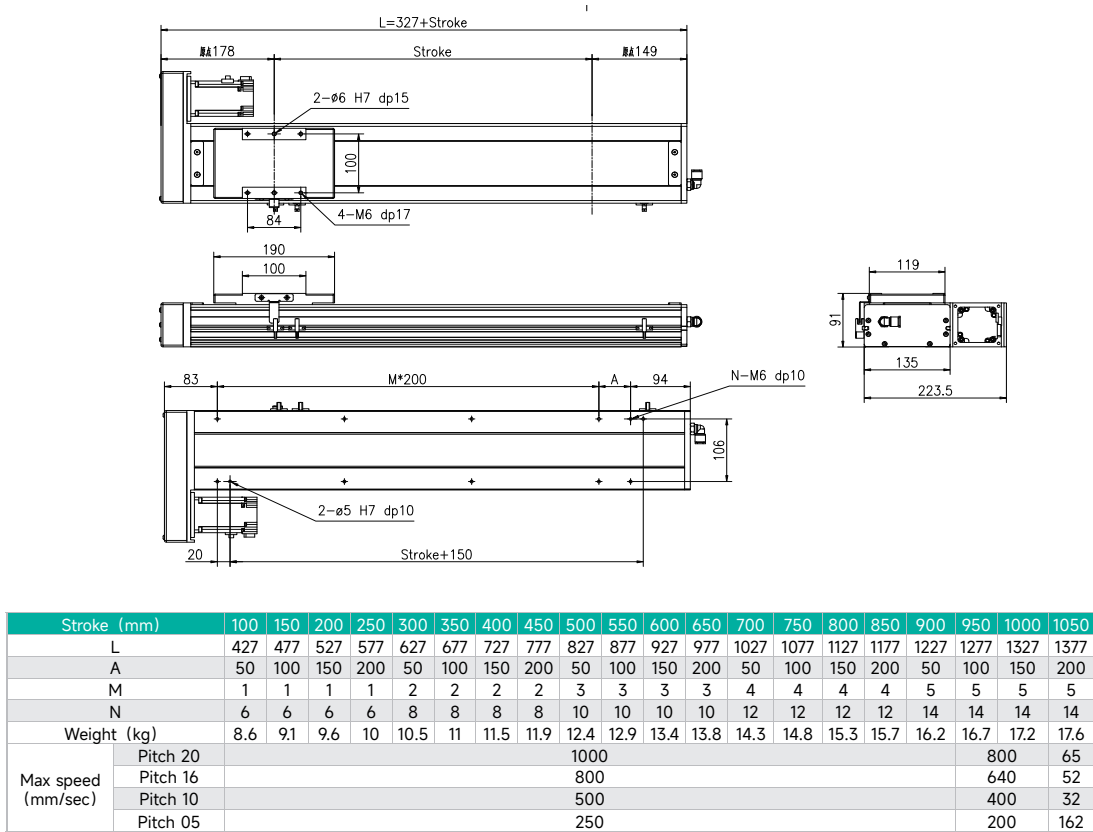
YSC135G					
Technical Parameters	Repetitive Accuracy(mm)	±0.005			
	Ball Screw Lead(mm)	5	10	16	20
	Maximun Speed(mm/s)	250	500	800	1000
	Maximum Payload	Horizontal(kg)	100	80	60
		Vertical(kg)	80	70	45
	Rated Thrust(N)	1388	694	433	347
	Max. No-load Driving Torque(N·m)	0.1	0.12	0.16	0.22
	Max.Driving Torque(N·m)	10.9	12.5	14	16
Basic Specification	Stroke(mm)	100-1250 mm/ 50 Pitch			
	AC Servo Motor Output(W)	200/400			
	Ball Screw Diameter(mm)	Φ16/Φ20			
	Linear Guide(mm)	15#×2 PCS			
	Max Outline of Main Engine's Cross Section(mm)	135×91			
	Home Sensor	EE-SX672(NPN)			

#Note1:When the stroke is more than 900mm,the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

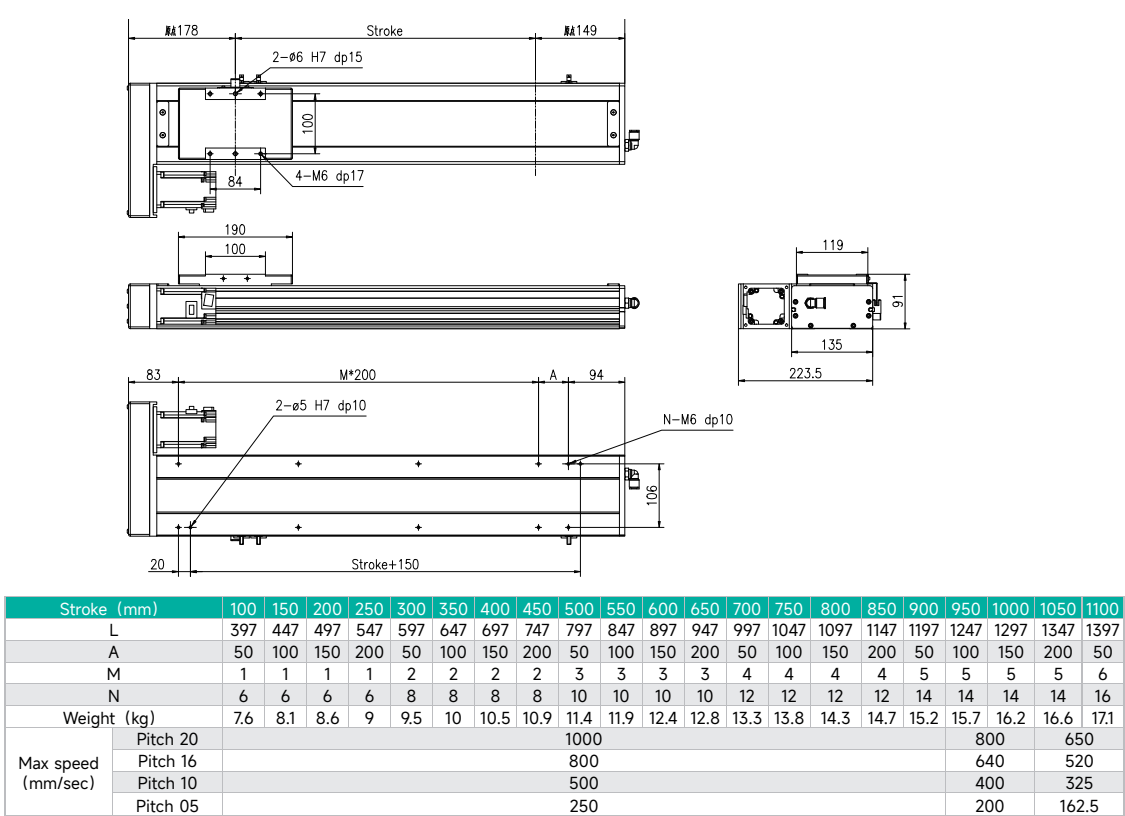
Note 2:Date changes relevently accroding to different torque and accelarated speed.Please refer to the LIMON calculate software.



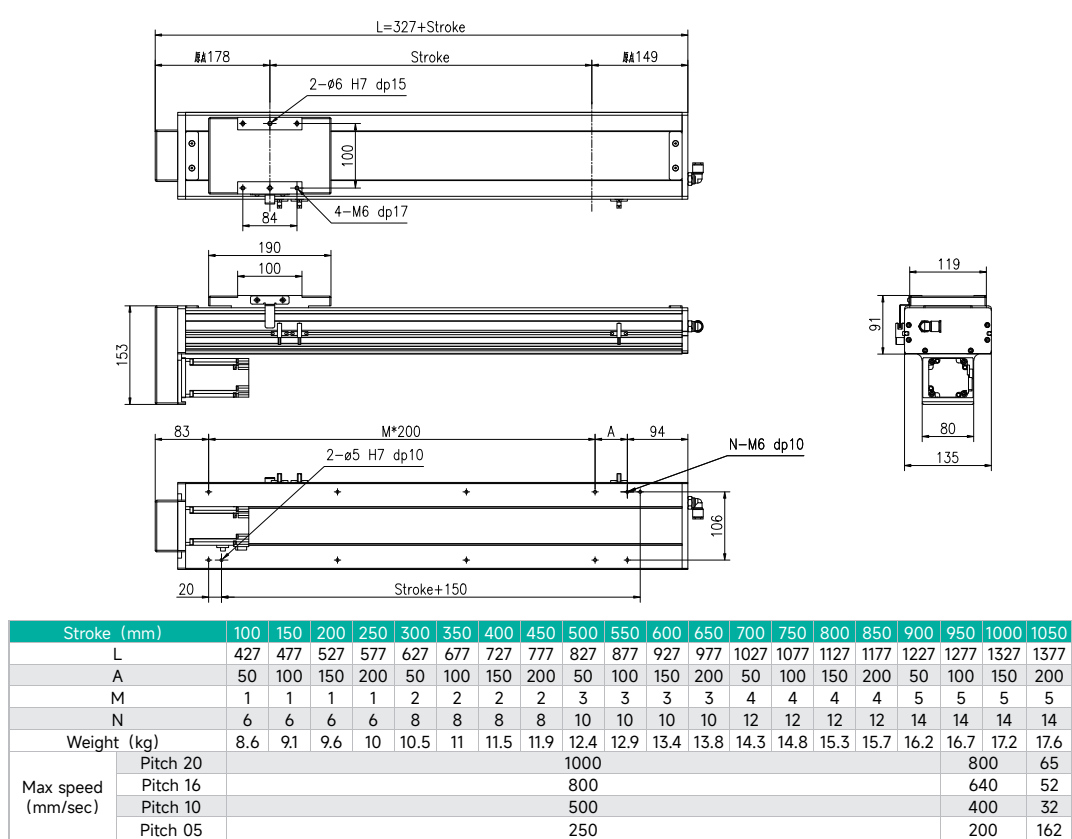
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

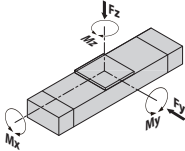
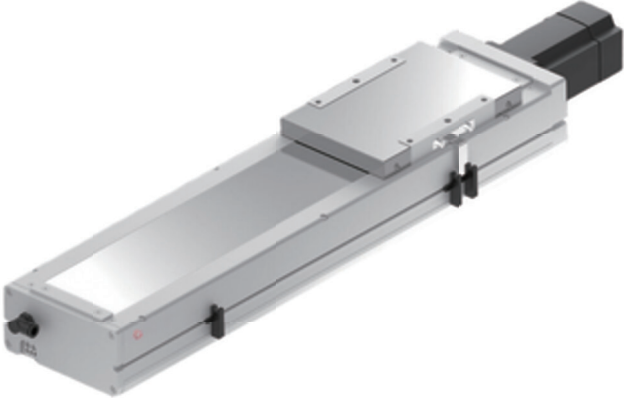


#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Code

YSC170	L10	-	500	-	DB Note	-	4P	-	MS	-	M40	-	P3	-	A001
Item NO.	Ball screw Lead 05 10 20 40		Stroke 100-1250, Gap50		Auxiliary Block (Not fixed) Single slider DB...Auxiliary Block		Block Quantity 4P		Motor Mounting Direction Straight Motor Mounting Left Motor Mounting Right Motor Mounting		Motor Brand、Power Output M Mitsubishi 10 - P Panasonic 20 200W Y Yaskawa 40 400W D Delta 75 -		Photoelectric Sensor P1:1PC P2:2PCS P3:3PCS		Special Order No. No Mark.No Sensor

Max Static Forces And Torques



Type	4P
■ $F(y)_{(N)}$	7463
■ $F(z)_{(N)}$	7463
■ $M(x)_{(N-m)}$	339
■ $M(y)_{(N-m)}$	178
■ $M(z)_{(N-m)}$	742

All forces and torques relate to the following

$$\frac{F_y}{F_y \text{ max.}} + \frac{F_z}{F_z \text{ max.}} + \frac{M_x}{M_x \text{ max.}} + \frac{M_y}{M_y \text{ max.}} + \frac{M_z}{M_z \text{ max.}} \leq$$

Motor Mounting Position Version

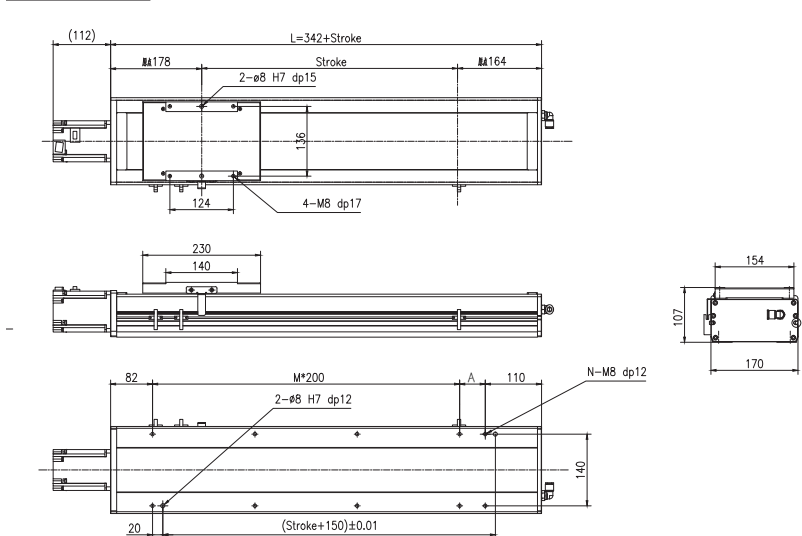
MS Type Straight Motor Mounting	ML Type Left Motor Mounting	MR Type Right Motor Mounting	MD Type Down Motor Mounting
			

Basic Specification

YSC170			4P(Block Quantity)			
Technical Parameters	Repetitive Accuracy(mm)		±0.005			
	Ball Screw Lead(mm)		5	10	25	32
	Maximun Speed(mm/s)		250	500	1250	1600
	Maximum Payload	Horizontal(kg)	160	160	140	80
		Vertical(kg)	80	70	45	30
	Rated Thrust(N)		2563	1281	640	320
	Max. No-load Driving Torque(N·m)		0.1	0.12	0.16	0.2
Max.Driving Torque(N·m)		10.9	12.5	14	16	
Basic Specification	Stroke(mm)		100-1250 mm/ 50 Pitch			
	AC Servo Motor Output(W)		400/750			
	Ball Screw Diameter(mm)		Φ20/Φ25			
	Linear Guide(mm)		20#×2 PCS			
	Max Outline of Main Engine's Cross Section(mm)		170×107			
	Home Sensor		EE-SX672(NPN)			

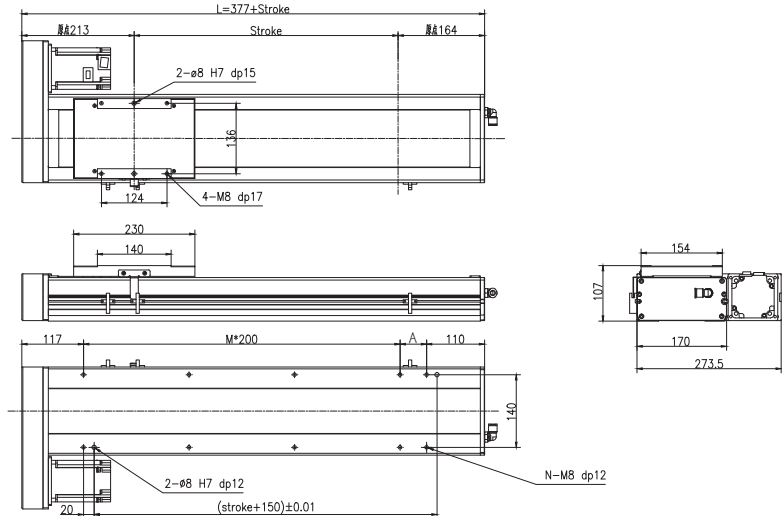
#Note1:When the stroke is more than 900mm,the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Note 2:Date changes relevently accroding to different torque and accelarated speed.Please refer to the LIMON calculate software.



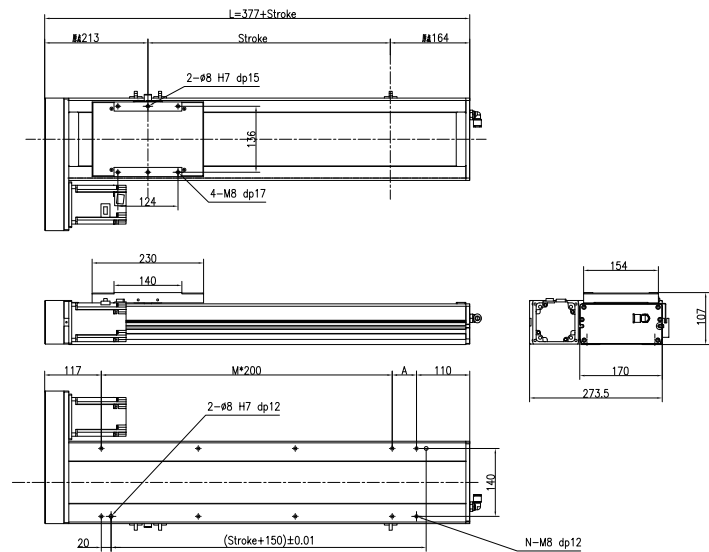
Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	442	492	542	592	642	692	742	792	842	892	942	992	1042	1092	1142	1192	1242	1292	1342	1392	1442	1492	1542	1592
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
Max speed (mm/sec)	Pitch 40																	1600	1300		900			
	Pitch 20																	800	650		450			
	Pitch 10																	400	325		225			
	Pitch 05																	200	162.5		112.5			

#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



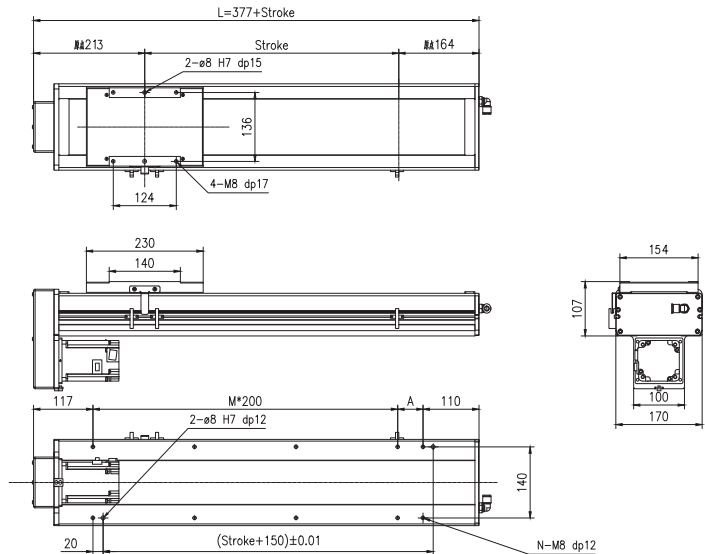
Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	
N	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12	12	14	14	14	14	16	16	16	16	
Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8	
Max speed (mm/sec)	Pitch 40																	1600		1300		1000		900	
	Pitch 20																	800		650		500		450	
	Pitch 10																	500		400		325		225	
	Pitch 05																	250		200		162.5		112.5	

#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
Max speed (mm/sec)	Pitch 40	2000																1600	1300	1000	900			
	Pitch 20	1000																800	650	500	450			
	Pitch 10	500																400	325	250	225			
	Pitch 05	250																200	162.5	125	112.5			

#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



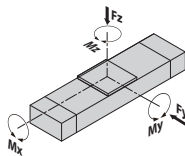
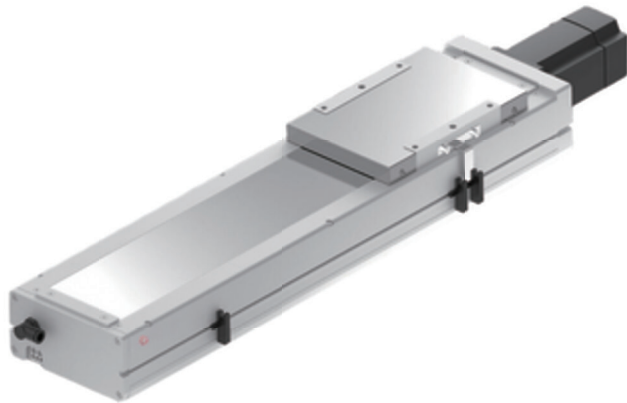
Stroke (mm)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	477	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16
Weight (kg)	14.8	15.6	16.4	17.2	17.9	18.7	19.5	20.3	21.0	21.8	22.6	23.4	24.1	24.9	25.7	26.5	27.2	28.0	28.8	29.6	30.4	31.2	32.0	32.8
Max speed (mm/sec)	Pitch 40	2000																1600	1300	1000	900			
	Pitch 20	1000																800	650	500	450			
	Pitch 10	500																400	325	250	225			
	Pitch 05	250																200	162.5	125	112.5			

#Note1:When the stroke is more than 850mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

Code

YSC220	L10	-	500	-	DB _{Note}	-	4P	-	MS	-	M75	-	P3	-	A001
Item NO.	Ball screw Lead		Stroke		Auxiliary Block		Block Quantity		Motor Mounting Direction		Motor Brand、Power Output		Photoelectric Sensor		Special Order No.
	05 10 25 32		100-1500, Gap100		Not fitted Single slider DB____Auxiliary Block		4P		Straight Motor Mounting Left Motor Mounting Right Motor Mounting Down Motor Mounting		M Mitsubishi 10 - P Panasonic 20 200W Y Yaskawa 40 400W D Delta 75 750W 1K -		P1:1PC P2:2PCS P3:3PCS No Mark.No Sensor		No Mark.No Sensor

Max Static Forces And Torques



Type	4P
■ F(y)(N)	11923.1
■ F(z)(N)	11923.1
■ M(x)(N·m)	1203.8
■ M(y)(N·m)	528.5
■ M(z)(N·m)	760.8

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

Motor Mounting Position Version

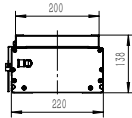
MS Type Straight Motor Mounting	ML Type Left Motor Mounting	MR Type Right Motor Mounting	MD Type Down Motor Mounting

Basic Specification

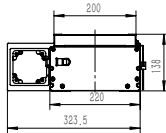
YSC220			4P(Block Quantity)			
Technical Parameters	Repetitive Accuracy(mm)		±0.005			
	Ball Screw Lead(mm)		5	10	25	32
	Maximun Speed(mm/s)		250	500	1250	1600
	Maximum Payload	Horizontal(kg)	160	160	140	80
		Vertical(kg)	80	70	45	30
	Rated Thrust(N)		2563	1281	640	320
	Max. No-load Driving Torque(N·m)		0.1	0.12	0.16	0.2
	Max.Driving Torque(N·m)		10.9	12.5	14	16
Basic Specification	Stroke(mm)		100-1500 mm/ 50 Pitch			
	AC Servo Motor Output(W)		750			
	Ball Screw Diameter(mm)		Φ25/Φ32			
	Linear Guide(mm)		25#×2 PCS			
	Max Outline of Main Engine's Cross Section(mm)		220×138			
	Home Sensor		EE-SX672(NPN)			

#Note1:When the stroke is more than 900mm,the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.

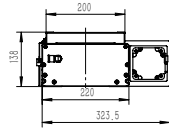
#Note 2:Date changes relevently accrodg to different torque and accelrated speed.Please refer to the LIMON calculate software.



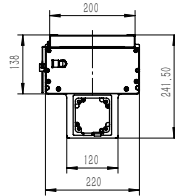
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



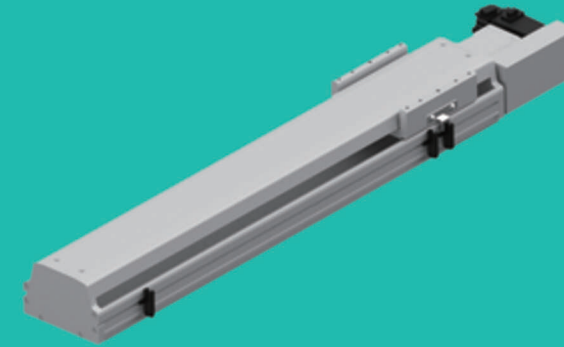
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



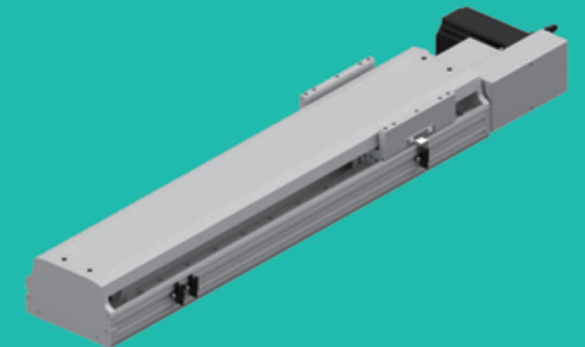
#Note1:When the stroke is more than 900mm, the resonance phenomenon could come into being.So please refer to speed sheet on the drawing.



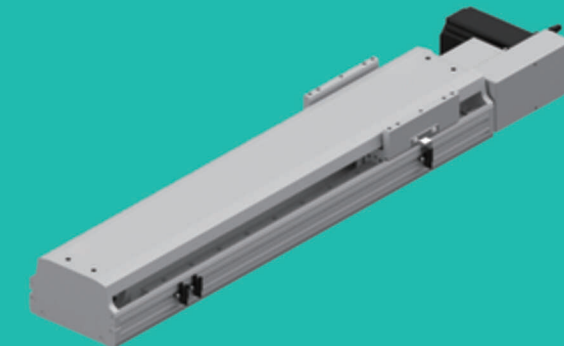
Sub-standard semi-dense synchronous belt drive type



YTO 135



YTO 170



YTO 220

Code

YTO135

Item NO.

-

500

Stroke
100-4000,
Gap100

-

DB

Note
Auxiliary Block
Not fixed
Stroke wider
DB...Auxiliary Block

-

4P

Block Quantity
4P

-

D01

Motor Mounting Direction
D01
D02
D03
D04
D05
D06
D07
D08
D09

-

M40

Motor Brand, Power Output
M Mitsubishi 10 -
P Panasonic 20 200W
Y Yaskawa 40 400W
D Delta 75 -
1K -

-

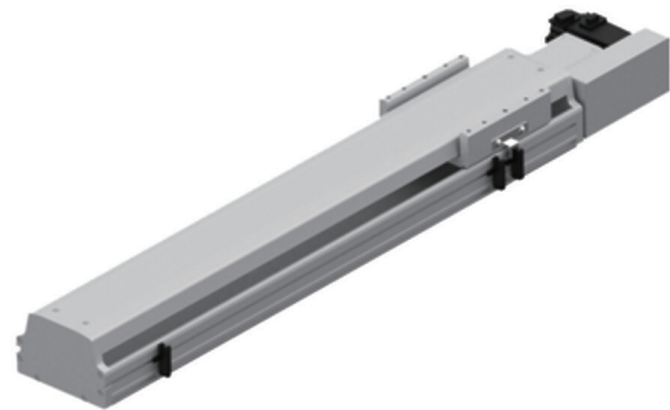
P3

Photoelectric Sensor
P1:1PC
P2:2PCS
P3:3PCS
No Mark:No Sensor

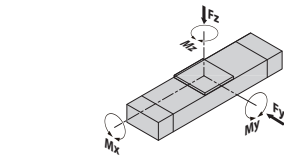
-

A001

Special Order No.
No Mark:No Sensor



Max Static Forces And Torques



Type	4P
■ F(y) (N)	5370
■ F(z) (N)	5370
■ M(x) (N·m)	142
■ M(y) (N·m)	104
■ M(z) (N·m)	346

All forces and torques relate to the following:
 $\frac{F_y}{F_y \max} + \frac{F_z}{F_z \max} + \frac{M_x}{M_x \max} + \frac{M_y}{M_y \max} + \frac{M_z}{M_z \max} \leq 1$

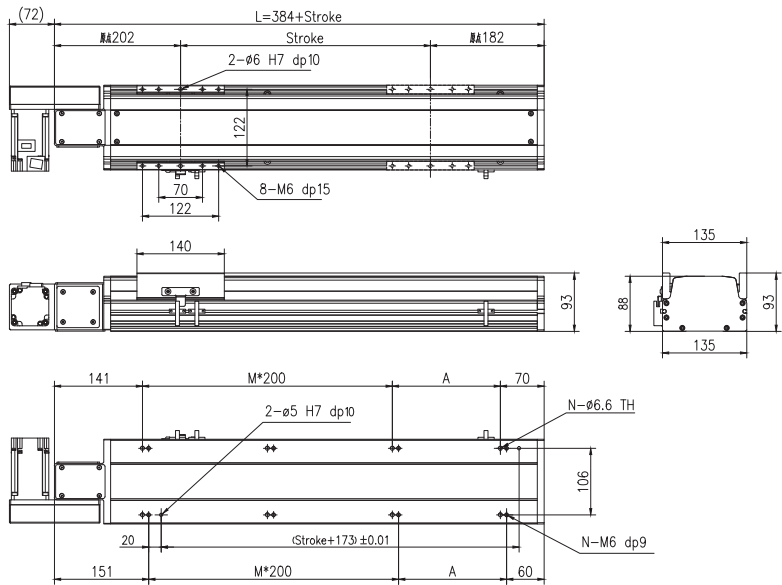
Motor Mounting Position Version

D01	D02	D03	D04	D05	D06	D07	D08	D09

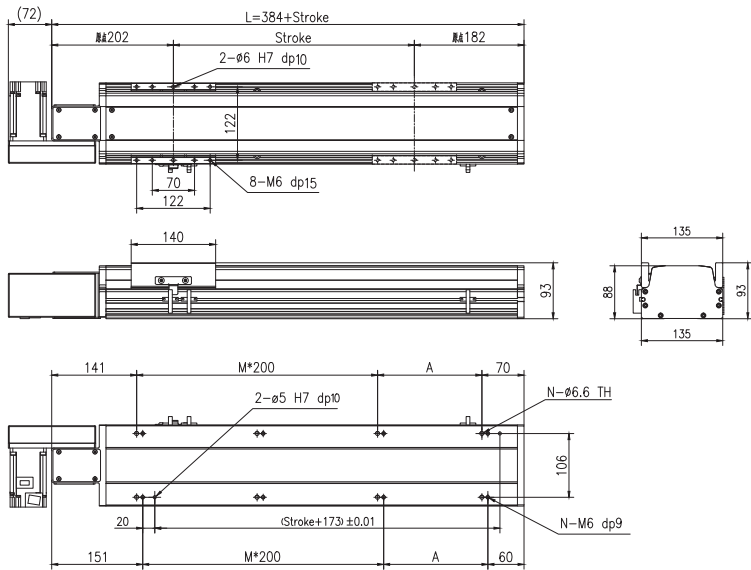
Basic Specification

YTO135			4P(Block Quantity)	
Technical Parameters	Repetitive Accuracy(mm)		±0.05	
	Pulley Lead(mm)		110 / 50 ^{*Note2}	
	Belt type		5M-25	
	Maximum Speed(mm/s)		3000	
	Maximum Payload ^{*Note1}	Horizontal(kg)	40	
		Vertical(kg)	12	
	Max. No-load Driving Torque(N·m)		0.3	
Max.Driving Torque(N·m)		6		
Basic Specification	Stroke(mm)		100-4000 mm/ 100 Pitch	
	AC Servo Motor Output(W)		400	
	Linear Guide(mm)		15#×2 PCS	
	Max Outline of Main Engine's Cross Section(mm)		135×93	
	Home Sensor		EE-SX672(NPN)	

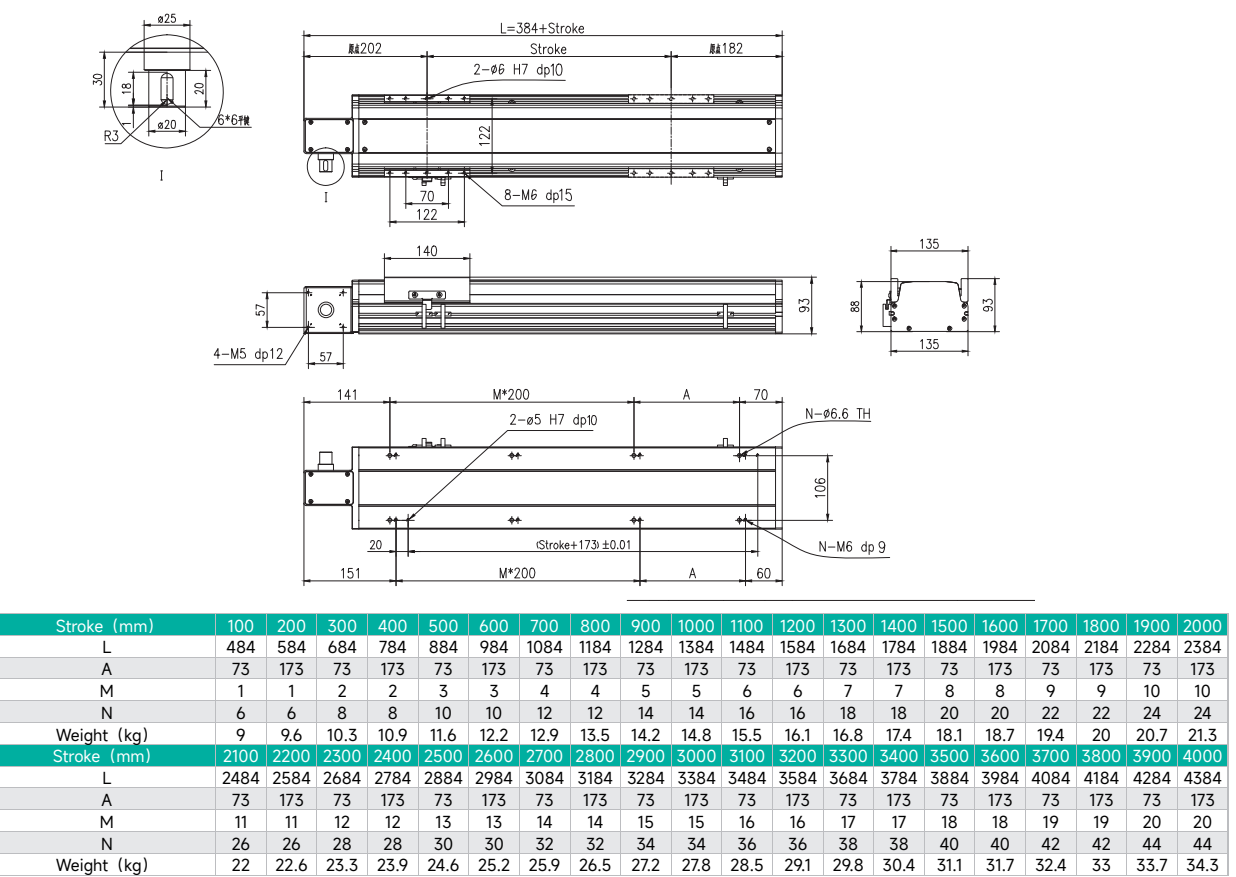
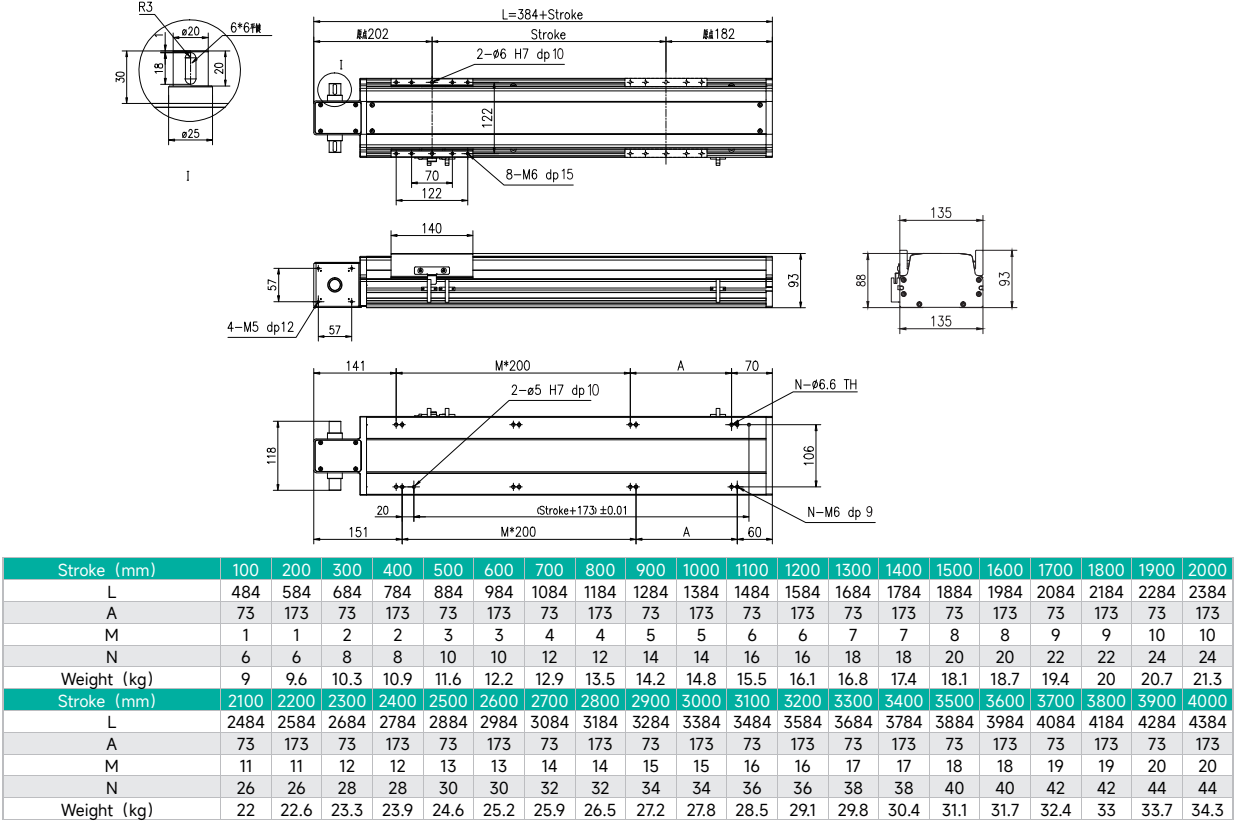
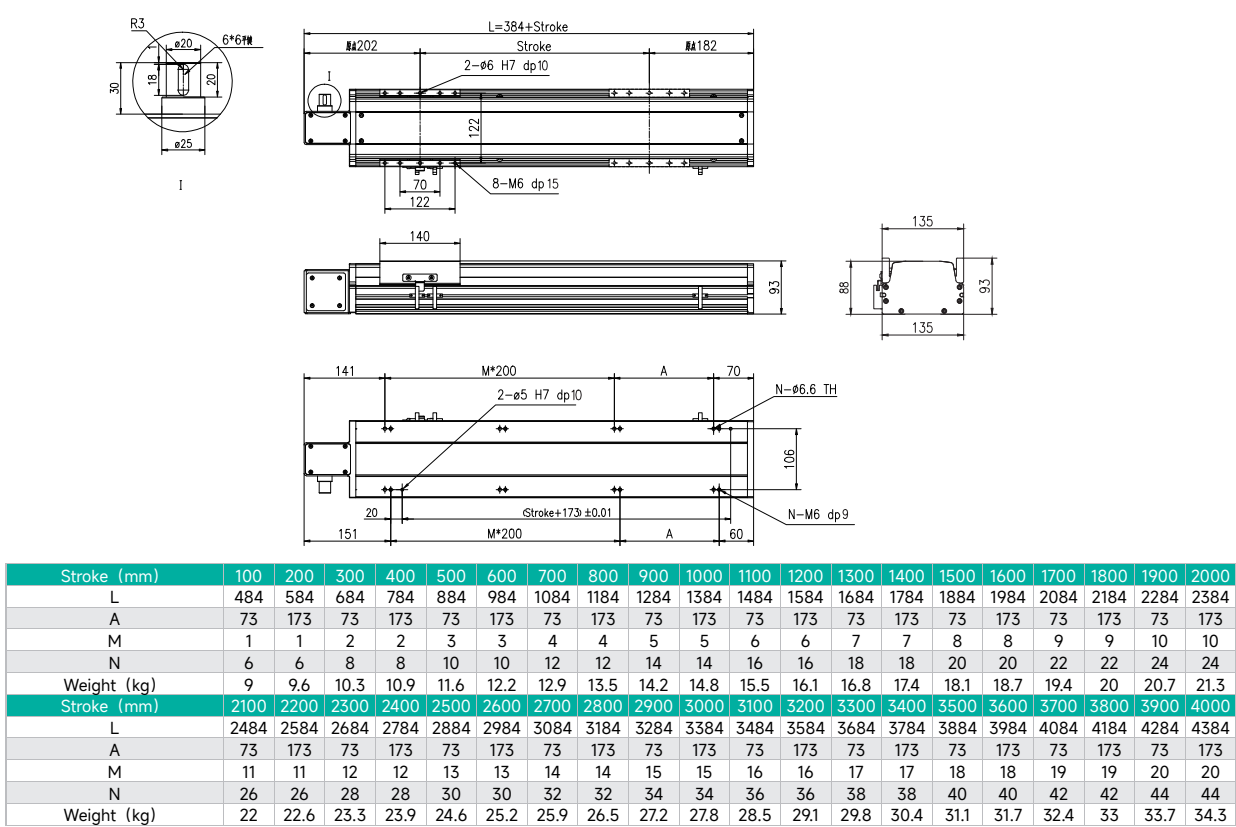
#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.
Note 2:Pulley's original lead is 110mm,which standard type is equipped with reduction facility normally, and its lead is 50mm after deceleration.



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	484	584	684	784	884	984	1084	1184	1284	1384	1484	1584	1684	1784	1884	1984	2084	2184	2284	2384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	9	9.6	10.3	10.9	11.6	12.2	12.9	13.5	14.2	14.8	15.5	16.1	16.8	17.4	18.1	18.7	19.4	20	20.7	21.3
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2484	2584	2684	2784	2884	2984	3084	3184	3284	3384	3484	3584	3684	3784	3884	3984	4084	4184	4284	4384
A	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173	73	173
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	22	22.6	23.3	23.9	24.6	25.2	25.9	26.5	27.2	27.8	28.5	29.1	29.8	30.4	31.1	31.7	32.4	33	33.7	34.3



Code

YTO170

Item NO.

L40

Lead

L40: D01-D06
L100: D07-D09

500

Stroke

100-4000,
Gap100

DB

Auxiliary Block

Not Used:
Single slider
DB____Auxiliary Block

4P

Block Quantity

4P

D01

Motor Mounting Direction

D01
D02
D03
D04
D05
D06
D07
D08
D09

M40

Motor Brand、Power Output

M Mitsubishi 10 -
P Panasonic 20 200W
Y Yaskawa 40 400W
D Delta 75 750W
1K -

P3

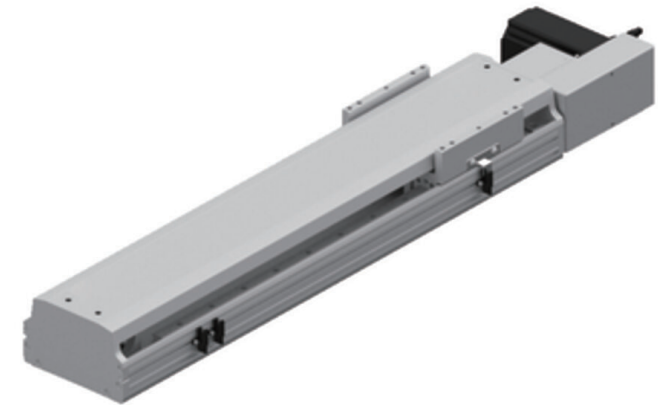
Photoelectric Sensor

P1:1PC
P2:2PCS
P3:3PCS
No Mark:No Sensor

A001

Special Order No.

No Mark:No Sensor



Max Static Forces And Torques

Type	4P
■F(y)(N)	7463
■F(z)(N)	7463
■M(x)(N·m)	339
■M(y)(N·m)	178
■M(z)(N·m)	742

All forces and torques relate to the following:

$$\frac{F_y}{F_{y\max}} + \frac{F_z}{F_{z\max}} + \frac{M_x}{M_{x\max}} + \frac{M_y}{M_{y\max}} + \frac{M_z}{M_{z\max}} \leq 1$$

Motor Mounting Position Version

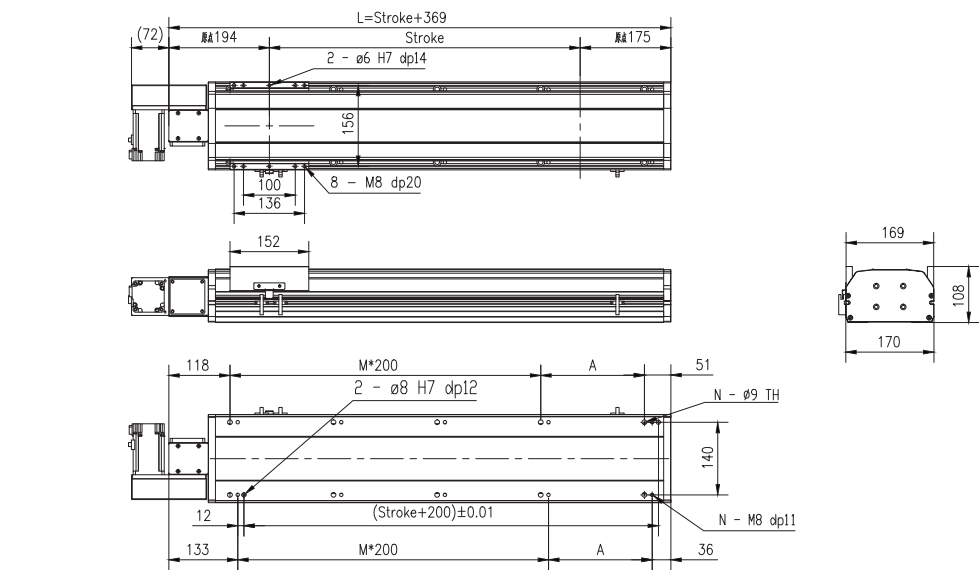
D01	D02	D03	D04	D05	D06	D07	D08	D09

Basic Specification

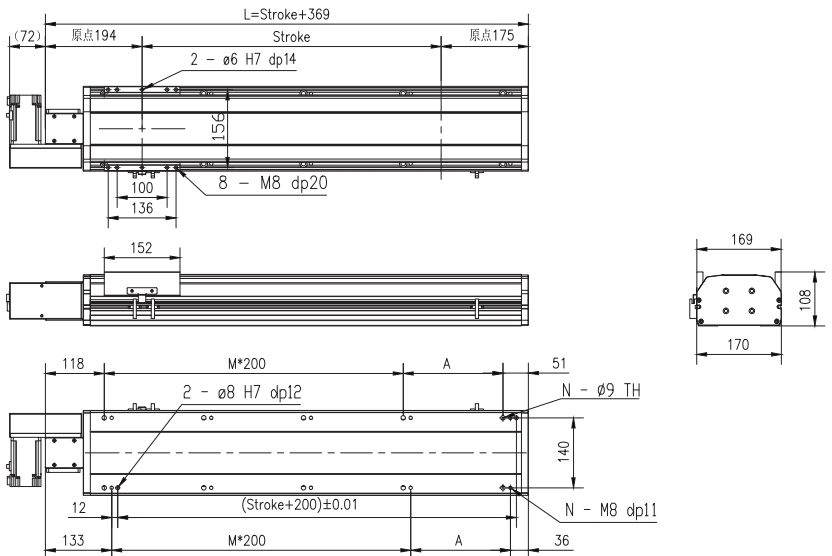
YTO 170		4P(Block Quantity)	
Technical Parameters	Repetitive Accuracy(mm)	±0.05	
	Pulley Lead(mm)	100 / 40	
	Belt type	5M-30	
	Maximum Speed(mm/s)	2400	
	Maximum Payload	Horizontal(kg)	60
		Vertical(kg)	20
	Max. No-load Driving Torque (N·m)	0.3	
	Max. Driving Torque (N·m)	6	
Basic Specification	Stroke(mm)	100-4000 mm/ 100 Pitch	
	AC Servo Motor Output(W)	400 / 750	
	Linear Guide(mm)	20#×2 PCS	
	Belt Width	30	
	Max Outline of Main Engine's Cross Section(mm)	170×108	
	Home Sensor	EE-SX672(NPN)	

#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

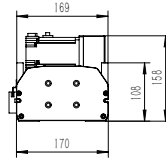
#Note 2:Pulley's original lead is 100mm,which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.



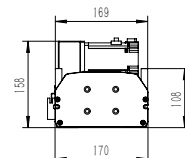
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6



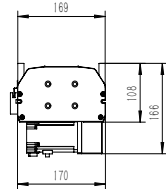
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6



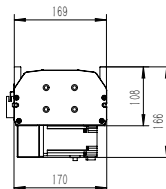
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6



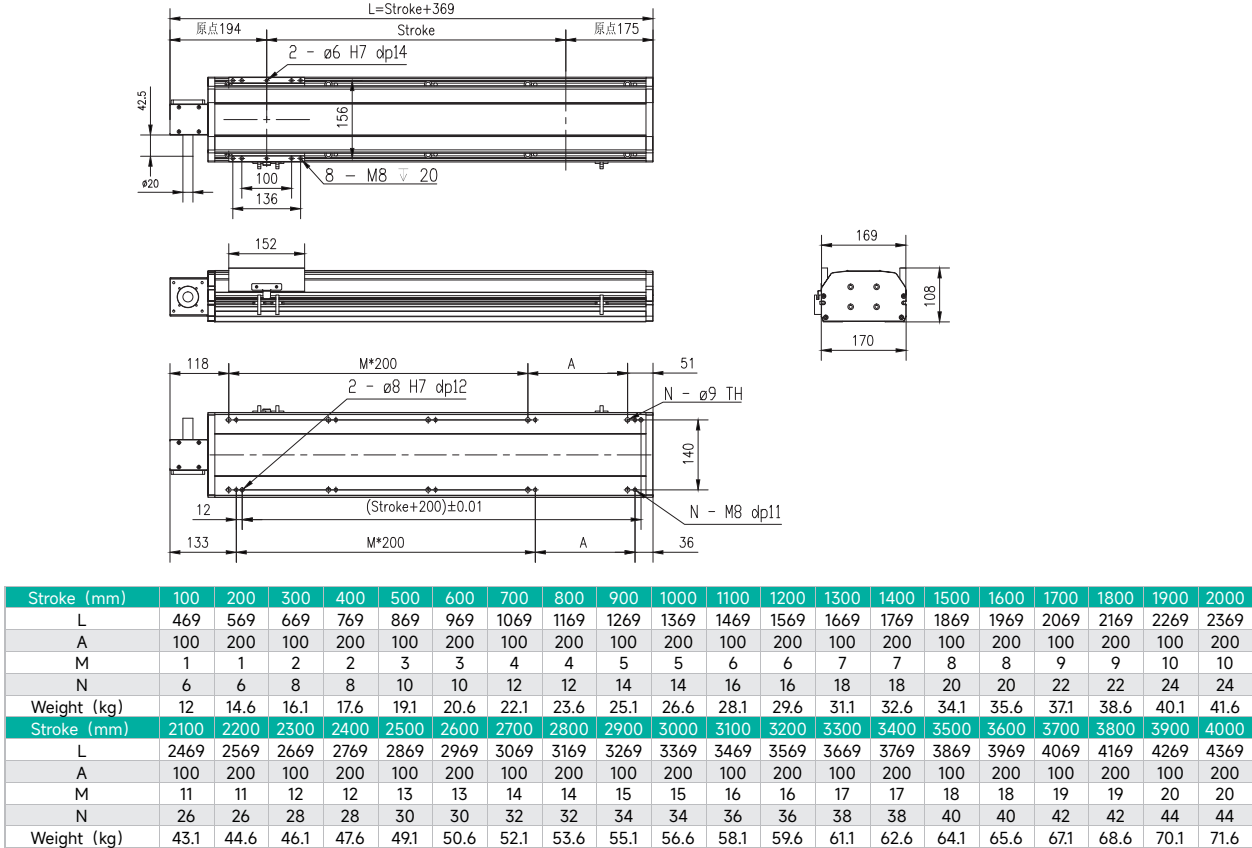
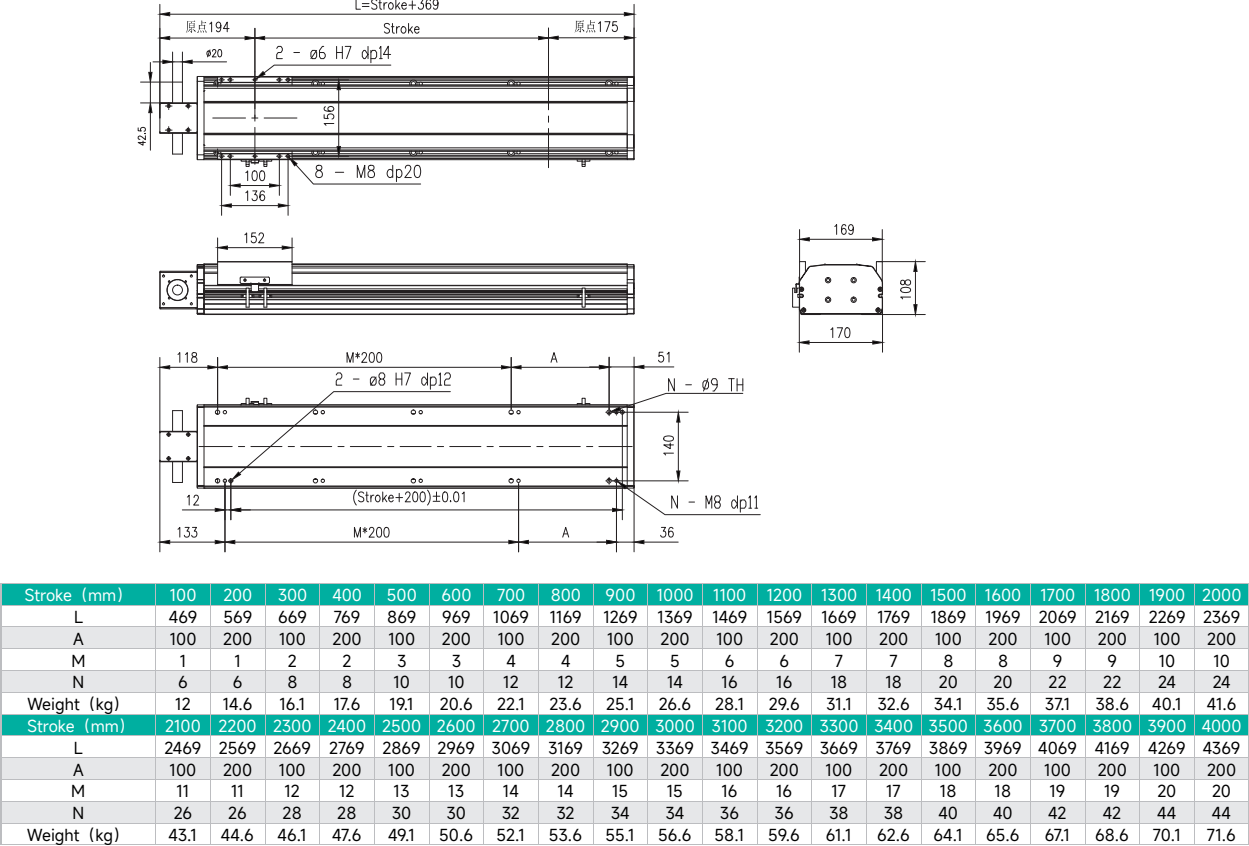
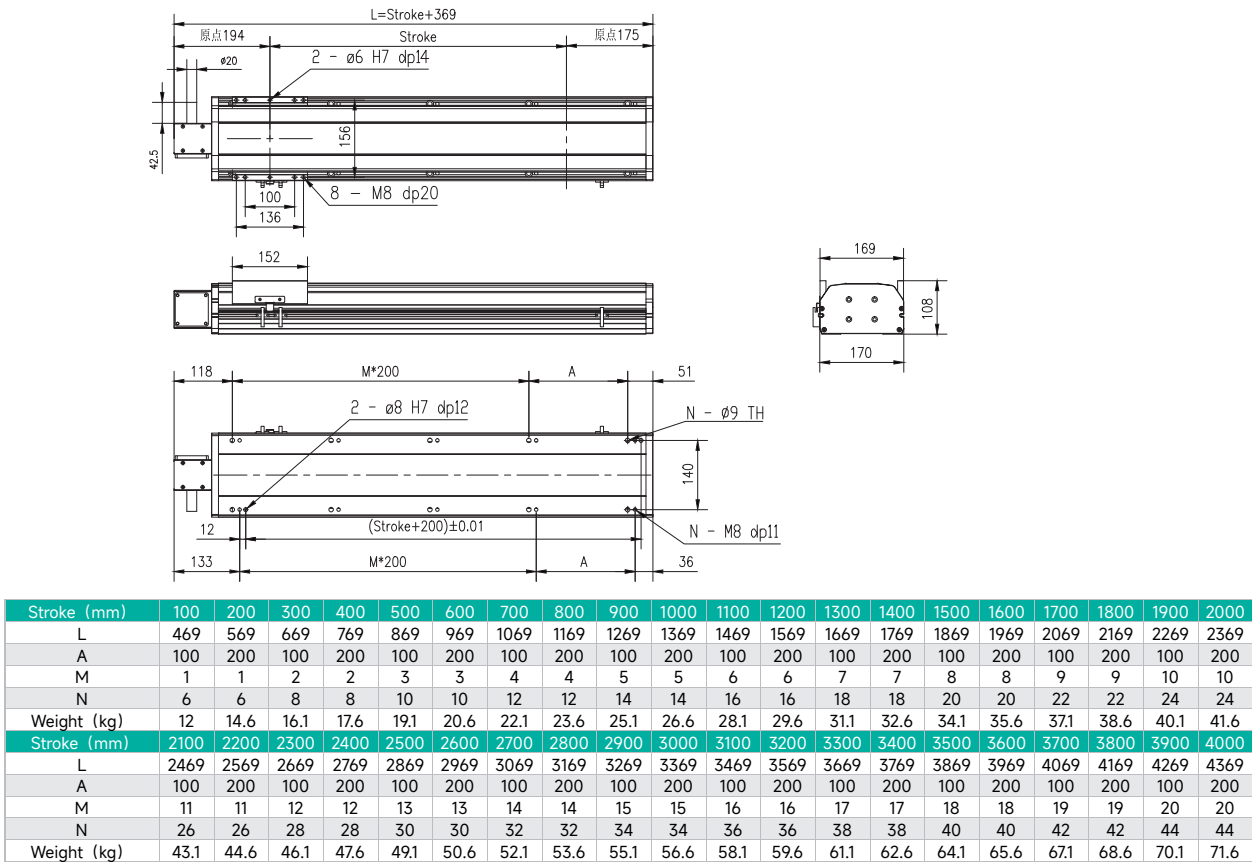
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	469	569	669	769	869	969	1069	1169	1269	1369	1469	1569	1669	1769	1869	1969	2069	2169	2269	2369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2469	2569	2669	2769	2869	2969	3069	3169	3269	3369	3469	3569	3669	3769	3869	3969	4069	4169	4269	4369
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	43.1	44.6	46.1	47.6	49.1	50.6	52.1	53.6	55.1	56.6	58.1	59.6	61.1	62.6	64.1	65.6	67.1	68.6	70.1	71.6



Code

YTO220	L40	500	DB	4P	D01	M75	P3	A001
Item NO.	Lead	Stroke	Auxiliary Block	Block Quantity	Motor Mounting Direction	Motor Brand、Power Output	Photoelectric Sensor	Special Order No.
	L40: D01-D06 L100: D07-D09	50-3050,Gap50	Not Used Single slider DB____Auxiliary slider	4P	D01 D02 D03 D04 D05 D06 D07 D08 D09	M Mitsubishi 10 - P Panasonic 20 - Y Yaskawa 40 - D Delta 75 750W 1K -	P1:1PC P2:2PCS P3:3PCS No Mark:No Sensor	No Mark:No Sensor



Max Static Forces And Torques

Type	4P
■F(y)(N)	10333.3
■F(z)(N)	10333.3
■M(x)(N·m)	2052
■M(y)(N·m)	2052
■M(z)(N·m)	1810

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

Motor Mounting Position Version

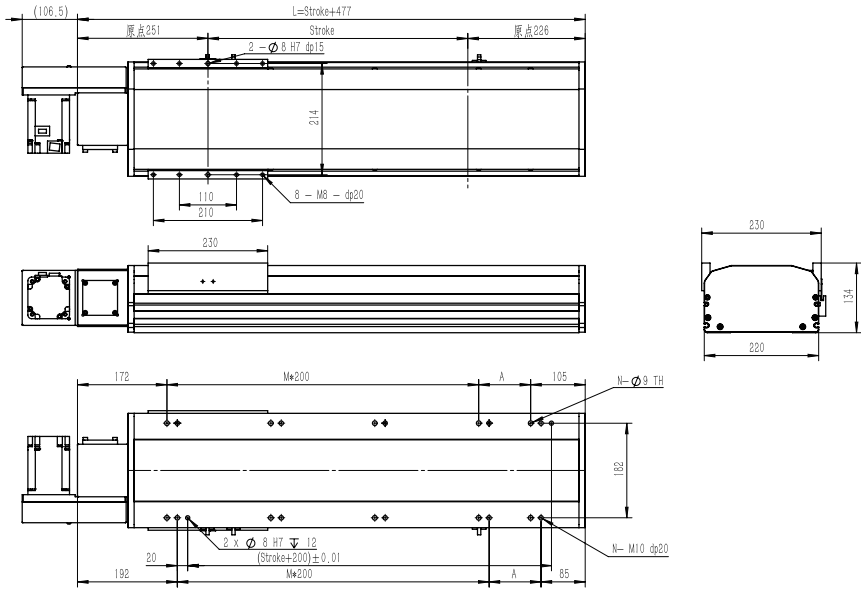
D01	D02	D03	D04	D05	D06	D07	D08	D09

Basic Specification

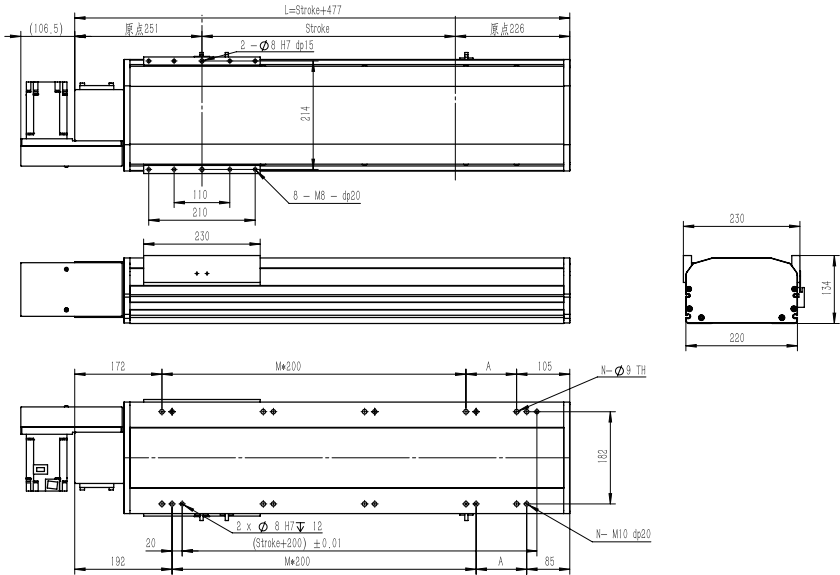
YTO 220			4P(Block Quantity)	
Technical Parameters	Repetitive Accuracy(mm)		±0.05	
	Pulley Lead(mm)		100 / 40	
	Belt type		5M-50	
	Maximum Speed(mm/s)		2400	
	Maximum Payload	Horizontal(kg)	90	
		Vertical(kg)	40	
	Max. No-load Driving Torque(N·m)		0.3	
Basic Specification	Max. Driving Torque(N·m)		6	
	Stroke(mm)		50-3050 mm/ 50 Pitch	
	AC Servo Motor Output(W)		750	
	Linear Guide(mm)		25#×2 PCS	
	Belt Width		50	
	Max Outline of Main Engine's Cross Section(mm)		230×134	
	Home Sensor		EE-SX672(NPN)	

#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

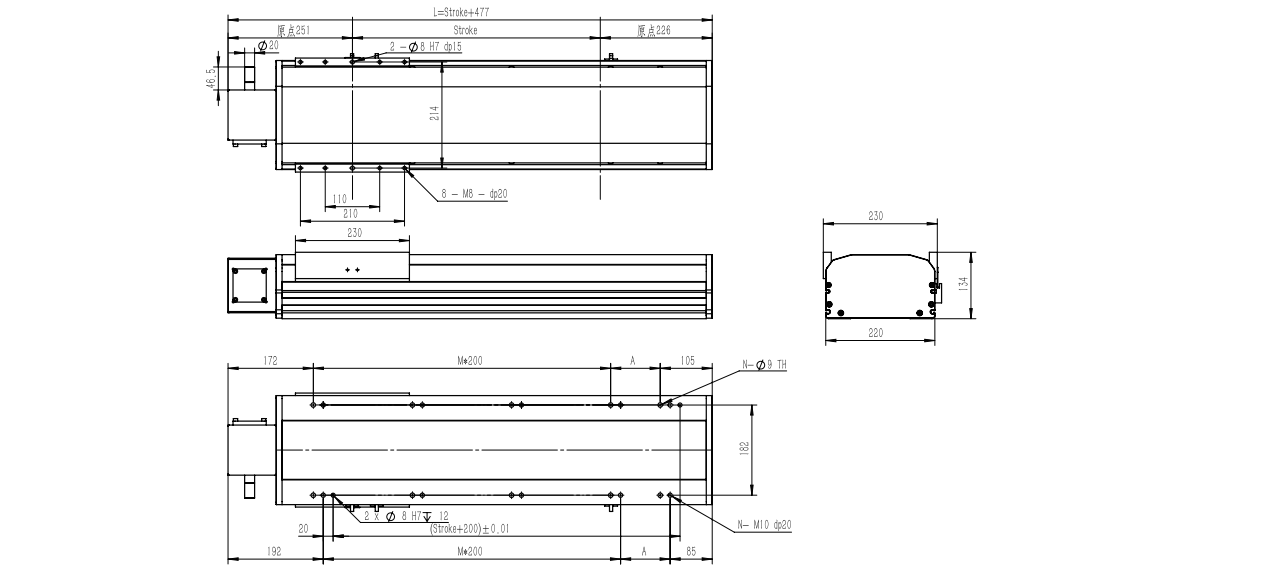
#Note 2:Pulley's original lead is 100mm,which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.



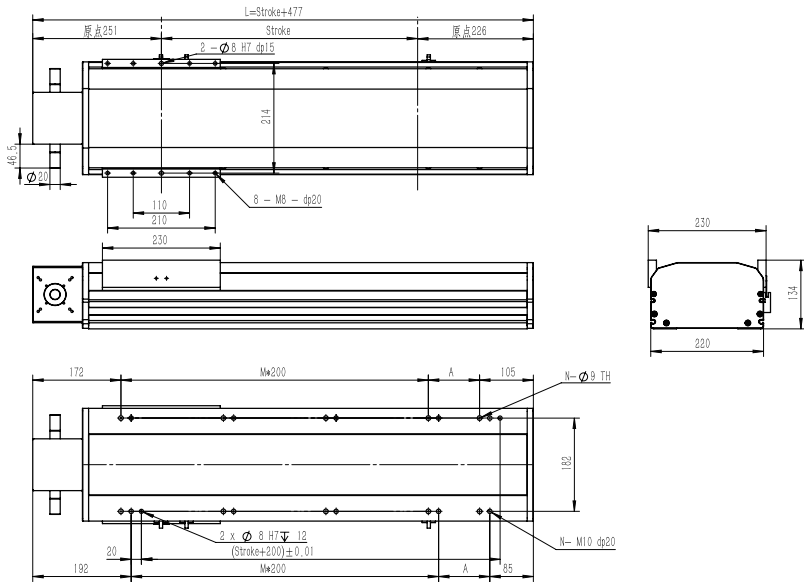
Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027	
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	
N	6	6	6	6	8	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8	
Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050		
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50		
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16		
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36		
Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8		



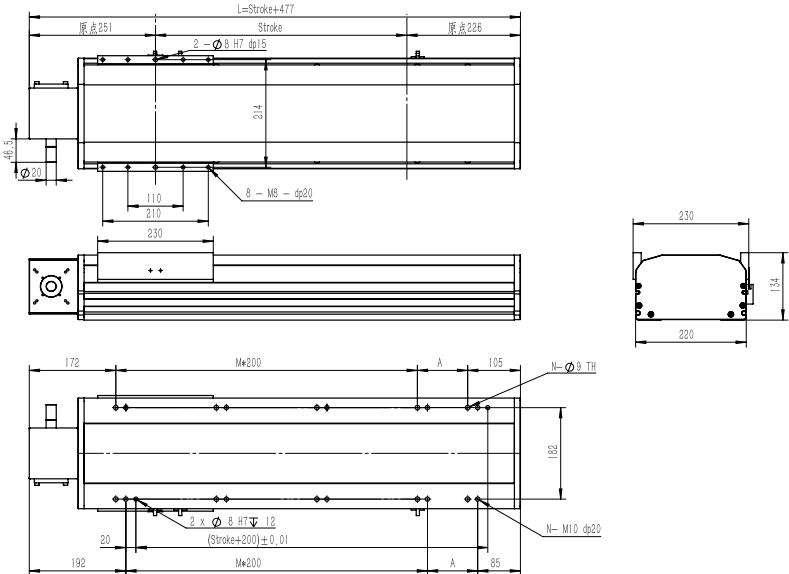
Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027	
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	
N	6	6	6	6	8	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8	
Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050		
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527		
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50		
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16		
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36		
Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8		



Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8
Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

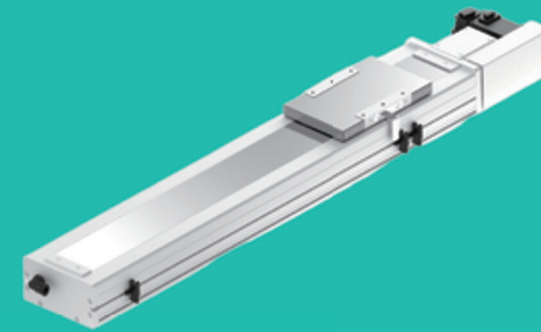


Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8
Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

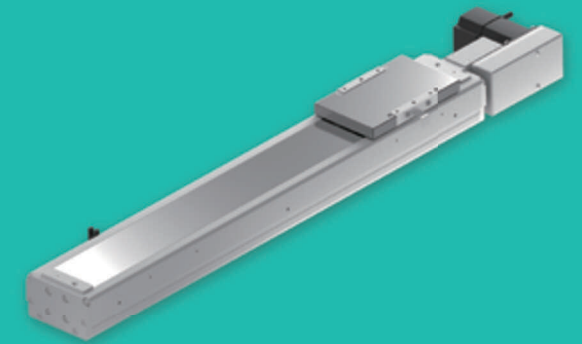


Stroke(mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
L	527	577	627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877	1927	1977	2027
A	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
N	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20	20
Weight(kg)	28.8	30	31.2	32.4	33.6	34.8	36	37.2	38.4	39.6	40.8	42	43.2	44.4	45.6	46.8	48	49.2	50.4	51.6	52.8	54	55.2	56.4	59.2	59.8	60	61.2	62.4	63.6	64.8
Stroke(mm)	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2077	2127	2177	2227	2277	2327	2377	2427	2477	2527	2577	2627	2677	2727	2777	2827	2877	2927	2977	3027	3077	3127	3177	3227	3277	3327	3377	3427	3477	3527	
A	200	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
M	8	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	15	15	15	15	16	
N	20	22	22	22	22	24	24	24	24	26	26	26	26	28	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	36	
Weight(kg)	66	67.2	68.4	69.6	70.8	72	73.2	74.4	75.6	76.8	78	79.2	80.4	81.6	82.8	84	85.2	86.4	87.6	88.8	90	91.2	92.4	93.6	94.8	96	97.2	98.4	99.6	100.8	

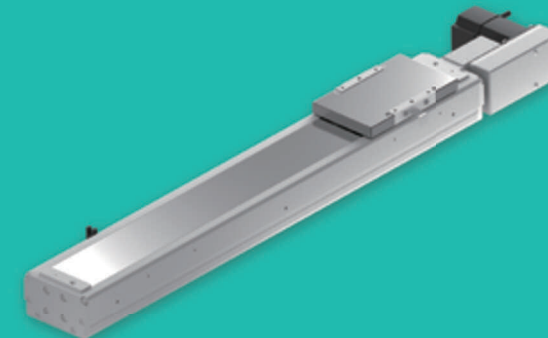
Sub-standard full-density synchronous belt drive type



YTC 135



YTC 170



YTC 220

Code

YTC135

Item NO.

L50

Lead

L50:
D01~D06
L110:
D07~D09

500

Stroke

100-4000,
Gap100

Note

DB

Auxiliary Block

M01:Block
Single slider
DB_Auxiliary Block

4P

Motor Mounting Direction

4P

D01

Motor Mounting Direction

D01
D02
D03
D04
D05
D06
D07
D08
D09

M40

Motor Brand、Power Output

M Mitsubishi 10 -
P Panasonic 20 200W
Y Yaskawa 40 400W
D Delta 75 -
1k -

P3

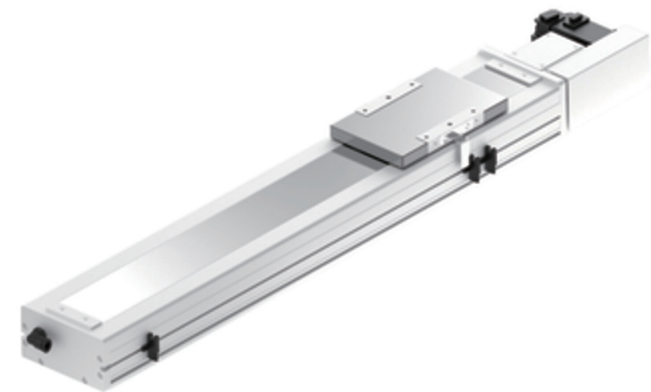
Photoelectric Sensor

P1:1PC
P2:2PCS
P3:3PCS
No Mark/No Sensor

A001

Special Order No.

No Mark/No Sensor



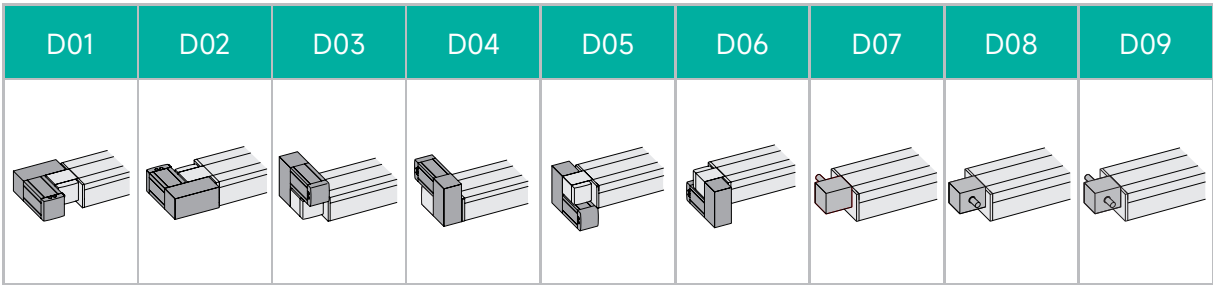
Max Static Forces And Torques

Type	4P
■F(y)(N)	5370
■F(z)(N)	5370
■M(x)(N·m)	142
■M(y)(N·m)	104
■M(z)(N·m)	346

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

Motor Mounting Position Version



Basic Specification

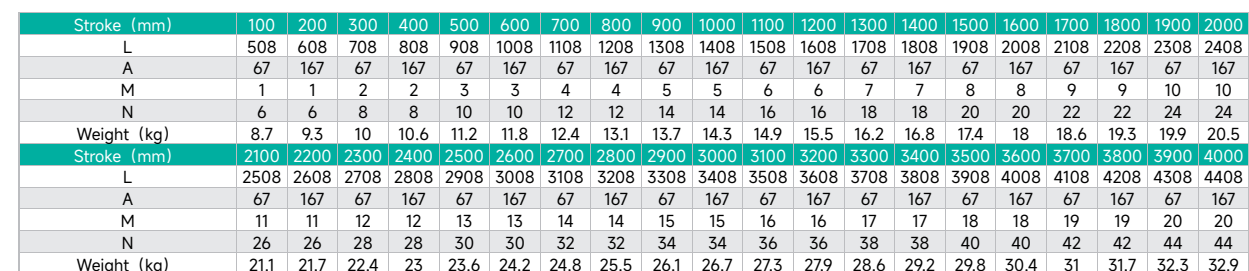
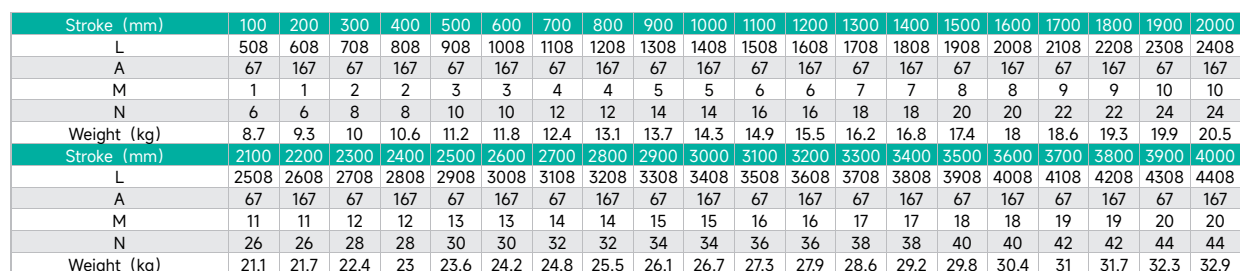
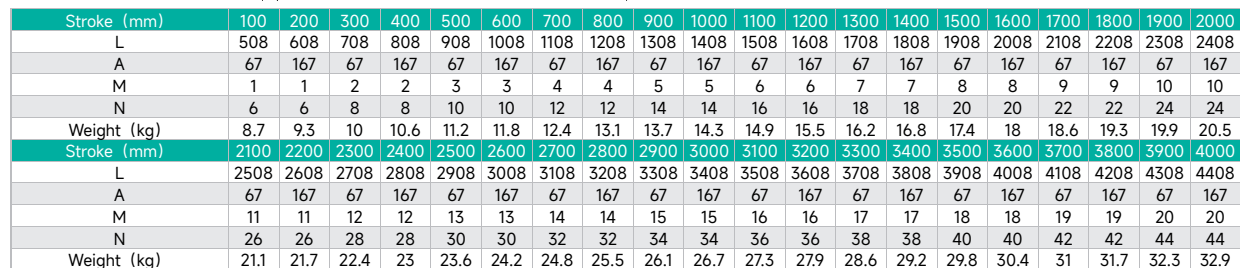
YTC135		4P(Block Quantity)
Technical Parameters	Repetitive Accuracy(mm)	±0.05
	Pulley Lead(mm)	110 / 50
	Belt type	5M-25
	Maximum Speed(mm/s)	3000
	Maximum Payload	Horizontal(kg) 40 Vertical(kg) 12
	Max. No-load Driving Torque(N·m)	0.3
	Max. Driving Torque(N·m)	6
Basic Specification	Stroke(mm)	100-4000 mm/ 100 Pitch
	AC Servo Motor Output(W)	400
	Linear Guide(mm)	15#×2 PCS
	Max Outline of Main Engine's Cross Section(mm)	135×91
Home Sensor		EE-SX672(NPN)

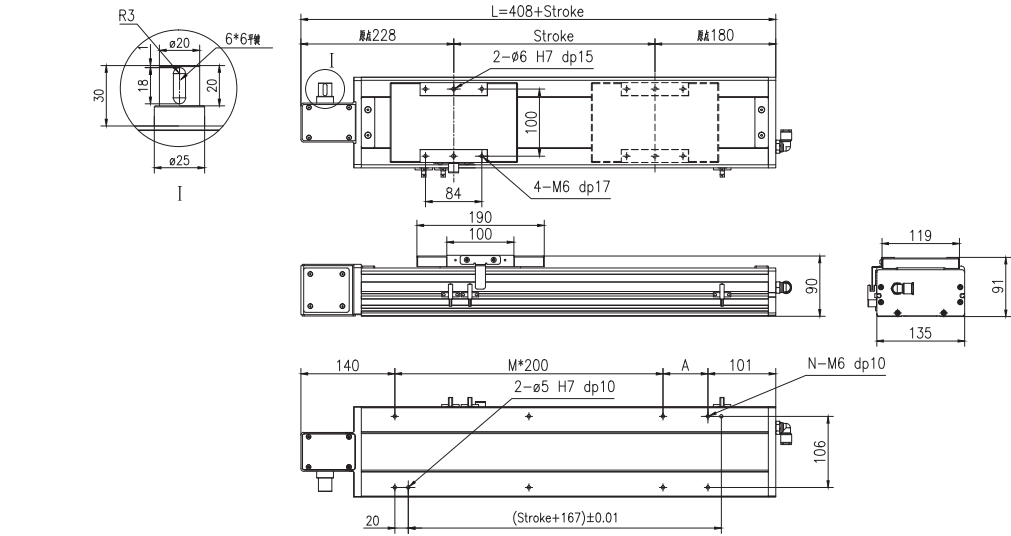
#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

#Note 2:Pulley's original lead is 110mm,which standard type is equipped with reduction facility normally, and its lead is 50mm after deceleration.

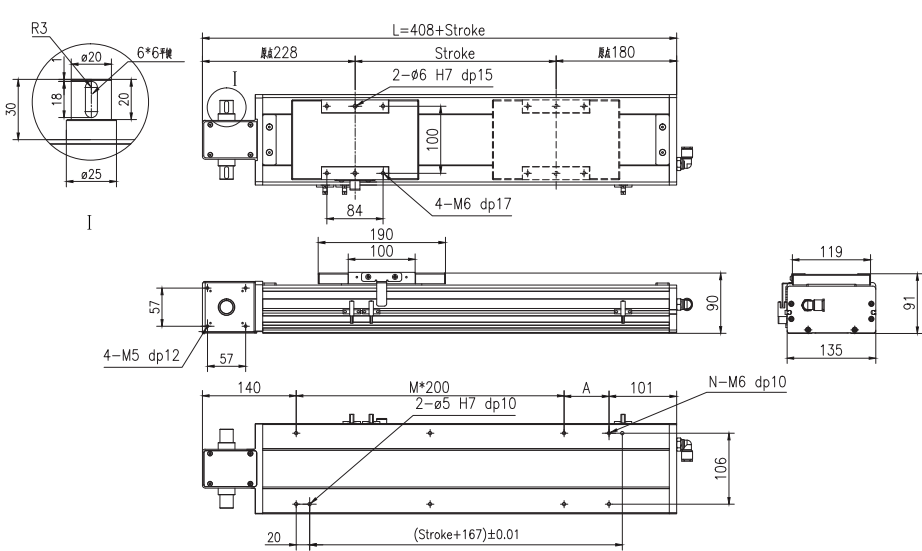
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9

Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9

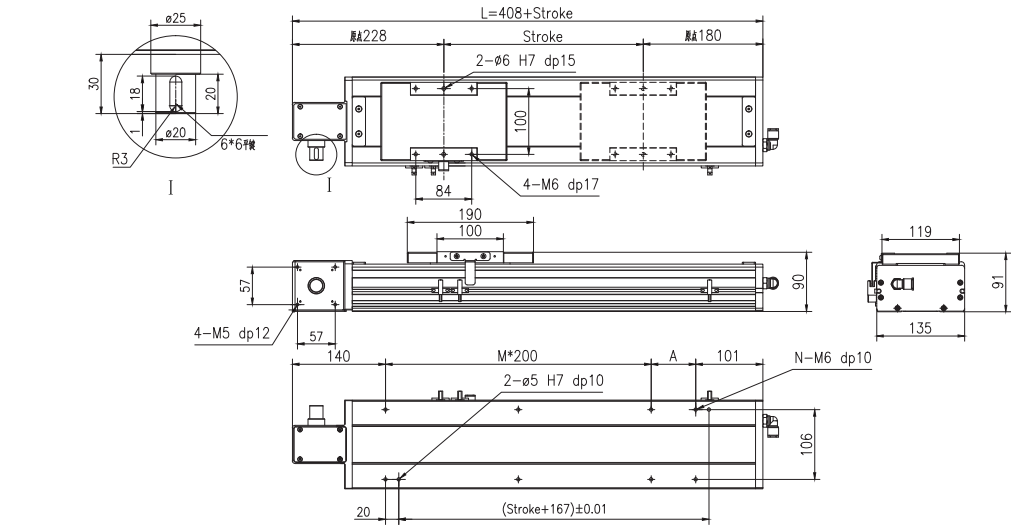




Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	508	608	708	808	908	1008	1108	1208	1308	1408	1508	1608	1708	1808	1908	2008	2108	2208	2308	2408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	8.7	9.3	10	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.9	15.5	16.2	16.8	17.4	18	18.6	19.3	19.9	20.5
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2508	2608	2708	2808	2908	3008	3108	3208	3308	3408	3508	3608	3708	3808	3908	4008	4108	4208	4308	4408
A	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167	67	167
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	21.1	21.7	22.4	23	23.6	24.2	24.8	25.5	26.1	26.7	27.3	27.9	28.6	29.2	29.8	30.4	31	31.7	32.3	32.9

Code

YTC170

Item NO.

-

L40

Lead

L40:
D01-D06
L100:
D07-D09

-

500

Stroke

100-4000,
Gap100

-

DB

Auxiliary Block

Note:
Stroke Error
DB_Auxiliary Block

-

4P

Block Quantity

4P

-

D01

Motor Mounting Direction

D01
D02
D03
D04
D05
D06
D07
D08
D09

-

M40

Motor Brand, Power Output

M Mitsubishi 10 ~
P Panasonic 20 200W
Y Yaskawa 40 400W
D Delta 75 750W 1K -

-

P3

Photoelectric Sensor

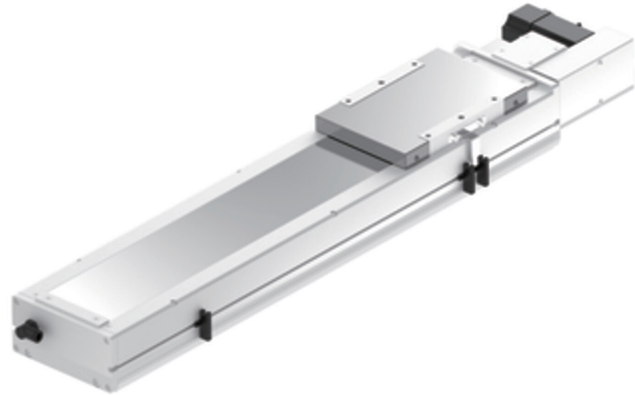
P1:1PC
P2:2PCS
P3:3PCS
No Mark/No Sensor

-

A001

Special Order No.

No Mark/No Sensor



Max Static Forces And Torques

Type	4P
■F(y)(N)	7463
■F(z)(N)	7463
■M(x)(N·m)	339
■M(y)(N·m)	178
■M(z)(N·m)	742

All forces and torques relate to the following:

$$\frac{F_y}{F_y \max.} + \frac{F_z}{F_z \max.} + \frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

Motor Mounting Position Version

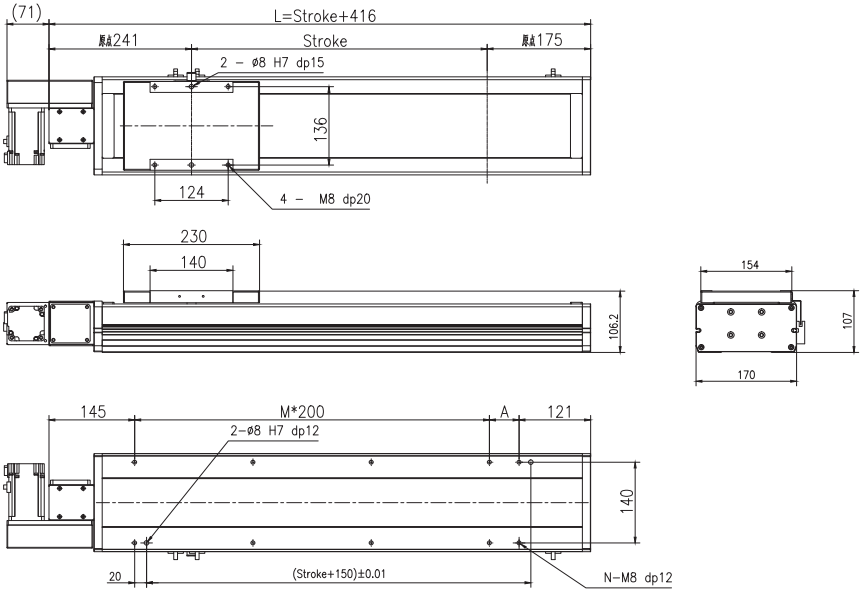
D01	D02	D03	D04	D05	D06	D07	D08	D09

Basic Specification

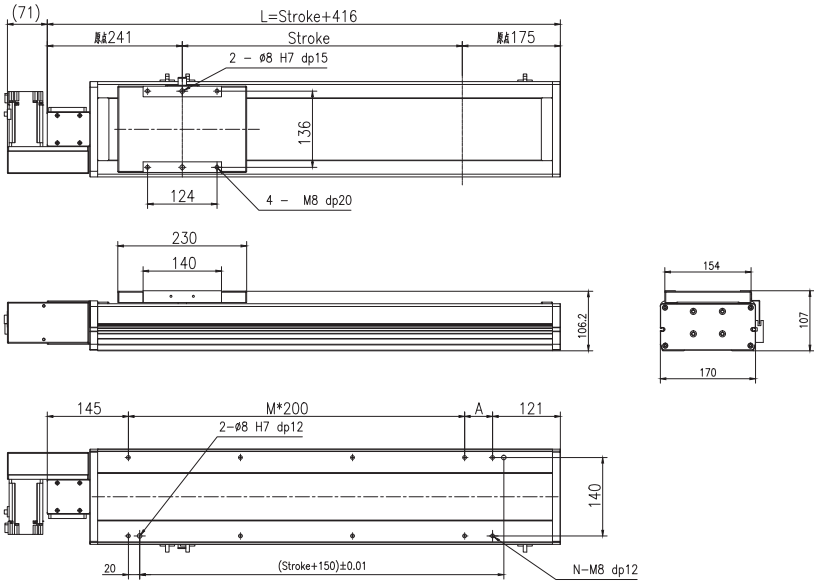
YTC 170			4P(Block Quantity)	
Technical Parameters	Repetitive Accuracy(mm)		±0.05	
	Pulley Lead(mm)		100 / 40	
	Belt type		5M-30	
	Maximum Speed(mm/s)		2400	
	Maximum Payload	Horizontal(kg)	60	
		Vertica(kg)	20	
	Max. No-load Driving Torque(N·m)		0.3	
Max. Driving Torque(N·m)		6		
Basic Specification	Stroke(mm)		100-4000 mm/ 100 Pitch	
	AC Servo Motor Output(W)		400	
	Linear Guide(mm)		20#×2 PCS	
	Belt Width		30	
	Max Outline of Main Engine's Cross Section(mm)		170×107	
	Home Sensor		EE-SX672(NPN)	

#Note1:Date changes relevently according to different torque and accelrated speed.Please refer to the LIMON calculate software.

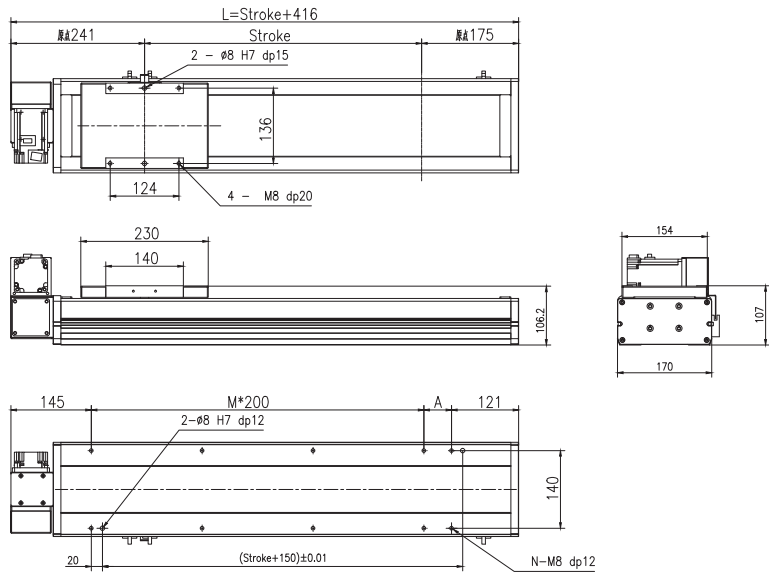
#Note 2:Pulley's original lead is 100mm,which standard type is equipped with reduction facility normally, and its lead is 40mm after deceleration.



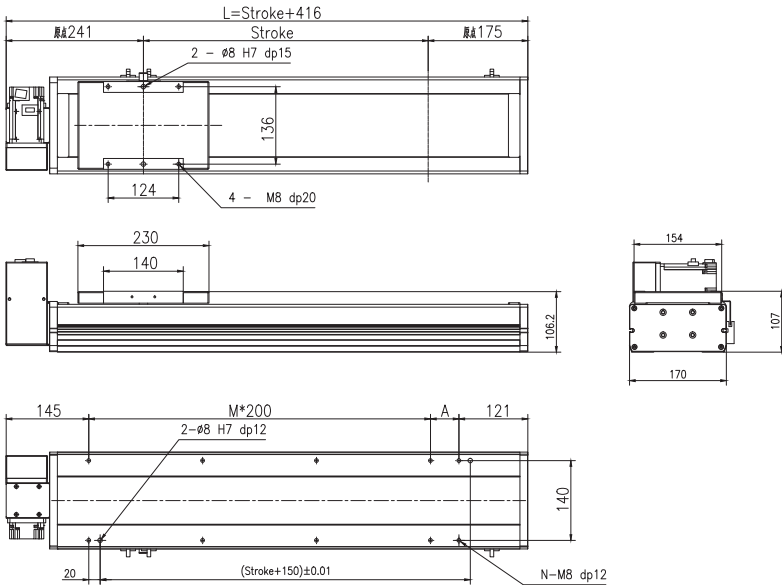
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4



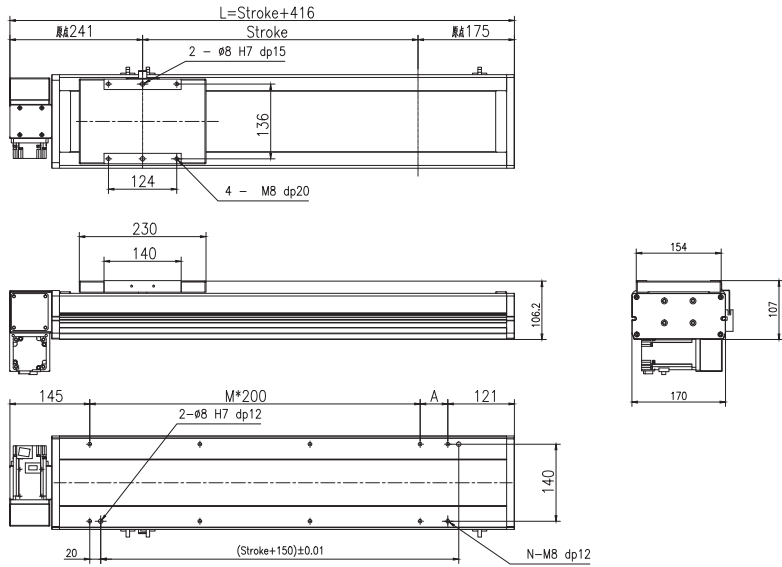
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4



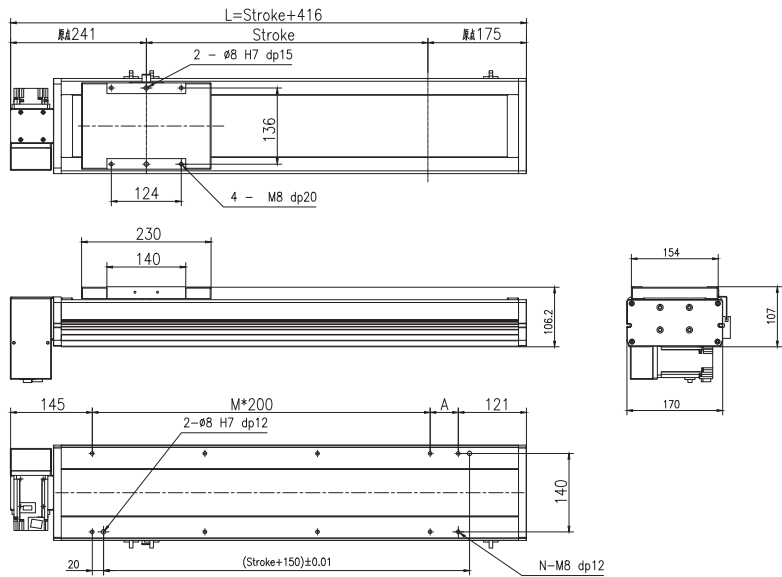
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4



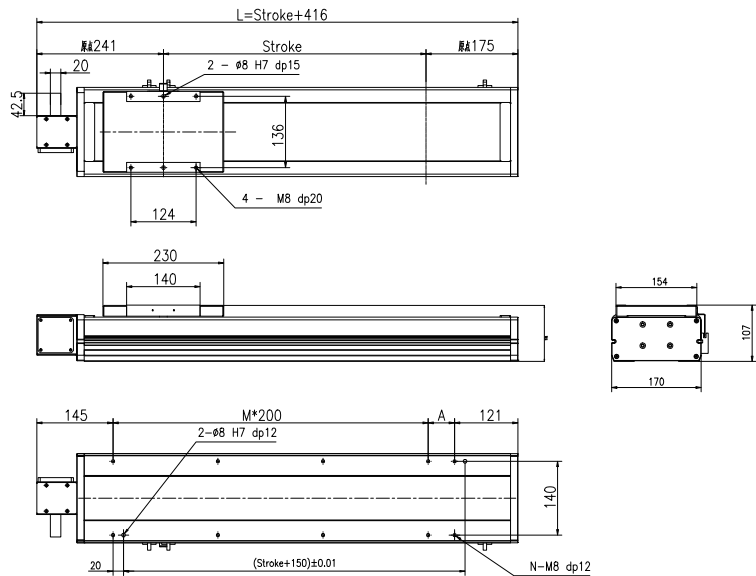
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4



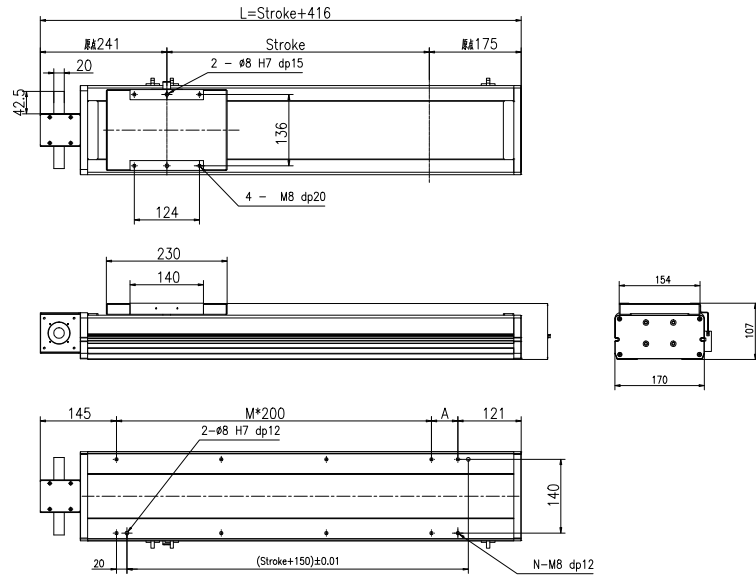
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4



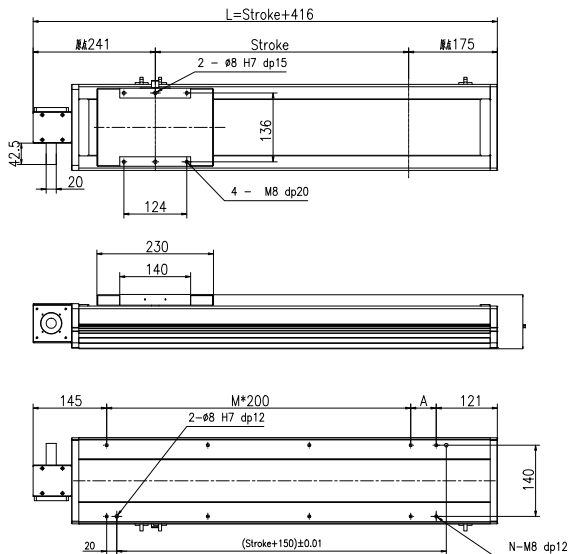
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816	1916	2016	2116	2216	2316	2416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	12	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2516	2616	2716	2816	2916	3016	3116	3216	3316	3416	3516	3616	3716	3816	3916	4016	4116	4216	4316	4416
A	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.6	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4

Code

YTC220

Item NO.

-

L40

Lead

L40:
D01-D06

-

500

Stroke

100-4000,
Gap100

-

DB

Auxiliary Block

Note
Not fitted:
Single slider
DB_Auxiliary Block

-

4P

Block Quantity

4P

-

D01

Motor Mounting Direction

D01
D02
D03
D04
D05
D06
D07
D08
D09

-

M40

Motor Brand, Power Output

M Mitsubishi 10 -
P Panasonic 20 200W
Y Yaskawa 40 400W
D Delta 75 750W
1K -

-

P3

Photoelectric Sensor

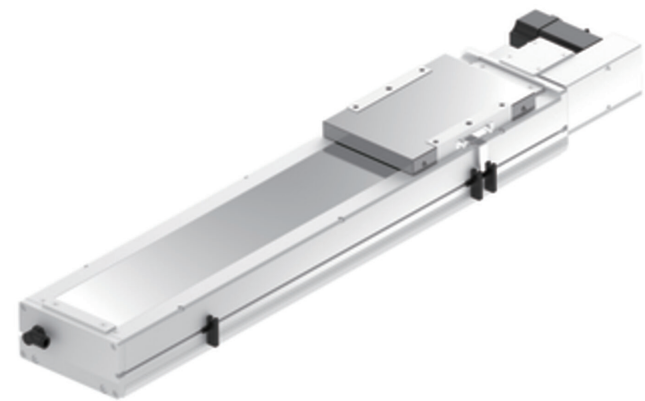
P1:1PC
P2:2PCS
P3:3PCS
No Mark/No Sensor

-

A001

Special Order No.

No Mark/No Sensor



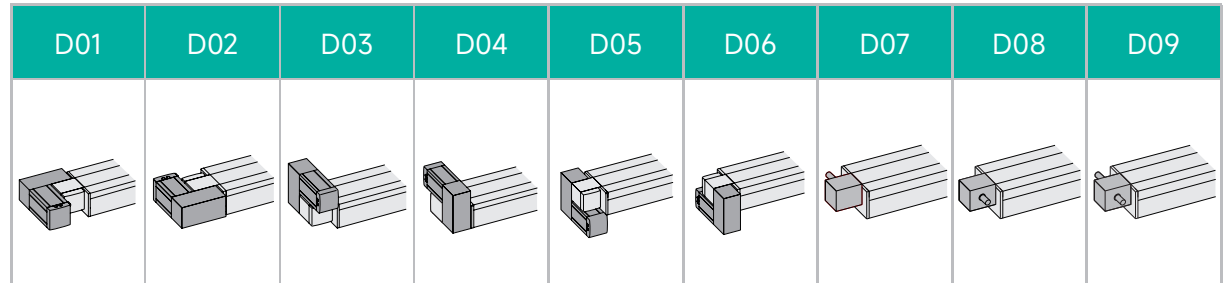
Max Static Forces And Torques

Type	4P
■ F(y)(N)	10333.3
■ F(z)(N)	10333.3
■ M(x)(N·m)	1810
■ M(y)(N·m)	2052
■ M(z)(N·m)	2052

•除了满足最大负载和力矩外，还必须满足以下公式：
All forces and torques relate to the following:

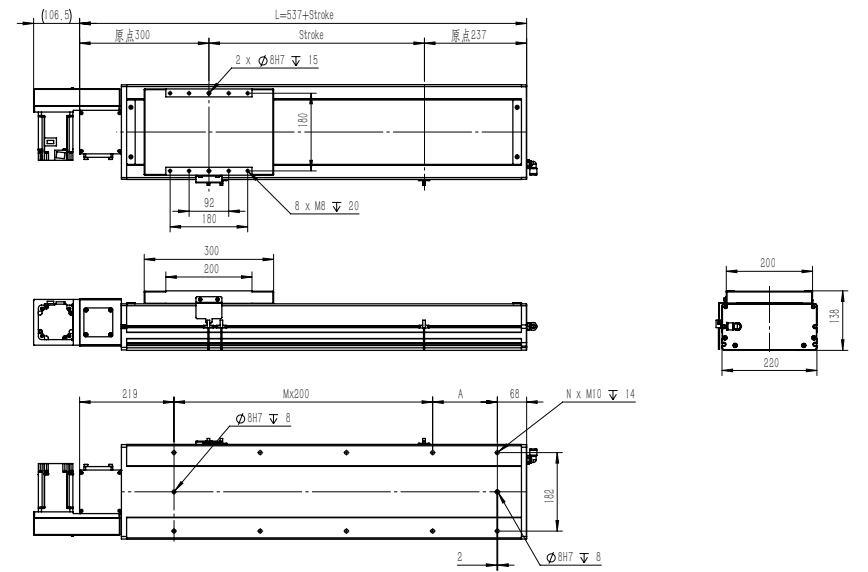
$$\frac{F_y}{F_{y\max.}} + \frac{F_z}{F_{z\max.}} + \frac{M_x}{M_{x\max.}} + \frac{M_y}{M_{y\max.}} + \frac{M_z}{M_{z\max.}} \leq 1$$

Motor Mounting Position Version

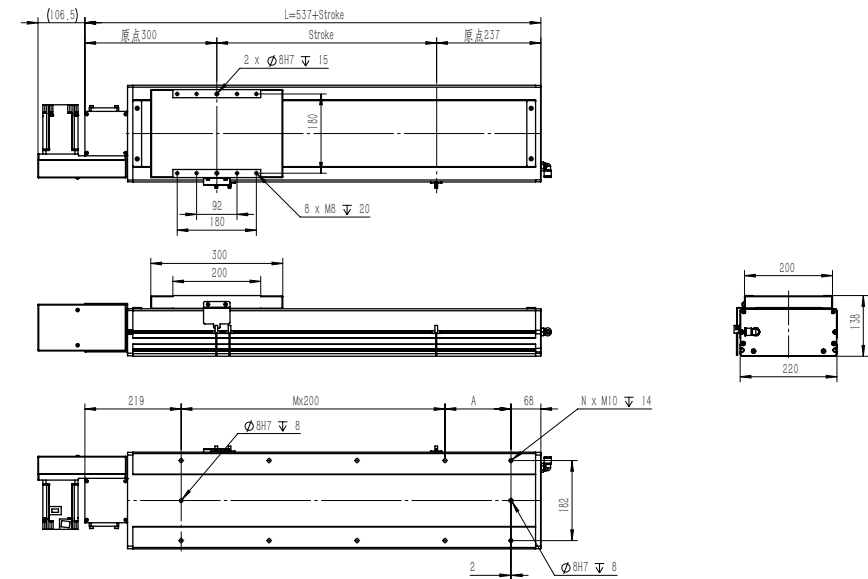


Basic Specification

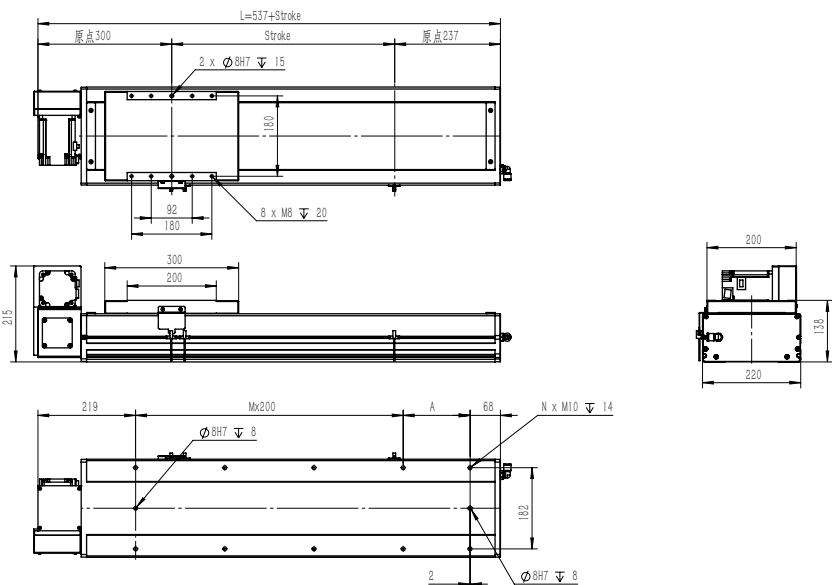
YTC 220		4P(Block Quantity)	
Technical Parameters	Repetitive Accuracy(mm)	±0.05	
	Pulley Lead(mm)	100 / 40	
	Belt type	5M-50	
	Maximum Speed(mm/s)	2000	
	Maximum Payload	Horizontal(kg)	85
		Vertical(kg)	/
	Max. No-load Driving Torque(N·m)	0.3	
Basic Specification	Max. Driving Torque(N·m)	6	
	Stroke(mm)	100-4000 mm/ 100 Pitch	
	AC Servo Motor Output(W)	750	
	高刚性直线滑Linear Guide(mm)	25#×2 PCS	
	皮带宽度Belt Width	50	
	主机截面最大外形 Max Outline of Main Engine's Cross Section(mm)	220×138	
原点感应器 Home Sensor		EE-SX672(NPN)	



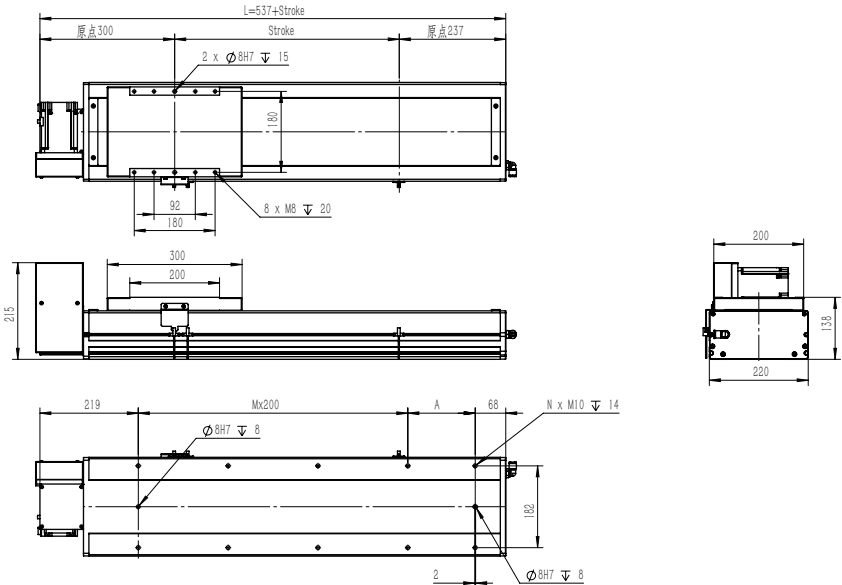
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6



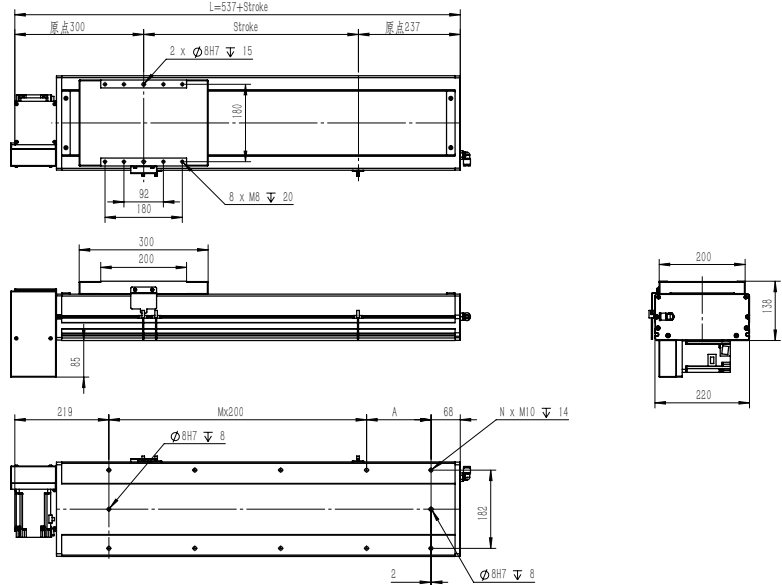
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6



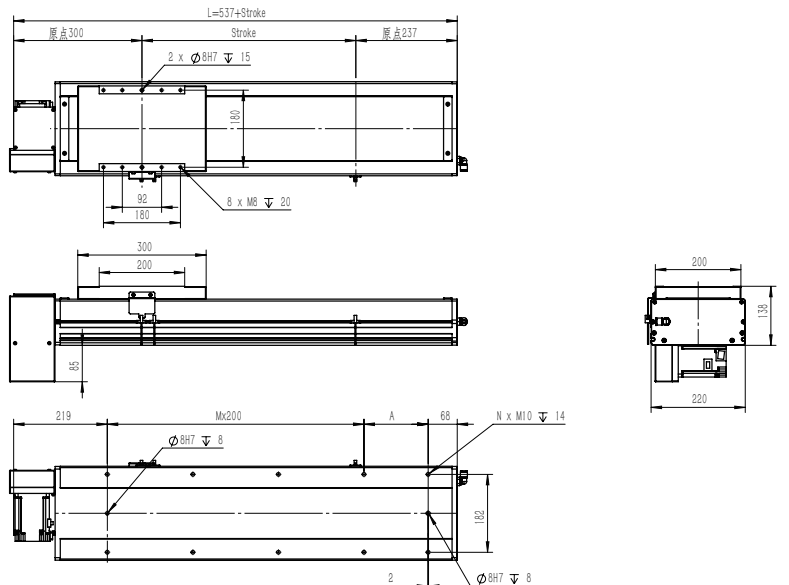
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6



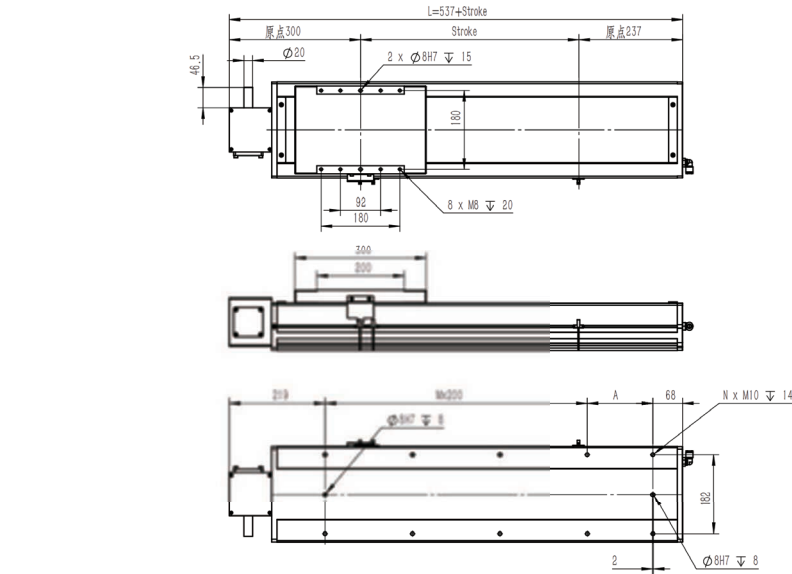
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6



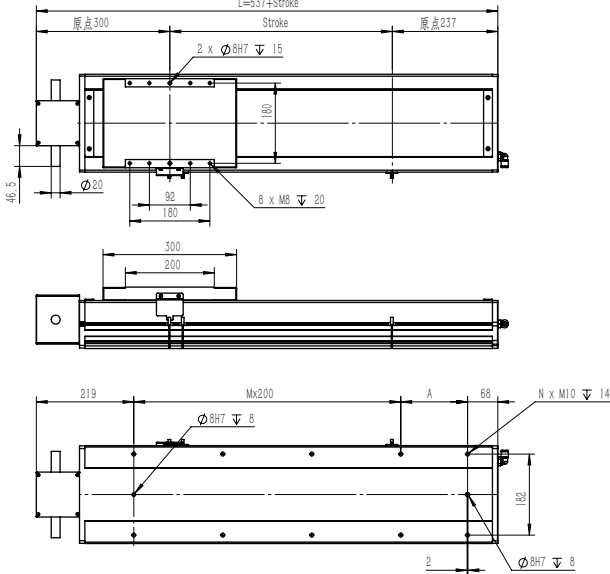
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6



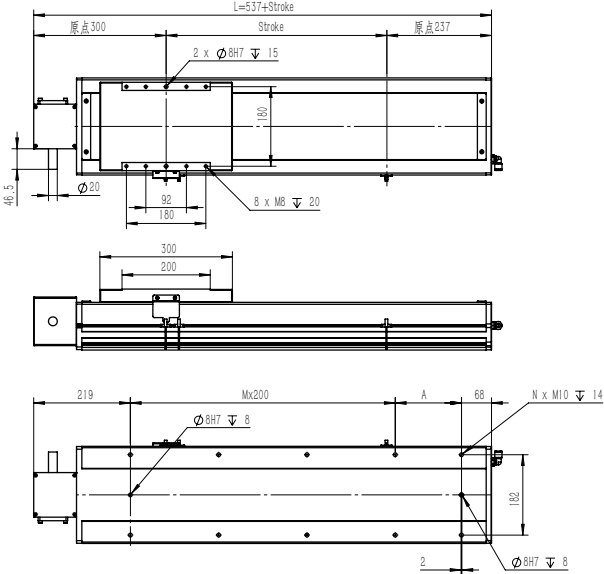
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6

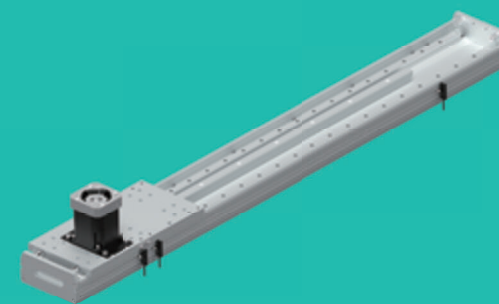


Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6

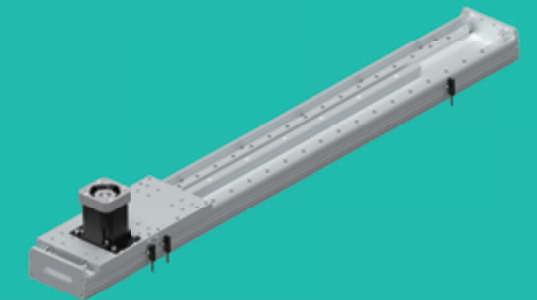


Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	637	737	837	937	1037	1137	1237	1337	1437	1537	1637	1737	1837	1937	2037	2137	2237	2337	2437	2537
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
Weight (kg)	33.0	35.4	37.8	40.2	42.6	45.0	47.4	49.8	52.5	54.6	57.0	59.4	61.8	64.2	66.6	69.0	71.4	73.8	76.2	78.6
Stroke (mm)	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
L	2637	2737	2837	2937	3037	3137	3237	3337	3437	3537	3637	3737	3837	3937	4037	4137	4237	4337	4437	4537
A	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
M	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20
N	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44
Weight (kg)	81.0	83.4	85.8	88.2	90.6	93.0	95.4	97.8	100.2	102.6	105.0	107.4	109.8	112.2	114.6	117.0	119.4	121.8	124.2	126.6

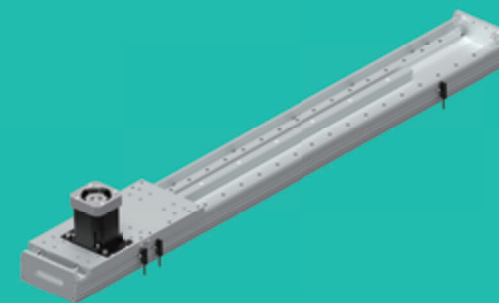
Semi-tight rack and pinion drive type



YRO170



YRO220



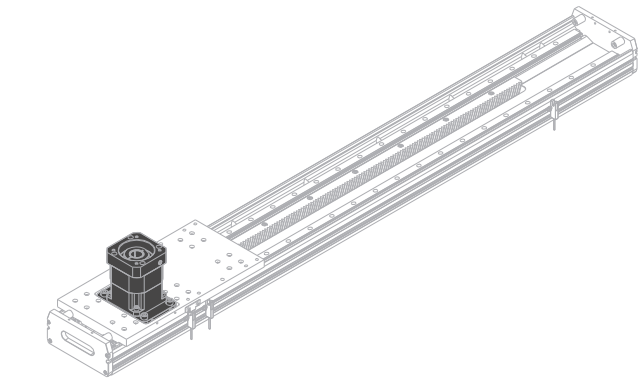
YRO270

Code

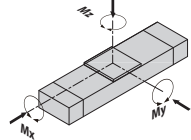
YRO170	L26	1000	6P	MS	GB3	22	P3	A001
Item NO.	Lead	Stroke	Block Quantity	Motor Mounting Direction	Reducer specifications	Hole dimension of Pinion	Photoelectric Sensor	Special Order No.
	L13: 13mm L26: 26mm L44: 44mm	900-5500, Gap100	6P				P1:1PC P2:2PCS P3:3PCS No Mark:No Sensor	NoMark.NoSensor



Motor Mounting Position Version



Max Static Forces And Torques

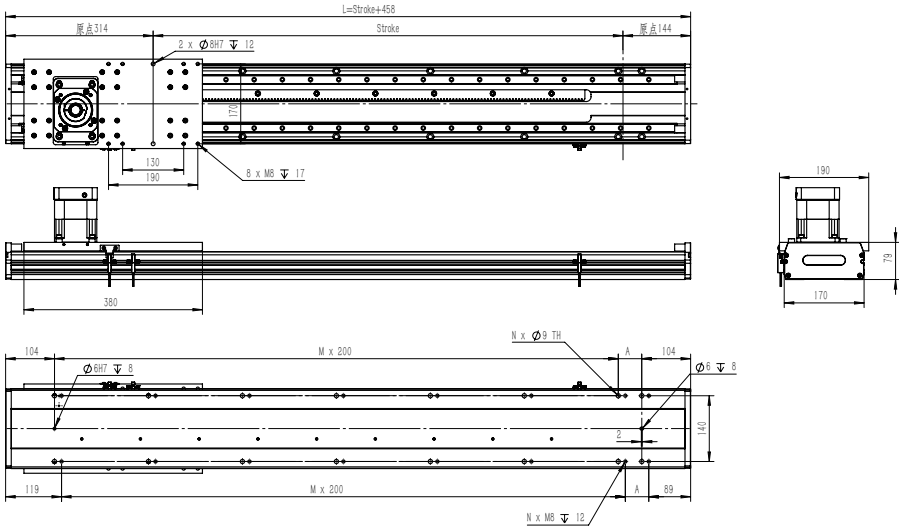
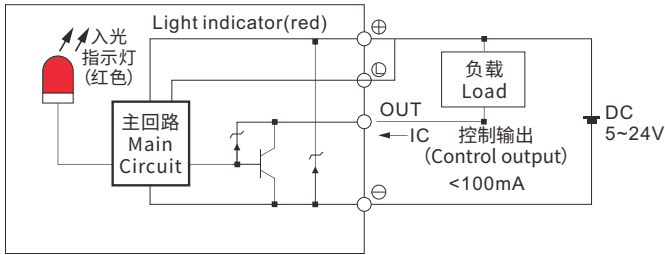


Type	YRO 170
■ M(x)(N·m)	1180
■ M(y)(N·m)	1344
■ M(z)(N·m)	1342

·除了满足最大负载和力矩外，还必须满足以下公式：
All forces and torques relate to the following:

$$\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$$

Sensor Layout



Stroke(mm)	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
L	1358	1458	1558	1658	1758	1858	1958	2058	2158	2258	2358	2458	2558	2658	2758	2858	2958	3058	3158	3258	3358	3458	3558	3658
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38
Weight(kg)	29	30.75	32.5	34.25	36	37.75	39.5	41.25	43	44.75	46.5	48.25	50	51.75	53.5	55.25	57	58.75	60.5	62.25	64	65.75	67.5	69.25
Stroke(mm)	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	
L	3758	3858	3958	4058	4158	4258	4358	4458	4558	4658	4758	4858	4958	5058	5158	5258	5358	5458	5558	5658	5758	5858	5958	
A	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	50	150	
M	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	
N	38	40	40	42	42	44	44	46	46	48	48	50	50	52	52	54	54	56	56	58	58	60	60	
Weight(kg)	71	72.75	74.5	76.25	78	79.75	81.5	83.25	85	86.75	88.5	90.25	92	93.75	95.5	97.25	99	100.7	102.5	104.2	106	107.7	109.5	

Basic Specification

YRO		170		
Technical Parameters	Repetitive Accuracy(mm)	±0.02		
	Rack and Pinion Lead(mm)	13	26	44
	Maximum Speed(mm/s)	650	1300	2200
	Maximum Payload	Horizontal(kg)	250	135
		Vertical(kg)	60	40
	Reducer Speed Ratio	10	5	3
	Rate Thust(N)	1133	566	340
Basic Specification	Stroke(mm)	900-5500 mm / 100 Pitch		
	AC Servo Motor Output(W)	750		
	Linear Guide(mm)	W20×H19		
	Home Sensor	EE-SX672(NPN) EE-SX672P(PNP)		

#Note1:Acceleration and deacceleration value is set 0.2 second.

Allowable Overhang

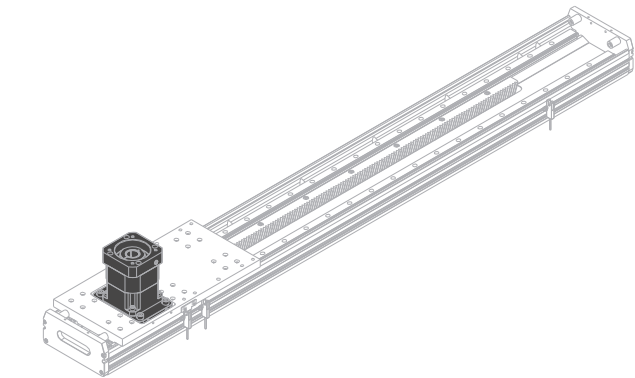
Horizontal Installation					Wall Installation					Vertical Installation				
Unit: mm					Unit: mm					Unit: mm				
13 lead	A	B	C		13 lead	A	B	C		13 lead	A	C		
	100kg	1300	260	195		100kg	300	300	1300		30kg	1000	800	
	200kg	637	127	96		200kg	147	147	637		45kg	654	512	
26 lead	300kg	420	85	64	26 lead	300kg	98	98	420	26 lead	80kg	364	282	
	40kg	1625	533	415		40kg	610	555	2600		20kg	1219	975	
	80kg	797	261	203		80kg	299	272	1274		30kg	797	624	
44 lead	160kg	394	129	100	44 lead	160kg	148	135	631	44 lead	50kg	437	367	
	30kg	1083	433	358		30kg	579	541	2167		8kg	2217	1773	
	50kg	637	255	211		50kg	347	317	1274		20kg	868	681	
	100kg	316	126	104		100kg	172	157	631		30kg	573	445	

Code

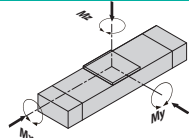
YRO220	L26	1000	6P	MS	GB3	22	P3	A001
Item NO.	Lead	Stroke	Block Quantity	Motor Mounting Direction	Reducer specifications	Hole dimension of Pinion	Photoelectric Sensor	Special Order No.
	L13: 13mm L26: 26mm L44: 44mm	900-5500,Gap100	6P				P1:1PC P2:2PCS P3:3PCS No Mark:No Sensor	No Mark:No Sensor



Motor Mounting Position Version



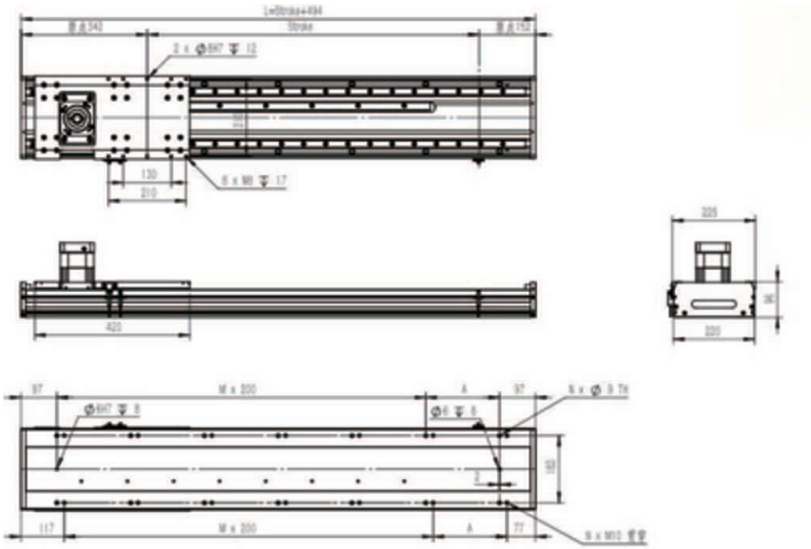
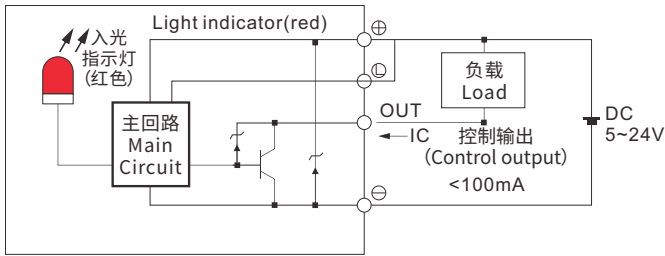
Max Static Forces And Torques



Type	YRO 220
■M(x)(N·m)	1810
■M(y)(N·m)	2052
■M(z)(N·m)	2052

·除了满足最大负载和力矩外，还必须满足以下公式：
All forces and torques relate to the following:
$$\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$$

Sensor Layout



Stroke(mm)	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
L	1394	1494	1594	1694	1794	1894	1994	2094	2194	2294	2394	2494	2594	2694	2794	2894	2994	3094	3194	3294	3394	3494	3594	3694
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100
M	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17
N	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38
Weight(kg)	46.6	48.87	51.54	54.21	56.88	59.55	62.22	64.89	67.56	70.23	72.9	75.57	78.24	80.91	83.58	86.25	88.92	91.59	94.26	96.93	99.6	102.2	104.9	107.6
Stroke(mm)	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	
L	3794	3894	3994	4094	4194	4294	4394	4494	4594	4694	4794	4894	4994	5094	5194	5294	5394	5494	5594	5694	5794	5894	5994	
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	
M	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	
N	38	40	40	42	42	44	44	46	46	48	48	50	50	52	52	54	54	56	56	58	58	60	60	
Weight(kg)	110.3	113	115.6	118.3	121	123.6	126.3	129	131.6	134.3	137	139.7	142.3	145	147.7	150.3	153	155.7	158.3	161	163.7	166.3	169	

Basic Specification

YRO		220		
Technical Parameters	Repetitive Accuracy(mm)	±0.02		
	Rack and Pinion Lead(mm)	13	26	44
	Maximum Speed(mm/s)	650	1300	2200
	Maximum Payload	Horizontal(kg)	300	160
		Vertical(kg)	80	50
	Reducer Speed Ratio	10	5	3
	Rate Thust (N)	1133	566	340
Basic Specification	Stroke(mm)	900-5500 mm / 100 Pitch		
	AC Servo Motor Output(W)	750		
	Linear Guide(mm)	W23×H18		
	Home Sensor	EE-SX672(NPN) EE-SX672P(PNP)		

#Note1:Acceleration and deacceleration value is set 0.2 second.

Allowable Overhang

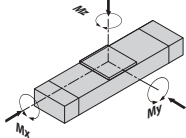
Horizontal Installation					Wall Installation					Vertical Installation				
Unit: mm					Unit: mm					Unit: mm				
13 lead					13 lead					13 lead				
40kg	A	1950	385	273	40kg	A	420	436	130	30kg	A	1300	1039	
	B	956	189	134		B	205	213	637		C	850	666	
	C	631	125	88		C	135	140	420			473	367	
26 lead					26 lead					26 lead				
80kg	A	2438	789	580	80kg	A	853	806	2600	20kg	A	1585	1268	
	B	1195	386	285		B	419	395	1274		C	1035	811	
	C	592	191	140		C	207	195	631			615	477	
44 lead					44 lead					44 lead				
30kg	A	1625	641	501	30kg	A	827	784	2167	8kg	A	2881	2305	
	B	956	377	294		B	486	462	1274		C	1130	886	
	C	473	187	146		C	241	228	631			745	578	

Code

YRO270	L40	1000	6P	MS	GB3	22	P3	A001
	Lead	Stroke	Block Quantity	Motor Mounting Direction	Reducer specifications	Hole dimension of Pinion	Photoelectric Sensor	Special Order No.
	L20: 20mm L40: 40mm L67: 67mm	900-5500,Gap100	6P				P1:1PC P2:2PCS P3:3PCS No Mark:No Sensor	No Mark:No Sensor



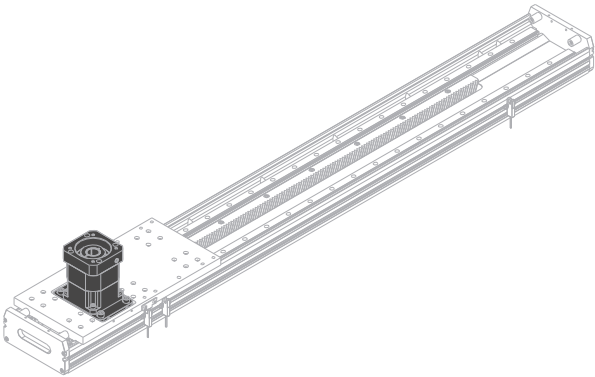
Max Static Forces And Torques



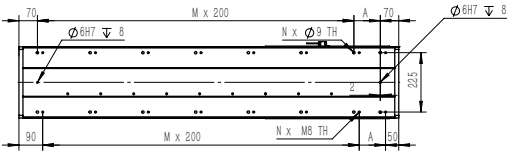
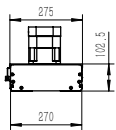
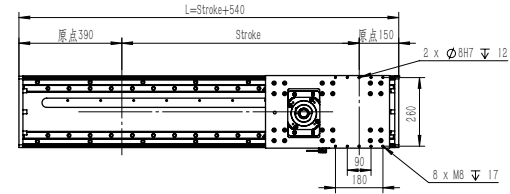
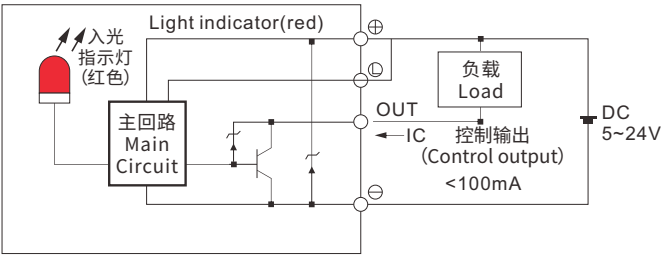
Type	YRO 270
■ M(x)(N·m)	4792
■ M(y)(N·m)	5798
■ M(z)(N·m)	5798

·除了满足最大负载和力矩外，还必须满足以下公式：
All forces and torques relate to the following:
$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

Motor Mounting Position Version



Sensor Layout



Stroke(mm)	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200
L	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	3040	3140	3240	3340	3440	3540	3640	3740
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
N	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38
Weight(kg)	68.6	72.64	76.68	80.72	84.76	88.8	92.84	95.88	100.92	104.96	109	113.04	117.08	121.12	125.16	129.2	133.24	137.28	141.32	145.36	149.4	153.44	157.48	161.52
Stroke(mm)	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900	5000	5100	5200	5300	5400	5500	
L	3840	3940	4040	4140	4240	4340	4440	4540	4640	4740	4840	4940	5040	5140	5240	5340	5440	5540	5640	5740	5840	5940	6040	
A	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	
M	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	29	
N	40	40	42	42	44	44	46	46	48	48	50	50	52	52	54	54	56	56	58	58	60	60	62	
Weight(kg)	162.56	166.6	170.64	174.68	178.72	182.76	186.8	190.84	194.88	198.92	202.96	207	211.04	215.08	219.12	223.16	227.2	231.24	235.28	239.32	243.36	247.4	251.44	

Basic Specification

YRO		270		
Technical Parameters	Repetitive Accuracy(mm)	±0.02		
	Rack and Pinion Lead(mm)	20	40	67
	Maximum Speed(mm/s)	667	1333	2233
	Maximum Payload	Horizontal(kg)	400	220
		Vertical(kg)	200	100
	Reducer Speed Ratio	10	5	3
Basic Specification	Rate Thust (N)	2040	1020	612
	Stroke(mm)	900-5500 mm / 100 Pitch		
	AC Servo Motor Output(W)	2000		
	Linear Guide(mm)	W28×H23		
	Home Sensor	EE-SX674(NPN) EE-SX674P(PNP)		

Allowable Overhang

Horizontal Installation					Wall Installation					Vertical Installation				
Unit: mm					Unit: mm					Unit: mm				
	A	B	C			A	B	C			A	C		
20 lead	260kg	2230	448	370	20 lead	260kg	342	401	2314	20 lead	100kg	2000	2000	
	330kg	1991	341	284		330kg	280	331	1952		150kg	1433	1433	
	400kg	1670	273	230		400kg	234	277	1682		200kg	1036	1036	
40 lead	100kg	1190	486	352	40 lead	100kg	325	448	1104	40 lead	70kg	2162	2162	
	150kg	880	338	258		150kg	240	330	851		100kg	1626	1626	
	200kg	702	289	202		200kg	204	276	718		-	-	-	
67 lead	60kg	1725	1200	784	67 lead	60kg	1008	1544	2066	67 lead	36kg	2806	2806	
	90kg	1120	1022	460		90kg	606	945	1410		55kg	1641	1641	
	120kg	772	490	304		120kg	332	500	774		-	-	-	

Linear Motor Driven Type With Iron Core



LC 50 / 75 / 100 / 125



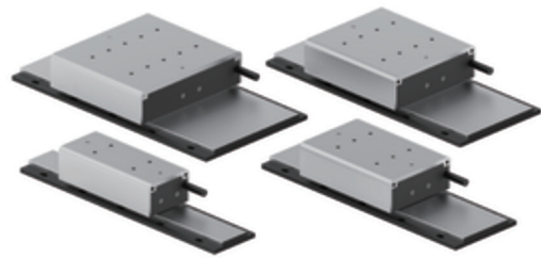
GLC 50 / 80



RLO 125 / 150 / 220



RLC 125 / 150 / 220



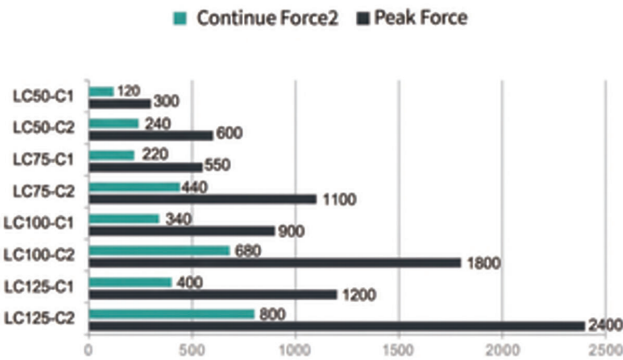
The iron-core linear motor, or flat motor, excels in thrust and heat dissipation for heavy-duty, high-speed, and precision applications. Limon's expertise and electromagnetic optimization result in low vibration, ensuring superior stability. With a standard thrust range of $\leq [120-800]N$ and a peak range of $\leq [300-2400]N$, it effectively meets diverse industrial automation motion needs. Customization options are available for specific customer applications.

Product features

- ★ Low setback, excellent heat dissipation performance
- ★ Powerful thrust and heavy load capacity
- ★ High acceleration and deceleration, high operating speed
- ★ Wide coverage of power range
- ★ Flexible customization of products according to customer needs

Application field

- ★ CNC machining
 - ★ Semiconductor equipment
 - ★ Medical devices
 - ★ Laser cutter
 - ★ 3D printer
- ★ Textile machinery
 - ★ Electronic equipment production line
 - ★ Flight simulator
 - ★ Robot
 - ★ Packaging machinery



Naming Rule

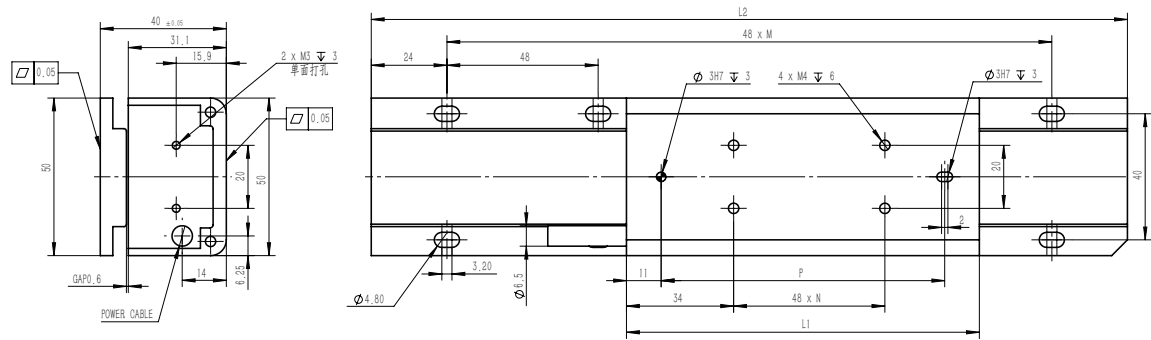
Naming Rule of Motor Forcer

LC	50	C1	T	H	W	05
Linear motor with iron core	Product Series	Specific product model	Temperature Sensor	Hall Sensor	Cooling form	Outlet length
			- Without temperature sensor T With temperature sensor	- Without Hall sensor H With Hall sensor	- Natural cooling A Air cooling W Water cooling	03 300mm 05 500mm 10 1000mm 30 3000mm 50 5000mm

Naming Rule of Motor Stator

LC	50	M	48
Linear motor with iron core	Motor Series	Stator product	Stator Length
			48 144 240

LC 50



Dimension Parameter

	Electric Motor Item No.	L1	N	P	L2	M
Coil Item No.	LC50-C1	112	1	90	/	/
	LC50-C2	208	3	186	/	/
Stator Item No.	LC50-M48	/	/	/	48	0
	LC50-M144	/	/	/	144	2
	LC50-M240	/	/	/	240	4

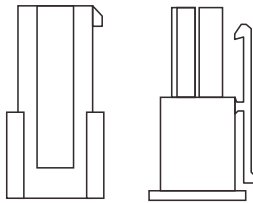


Performance Parameter

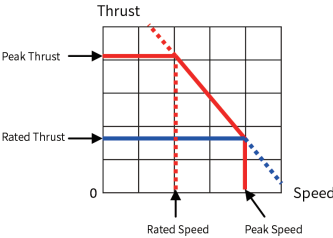
Coil Item No.	Continue Force (n)	Peak Force (n)	Load (1G)	Rated Current (A)	Peak Current (A)	Force Constant (n/arms)	Resistance (Ω)	Inductance (mh)	Weight (kg)	Polar Distance (mm)	Rated Speed (m/s)	Maximum Speed (m/s)	Mutual Attraction (N)
LC50-C1	120	300	25	3.6	9.1	33	3.5	18.1	0.83	24	5	8	600
LC50-C2	240	600	50	3.6	9.1	66	7	36.2	1.6	24	2.6	4.1	1200

Pin no.	Signal	Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

◎ Note 1
Specification of motor cable
Outer diameter (mm): $\phi 6.5mm$
Occasional flexing: $7.5 \times$ outer diameter
Fixed installation: $4 \times$ outer diameter

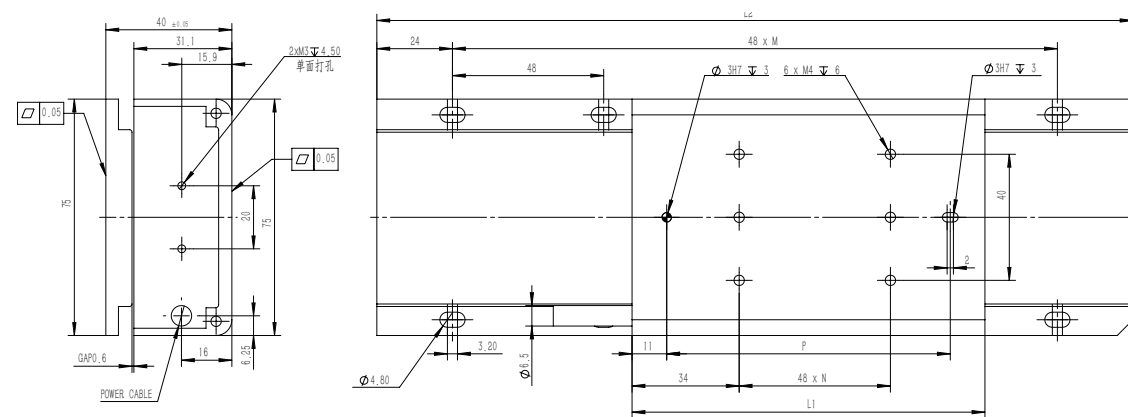


Public Terminal:
HX42001-31PT
Male terminal housing:
HX42000-4R
Mother Terminal:
HX42000-31RT
Mother terminal housing:
HX42001-4P



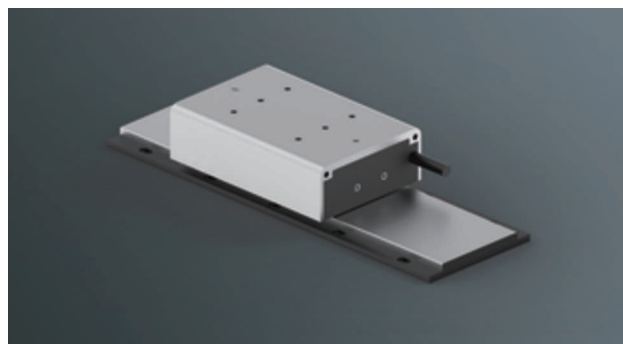
Definition diagram of thrust speed curve

LC 75



Dimension Parameter

	Electric Motor Item No.	L1	N	P	L2	M
Coil Item No.	LC75-C1	112	1	90	/	/
	LC75-C2	208	3	186	/	/
Stator Item No.	LC75-M48	/	/	/	48	0
	LC75-M144	/	/	/	144	2
	LC75-M240	/	/	/	240	4



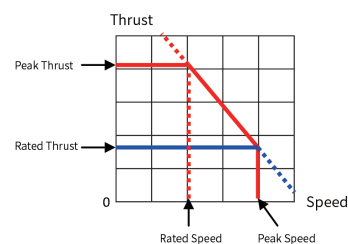
Performance Parameter

Coil Item No.	Continue Force (n)	Peak Force (n)	Load (1G)	Rated Current (A)	Peak Current (A)	Force Constant (n/arms)	Resistance (Ω)	Inductance (mh)	Weight (kg)	Polar Distance (mm)	Rated Speed (m/s)	Maximum Speed (m/s)	Mutual Attraction (N)
LC75-C1	220	550	40	3.6	9.1	61	5.4	30.4	1.3	24	2.6	4.1	1100
LC75-C2	440	1100	80	7.2	18.2	61	2.8	16.3	2.4	24	2.6	4.1	2200

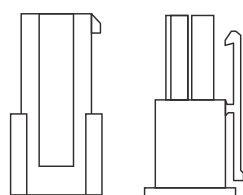
Pin no.	Signal	Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

© Note 1

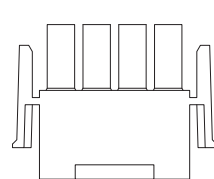
Specification of motor cable
Outer diameter (mm): $\phi 6.5\text{mm}$
Occasional flexing: $7.5 \times$ outer diameter
Fixed installation: $4 \times$ outer diameter



Definition diagram of thrust speed curve

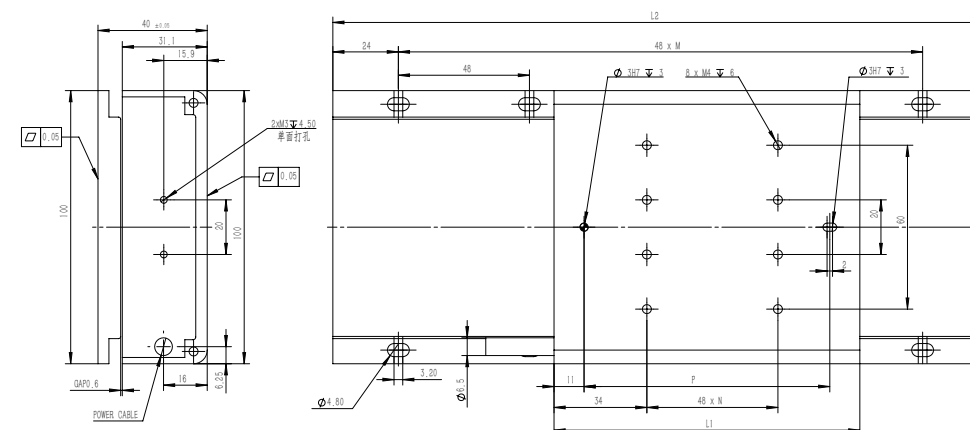


Public Terminal:
HX42001-31PT
Male terminal housing:
HX42000-4R
Mother Terminal:
HX42000-31RT
Mother terminal housing:
HX42001-4P



Public Terminal:
HX63080-31PT
Male terminal housing:
HX63080-4R
Mother Terminal:
HX63080-RT
Mother terminal housing:
HX63080-4R

LC 100



Dimension Parameter

	Electric Motor Item No.	L1	N	P	L2	M
Coil Item No.	LC100-C1	112	1	90	/	/
	LC100-C2	208	3	186	/	/
Stator Item No.	LC100-M48	/	/	/	48	0
	LC100-M144	/	/	/	144	2
	LC100-M240	/	/	/	240	4

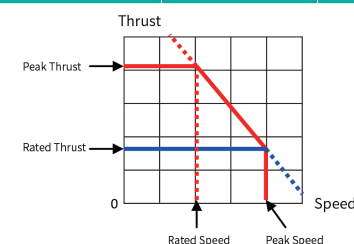
Performance Parameter

Coil Item No.	Continue Force (n)	Peak Force (n)	Load (1G)	Rated Current (A)	Peak Current (A)	Force Constant (n/arms)	Resistance (Ω)	Inductance (mh)	Weight (kg)	Polar Distance (mm)	Rated Speed (m/s)	Maximum Speed (m/s)	Mutual Attraction (N)
LC100-C1	340	900	60	3.6	9.6	94	7.5	42.3	1.8	24	2	3.1	1700
LC100-C2	680	1800	120	7.2	19.2	94	3.9	21.5	3.3	24	2	3.1	3400

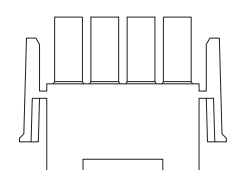
Pin no.	Signal	Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

Note 1

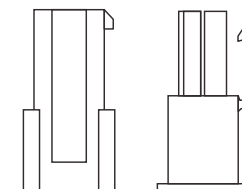
Specification of motor cable
Outer diameter (mm): $\phi 6.5\text{mm}$
Occasional flexing: $7.5 \times$ outer diameter
Fixed installation: $4 \times$ outer diameter



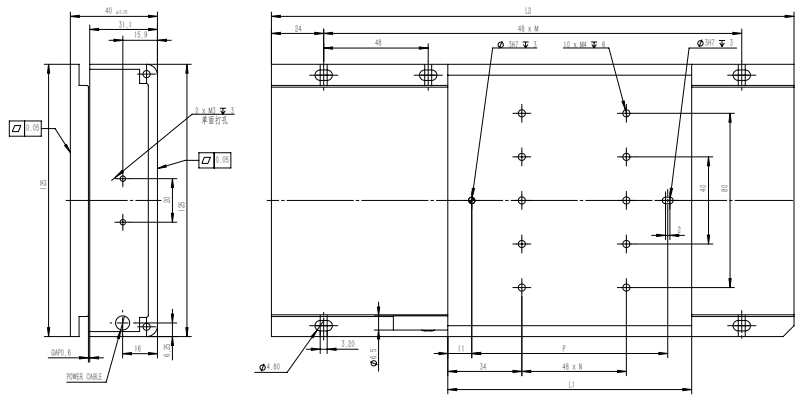
Definition diagram of thrust speed curve



Public Terminal:
HX42001-31PT
Male terminal housing:
HX42000-4R
Mother Terminal:
HX42000-31RT
Mother terminal housing:
HX42001-4P

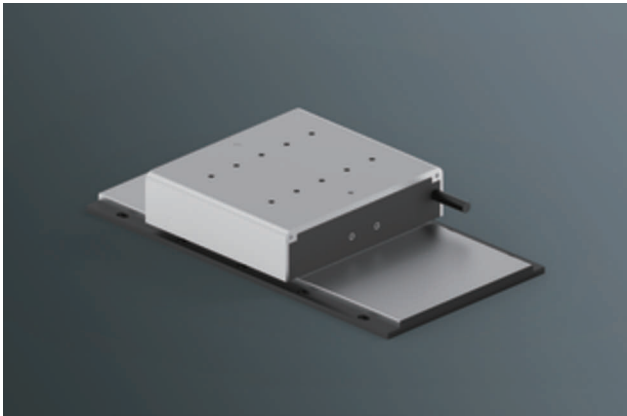


Public Terminal:
HX63080-PT
Male terminal housing:
HX63080-4R
Mother Terminal:
HX63080-RT
Mother terminal housing:
HX63080-4P



Dimension Parameter

	Electric Motor Item No.	L1	N	P	L2	M
Coil Item No.	LC125-C1	112	1	90	/	/
	LC125-C2	208	3	186	/	/
Stator Item No.	LC125-M48	/	/	/	48	0
	LC125-M144	/	/	/	144	2
	LC125-M240	/	/	/	240	4

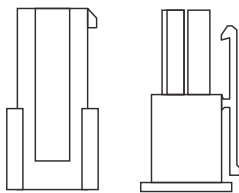


Perfomance Parameter

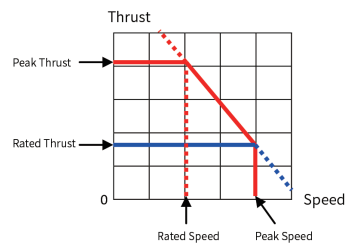
Coil Item No.	Continue Force (n)	Peak Force (n)	Load (1G)	Rated Current (A)	Peak Current (A)	Force Constant (n/arms)	Resistance (Ω)	Inductance (mh)	Weight (kg)	Polar Distance (mm)	Rated Speed (m/s)	Maximum Speed (m/s)	Mutual Attraction (N)
LC125-C1	400	1200	80	6.2	18.6	63	2.5	13.5	2.2	24	2.6	4.1	2000
LC125-C2	800	2400	160	6.2	18.6	129	5.1	27.6	4.2	24	1.5	2	4000

Pin no.	Signal	Wire no.
1	Phase U	1
2	Phase V	2
3	Phase W	3
4	FG	Yellow Green

◎ Note 1
Specification of motor cable
Outer diameter (mm): $\phi 6.5\text{mm}$
Occasional flexing: $7.5 \times \text{outer diameter}$
Fixed installation: $4 \times \text{outer diameter}$



Public Terminal:
HX42001-31PT
Male terminal housing:
HX42000-4R
Mother Terminal:
HX42000-31RT
Mother terminal housing:
HX42001-4P



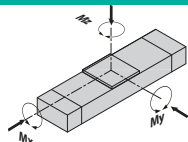
Definition diagram of thrust speed curve

Code

Code	GLC 50	C1	500	MS10	LD	3L	P3
	Item NO.	Rotor Specification	Stroke	Grating Ruler Specification	Servo Driver	Wire Length	Photoelectric Sensor
	GLC 50 Single Carriage	C1 Standard Rotor	Single Carriage 50-1650 , Gap50	MS10 Incremental type magnetic grating 1μm resolution	Limon	(No Wire)	P1: 1PC
	GLC 50D2 Double Carriage		Double Carriage 120-1520 Gap100	MS10A Absolute type magnetic grating 1μm resolution	Servotronix	3L:3m	P2: 2PCS
				GS05 Incremental type optical grating 0.5μm resolution	Panasonic	5L:5m	P3: 3PCS
				GS05A Absolute type optical grating 0.5μm resolution	Mitsubishi	8L:8m	No Mark:No Sensor
				DS10 Encoder 1μm resolution	(No Servo Driver)		



Max Static Forces And Torques



Type	GLC 50
■M(x)(N·m)	104
■M(y)(N·m)	103
■M(z)(N·m)	103

·除了满足最大负载和力矩外，还必须满足以下公式：
All forces and torques relate to the following:
$$\frac{M_x}{M_{x\max.}} + \frac{M_y}{M_{y\max.}} + \frac{M_z}{M_{z\max.}} \leq 1$$

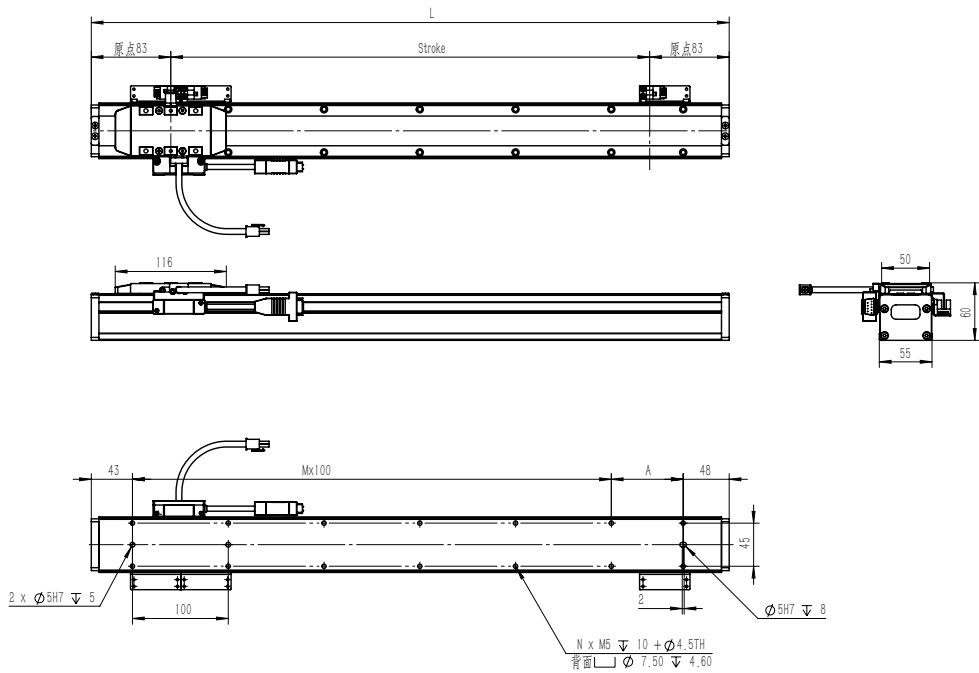
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronix	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

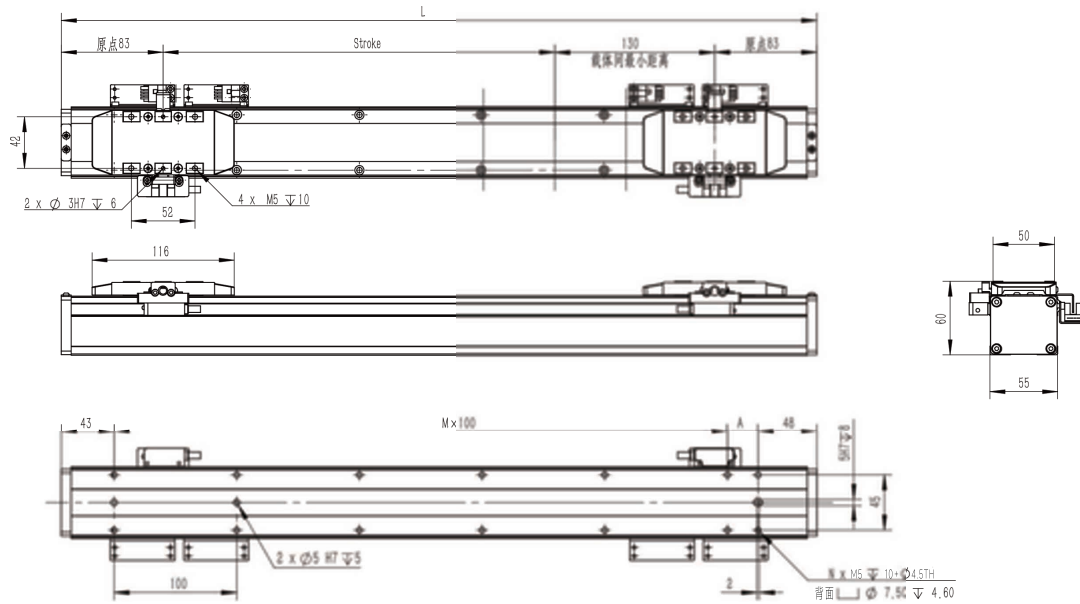
Technical Parameters	Type	GLC-50	GLC-50D2
	Driving Method	Linear Motor Driven Type With Iron Core	
	(μ) Repetitive Accuracy	±2μm	
	Strength	X-X	20μm/300mm
		Y-Y	20μm/300mm
	Max load (Under 1G acceleration condition)	5 kg	
	(MM/S) Max Speed	4 m/s	
Technical Parameters	(M/S²) Max Accelerated Speed	4G	
	Peak Current	3.4Arms	
	Continuous Current	1.1Arms	
	Peak Thrust	150 N	
	Continuous Thrust(N)	50 N	
	Interphase Resistance	24.6Ω	
	Interphase Inductance	70.2 mH	
Basic Specification	Maagnetic Pole Distance	20mm	
	Standard Stroke (mm)	50-1650 mm / 50 pitch	120-1520 mm / 100 pitch
	Max Outline of Main Engine's Cross Section	55×60	
	Home Sensor	PM-Y45(NPN)	

GLC50-C1



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
Length (L)	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916	966	1016	1066	1116	1166	1216	1266	1316	1366	1416	1466	1516	1566	1616	1666	1716	1766	1816
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38
A	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25	75	25
Weight (kg)	1.68	1.93	2.18	2.43	2.68	2.93	3.18	3.43	3.68	3.93	4.18	4.43	4.68	4.93	5.18	5.43	5.68	5.93	6.18	6.43	6.68	6.93	7.18	7.43	7.68	7.93	8.18	8.43	8.68	8.93	9.18	9.43	9.68

GLC50D2-C1



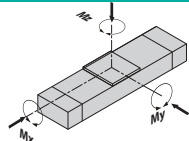
Stroke (mm)	120	220	320	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520
Length (L)	416	516	616	716	816	916	1016	1116	1216	1316	1416	1516	1616	1716	1816
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
A	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Weight (kg)	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7	7.2	7.7	8.2	8.7	9.2	9.7	10.2

Code

Code	GLC 80	C1	500	MS10	LD	3L	P3
	Item NO.	Rotor Specification	Stroke	Grating Ruler Specification	Servo Driver	Wire Length	Photoelectric Sensor
	Single Carriage	Standard Rotor	Single Carriage 50-1650 Gap50	Incremental type magnetic grating 1μm resolution	LD: Limon	0L: (No Wire)	P1: 1PC
	Double Carriage		Double Carriage 100-1500 Gap100	MS10A Absolute type magnetic grating 1μm resolution	Servotronix	3L:3m	P2: 2PCS
				GS05 Incremental type optical grating 0.5μm resolution	Panasonic	5L:5m	P3: 3PCS
				GS05A Absolute type optical grating 0.5μm resolution	Mitsubishi	8L:8m	No Mark/No Sensor
				DS10 Encoder 1μm resolution	(No Servo Driver)		



Max Static Forces And Torques



Type	GLC 80
■M(x)(N·m)	626
■M(y)(N·m)	318
■M(z) (N·m)	318

All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

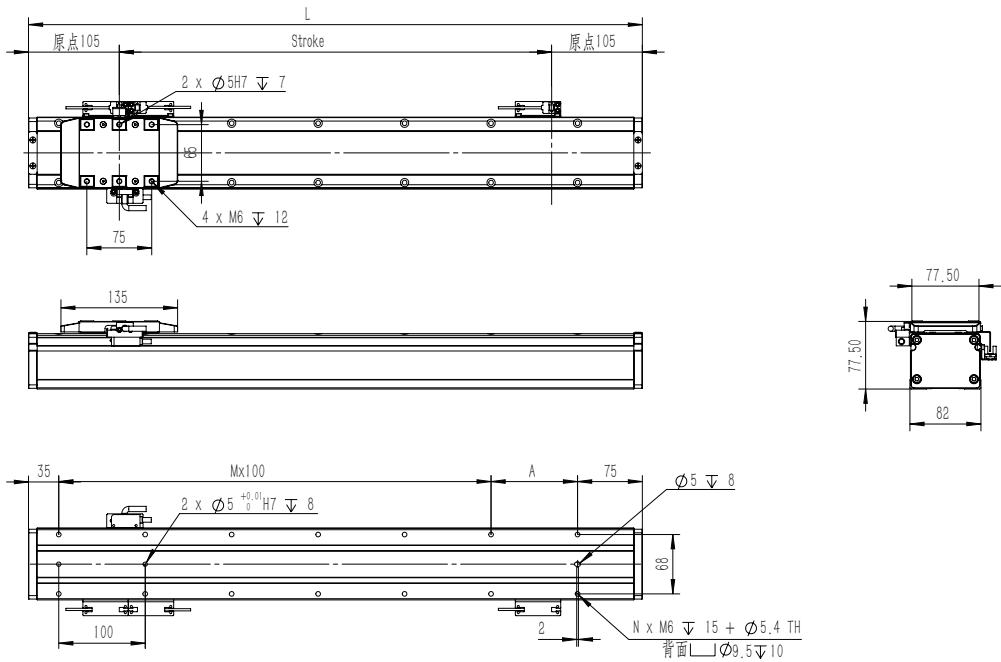
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronix	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

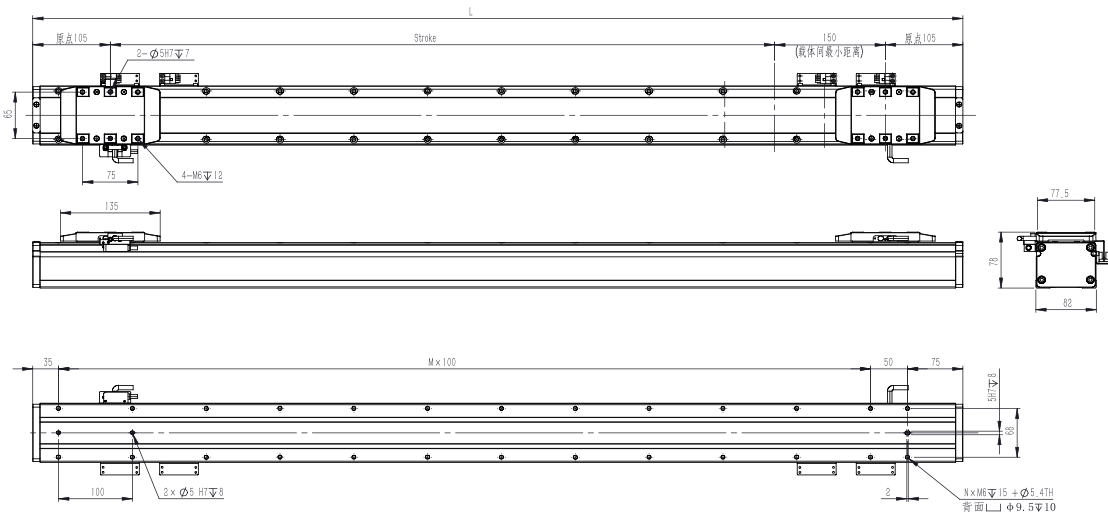
Technical Parameters	Type	GLC-80	GLC-80D2
	Driving Method	Linear Motor Driven Type With Iron Core	
	(μ) Repetitive Accuracy	±2μm	
	Strength	X-X	20μm/300mm
		Y-Y	20μm/300mm
	Max load (Under 1G acceleration condition)	20 kg	
Technical Parameters	(MM/S) Max Speed	4 m/s	
	(M/S²) Max Accelerated Speed	4G	
	Peak Current	9Arms	
	Continuous Current	2.4Arms	
	Peak Thrust	257 N	
	Continuous Thrust(N)	82 N	
Basic Specification	Interphase Resistance	3.1Ω	
	Interphase Inductance	15.5 mH	
	Maagnetic Pole Distance	24mm	
	Standard Stroke (mm)	50-1650 mm / 50 pitch	100-1500 mm / 100pitch
	Max Outline of Main Engine's Cross Section	82×77.5	
	Home Sensor	PM-Y45(NPN)	

GLC80-C1



Stroke (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
Length (L)	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17
N	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38
A	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50
Weight (kg)	3.39	3.83	4.27	4.71	5.15	5.59	6.03	6.47	6.91	7.35	7.79	8.23	8.67	9.11	9.55	9.99	10.43	10.87	11.31	11.75	12.19	12.63	13.07	13.51	13.95	14.39	14.83	15.27	15.71	16.15	16.59	17.03	17.47

GLC80D2-C1

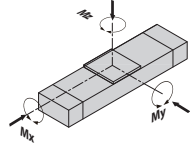


Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
Length (L)	460	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Weight (kg)	6.48	7.36	8.24	9.12	10	10.88	11.76	12.64	13.52	14.4	15.28	16.16	17.04	17.92	18.8

Code

Code	RLO 125	C1	500	MS10	LD	3L	P3
Item NO.	RLO125 Single Carriage	Rotor Specification	Stroke 100-4500, Gap100	Grating Ruler Specification	Servo Driver	Wire Length	Photoelectric Sensor
	RLO125D2 Double Carriage	C1 Standard Rotor		MS10 Incremental type magnetic grating 1μm resolution	LD Limon	0L: (No Wire)	P1: 1PC
		C2 Standard Rotor		MS10A Absolute type magnetic grating 1μm resolution	SE Servotronics	3L:3m	P2:2PCS
				GS05 Incremental type optical grating 0.5μm resolution	PA Panasonic	5L:5m	P3: 3PCS
				GS05A Absolute type optical grating 0.5μm resolution	MI Mitsubishi	8L:8m	No Mark.No Sensor
				DS10 Encoder 1μm resolution	N (No Servo Driver)		

Max Static Forces And Torques



Type	RLO125-C1	RLO125-C2
■ F(y)(N)	4295	5580
■ F(z)(N)	4295	5580
■ M(x)(N·m)	112	112
■ M(y)(N·m)	83	145
■ M(z)(N·m)	276	465

All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

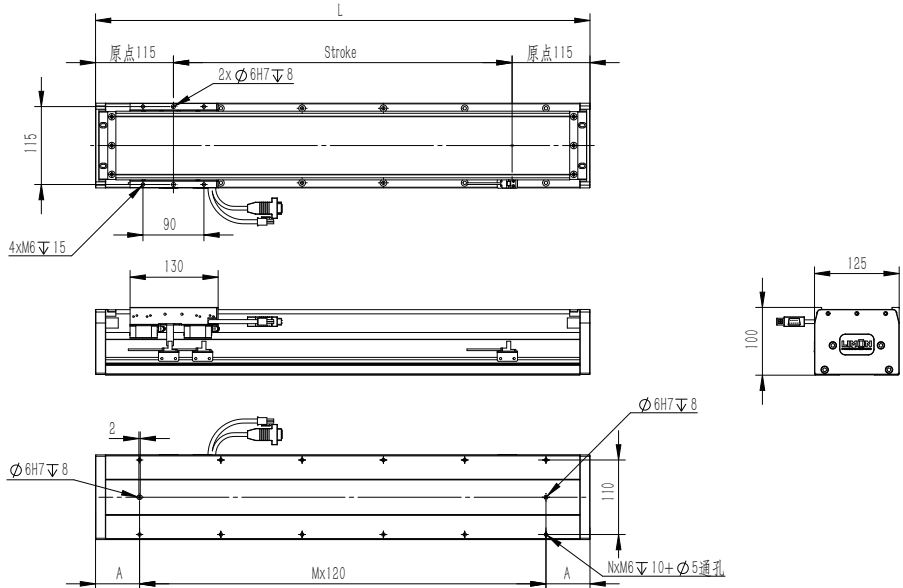
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronics	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

Technical Parameters	Type		RLO125-C1	RLO125D2-C1	RLO125-C2	RLO125D2-C2
	Driving Method		Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy		±2μm			
	Strength	X-X	20μm/300mm			
		Y-Y	20μm/300mm			
	Max load (Under 1G acceleration condition)		25 kg		50kg	
	(MM/S) Max Speed		4 m/s			
(M/S²) Max Accelerated Speed		4G				
Technical Parameters	Peak Current		9.1 Arms			
	Continuous Current		3.6 Arms			
	Peak Thrust		300 N		600 N	
	Continuous Thrust(N)		120 N		240 N	
	Interphase Resistance		3.6Ω		6.9 Ω	
	Interphase Inductance		19.4 mH		38.7 mH	
	Maagnetic Pole Distance		24mm			
Basic Specification	Standard Stroke (mm)		100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section		110*96			
	Home Sensor		PM-Y45(NPN)			

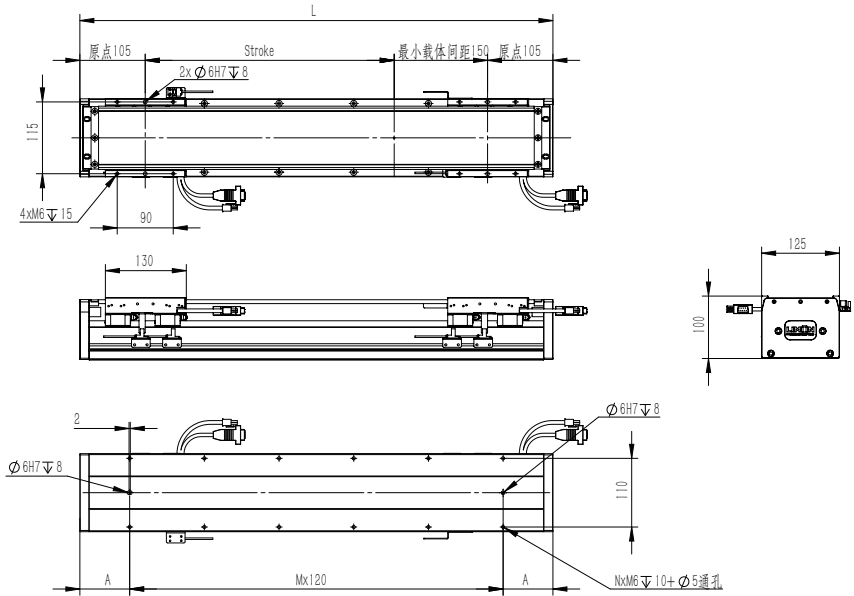
RLO125-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	7.8	9.4	11.0	12.6	14.2	15.8	17.4	19.0	20.5	22.4	24.0	25.6	27.2	28.8	30.4	32.0	33.5	35.1	36.7	38.3	39.9	41.8	43.3

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730
M	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
Weight (kg)	44.9	46.5	48.1	49.7	51.3	52.9	54.5	56.1	57.7	59.3	61.1	62.7	64.3	65.9	67.5	69.1	70.7	72.3	73.8	75.4	77.0	78.6

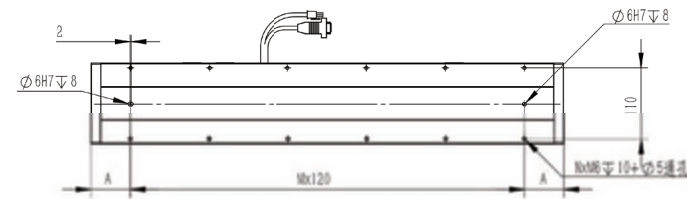
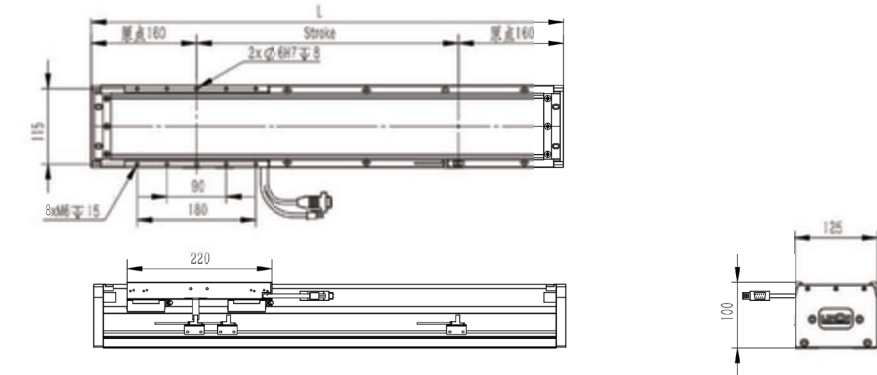
RLO125D2-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	460	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660
M	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21
N	8	10	12	12	14	16	18	20	22	22	24	26	28	30	32	32	34	36	38	40	42	42	44
A	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70
Weight (kg)	12.0	13.9	15.5	17.1	18.6	20.2	21.8	23.4	25.0	26.6	28.2	29.8	31.4	33.2	34.8	36.4	38.0	39.6	41.2	42.8	44.4	46.0	47.5

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2760	2860	2960	3060	3160	3260	3360	3460	3560	3660	3760	3860	3960	4060	4160	4260	4360	4460	4560	4660	4760	4860
M	22	23	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35	36	37	38	39	40
N	46	48	50	52	52	54	56	58	60	62	62	64	66	68	70	72	72	74	76	78	80	82
A	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30
Weight (kg)	49.1	50.7	52.6	54.2	55.8	57.4	58.9	60.5	62.1	63.7	65.3	66.9	68.5	70.1	71.9	73.5	75.1	76.7	78.3	79.9	81.5	83.1

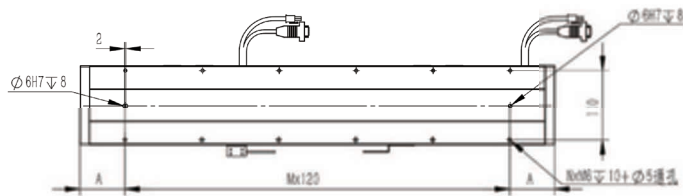
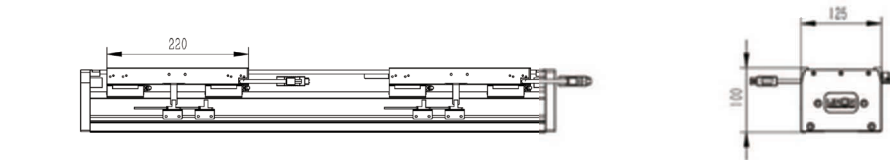
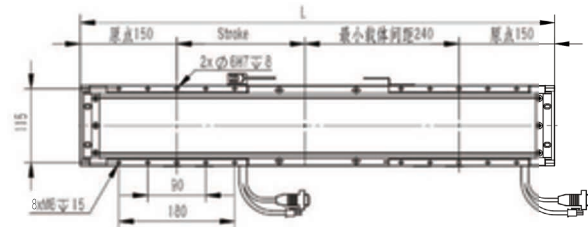
RLO125-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50
Weight (kg)	10.6	12.2	13.8	15.4	17.0	18.6	20.2	21.8	23.4	25.0	26.5	28.4	30.0	31.6	33.2	34.8	36.4	37.9	39.5	41.1	42.7	44.3	45.9

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720	4820
M	22	23	23	24	25	26	27	28	28	29	30	31	32	32	33	34	35	36	37	38	38	39
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80
A	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70
Weight (kg)	47.8	49.4	50.9	52.5	54.1	55.7	57.3	58.9	60.5	62.1	63.7	65.3	67.1	68.7	70.3	71.9	73.5	75.1	76.7	78.3	79.8	81.4

RL0125D2-C2

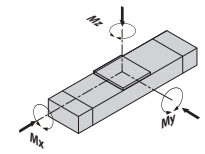


Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840
M	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23
N	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	42	44	46	48	48
A	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40
Weight (kg)	17.6	19.2	20.8	22.4	24.3	25.9	27.5	29.0	30.6	32.2	33.8	35.4	37.0	38.6	40.2	41.8	43.6	45.2	46.8	48.4	50.0	51.6	53.2

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2940	3040	3140	3240	3340	3440	3540	3640	3740	3840	3940	4040	4140	4240	4340	4440	4540	4640	4740	4840	4940	5040
M	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41
N	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60
Weight (kg)	54.8	56.4	57.9	59.5	61.1	63.0	64.6	66.2	67.8	69.4	70.9	72.5	74.1	75.7	77.3	78.9	80.5	82.3	83.9	85.5	87.1	88.7

Code

Code	RLO 150	C1	500	MS10	LD	3L	P3
Item NO.	RLO150 Single Carriage RLO150D2 Double Carriage	Rotor Specification C1: Standard Rotor C2: Standard Rotor	Stroke 100-4500, Gap100	Grating Ruler Specification MS10 Incremental type magnetic grating 1μm resolution MS10A Absolute type magnetic grating 1μm resolution GS05 Incremental type optical grating 0.5μm resolution GS05A Absolute type optical grating 0.5μm resolution DS10 Encoder 1μm resolution	Servo Driver LD: Limon SE Servotronics PA Panasonic MI: Mitsubishi N: (No Servo Driver)	Wire Length 0L: (No Wire) 3L:3m 5L:5m 8L:8m	Photoelectric Sensor P1: 1PC P2:2PCS P3: 3PCS No Mark/No Sensor



Type	RLO150-C1	RLO150-C2
■ $F(y)_{(N)}$	5370	6980
■ $F(z)_{(N)}$	5370	6980
■ $M(x)_{(N-m)}$	142	142
■ $M(y)_{(N-m)}$	104	180
■ $M(z)_{(N-m)}$	346	582

All forces and torques relate to the following:

$$\frac{M_x}{M_{x \max.}} + \frac{M_y}{M_{y \max.}} + \frac{M_z}{M_{z \max.}} \leq 1$$

Max Static Forces And Torques

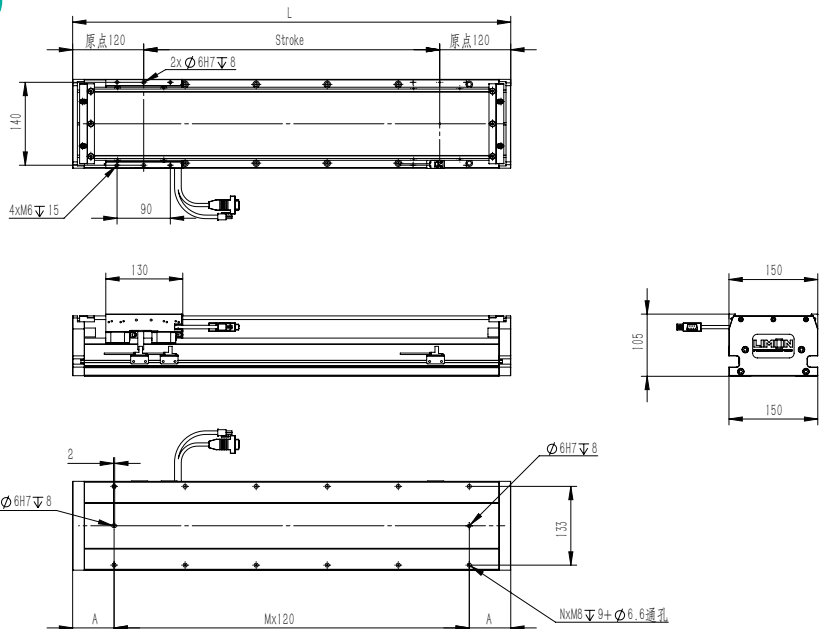
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronics	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

Technical Parameters	Type		RLO150-C1	RLO150D2-C1	RLO150-C2	RLO150D2-C2
	Driving Method		Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy		±2μm			
	Strength	X-X	20μm/300mm			
		Y-Y	20μm/300mm			
	Max load (Under 1G acceleration condition)		40 kg		80kg	
	(MM/S) Max Speed		4 m/s			
	(M/S²) Max Accelerated Speed		4G			
Technical Parameters	Peak Current		9.1 Arms		18.2 Arms	
	Continuous Current		3.6 Arms		7.2 Arms	
	Peak Thrust		550 N		1100 N	
	Continuous Thrust(N)		220 N		440 N	
	Interphase Resistance		5.4Ω		2.8Ω	
	Interphase Inductance		30 mH		16.1 mH	
	Maagnetic Pole Distance		24mm			
Basic Specification	Standard Stroke (mm)		100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section		135°96			
	Home Sensor		PM-Y45(NPN)			

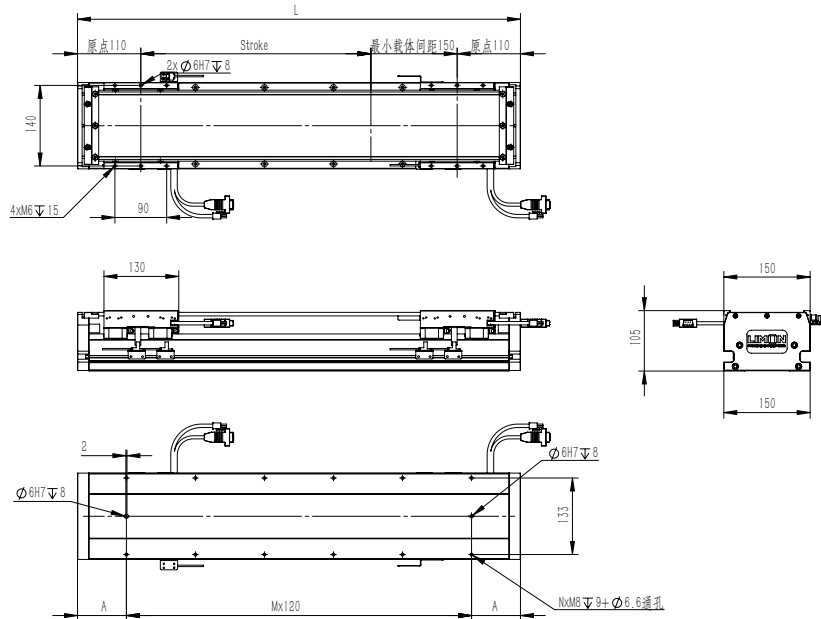
RLO150-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	340	440	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70
Weight (kg)	8.9	10.6	12.3	14.0	15.6	17.3	19.0	20.7	22.4	24.3	26.0	27.7	29.4	31.1	32.8	34.5	36.1	37.8	39.5	41.2	42.9	44.8	46.5

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2640	2740	2840	2940	3040	3140	3240	3340	3440	3540	3640	3740	3840	3940	4040	4140	4240	4340	4440	4540	4640	4740
M	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78
A	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90
Weight (kg)	48.2	49.9	51.6	53.3	55.0	56.6	58.3	60.0	61.7	63.4	65.4	67.0	68.7	70.4	72.1	73.8	75.5	77.2	78.8	80.5	82.2	83.9

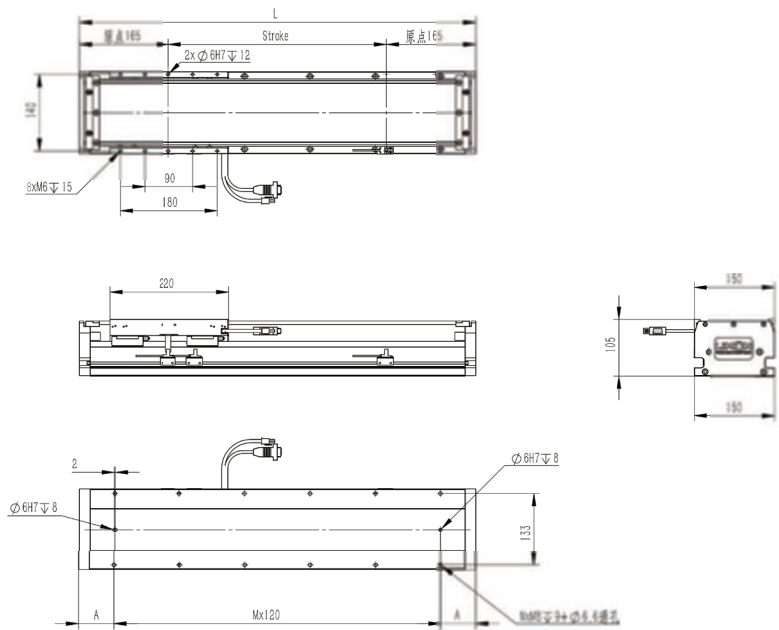
RLO150D2-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	470	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470	2570	2670
M	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21
N	8	10	12	12	14	16	18	20	22	22	24	26	28	30	32	32	34	36	38	40	42	42	44
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
Weight (kg)	13.6	15.5	17.2	18.9	20.6	22.3	23.9	25.6	27.3	29.0	30.7	32.4	34.1	36.0	37.7	39.4	41.1	42.8	44.5	46.1	47.8	49.5	51.2

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370	4470	4570	4670	4770	4870
M	22	23	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35	36	37	38	39	40
N	46	48	50	52	52	54	56	58	60	62	62	64	66	68	70	72	72	74	76	78	80	82
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
Weight (kg)	52.9	54.6	56.5	58.2	59.9	61.6	63.3	65.0	66.6	68.3	70.0	71.7	73.4	75.1	77.0	78.7	80.4	82.1	83.8	85.5	87.2	88.8

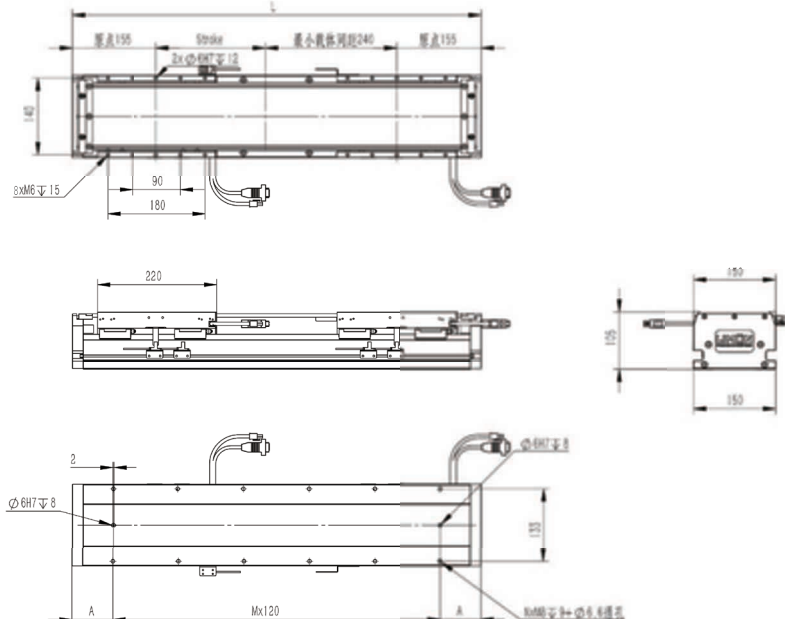
RLO150-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55
Weight (kg)	12.0	13.7	15.4	17.1	18.8	20.5	22.1	23.8	25.5	27.2	28.9	30.8	32.5	34.2	35.9	37.6	39.3	41.0	42.7	44.3	46.0	47.7	49.4

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730	4830
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	70	72	74	76	78	78	80	80
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
Weight (kg)	51.3	53.0	54.7	56.4	58.1	59.8	61.5	63.2	64.8	66.5	68.2	69.9	71.9	73.5	75.2	76.9	78.6	80.3	82.0	83.7	85.4	87.0

RLO150D2-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850
M	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23
N	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48
A	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45
Weight (kg)	19.8	21.5	23.2	24.9	26.8	28.5	30.2	31.9	33.6	35.3	37.0	38.7	40.3	42.0	43.7	45.4	47.3	49.0	50.7	52.4	54.1	55.8	57.5

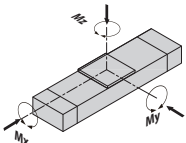
Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050
M	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41
N	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	59.2	60.8	62.5	64.2	65.9	67.8	69.5	71.2	72.9	74.6	76.3	78.0	79.7	81.3	83.0	84.7	86.4	88.4	90.0	91.7	93.4	95.1

Code

Code	RLO 175	C1	500	MS10	LD	3L	P3
	Item NO.	Rotor Specification	Stroke	Grating Ruler Specification	Servo Driver	Wire Length	Photoelectric Sensor
	RLO150 Single Carriage	C1: Standard Rotor	100-4500, Gap100	MS10 Incremental type magnetic grating 1μm resolution	LD: Limon	0L: (No Wire)	P1: 1PC
	RLO150D2 Double Carriage	C2: Standard Rotor		MS10A Absolute type magnetic grating 1μm resolution	SE: Servotronics	3L:3m	P2: 2PCS
				GS05 Incremental type optical grating 0.5μm resolution	PA: Panasonic	5L:5m	P3: 3PCS
				GS05A Absolute type optical grating 0.5μm resolution	MI: Mitsubishi	8L:8m	No Mark.No Sensor
				DS10 Encoder 1μm resolution	N: (No Servo Driver)		



Max Static Forces And Torques



Type	4P
■ F(y)(N)	7463
■ F(z)(N)	7463
■ M(x)(N·m)	339
■ M(y)(N·m)	178
■ M(z)(N·m)	742

All forces and torques relate to the following:
 $\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$

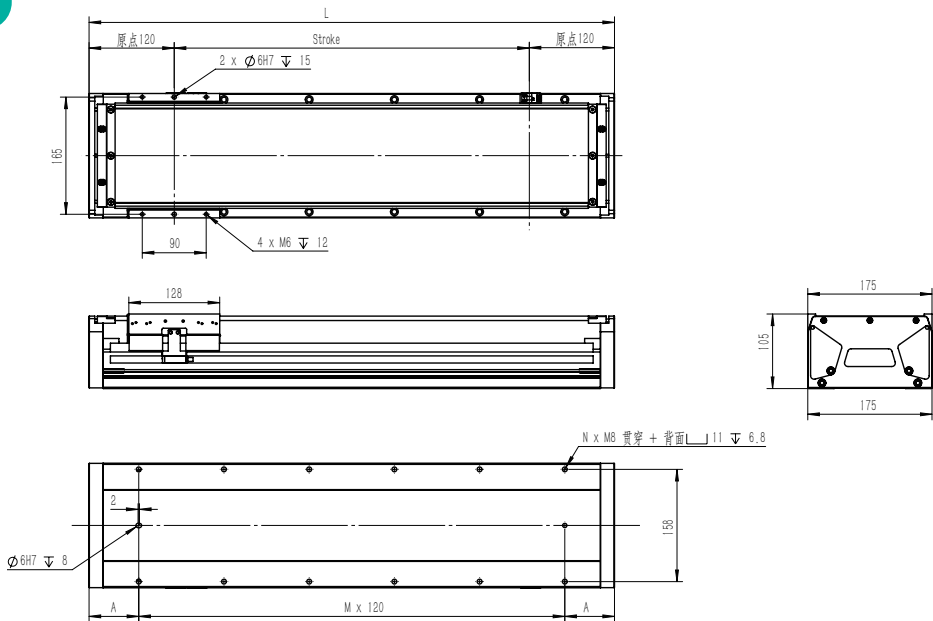
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronics	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

	Type	RLO175-C1	RLO175D2-C1	RLO175-C2	RLO175D2-C2
Technical Parameters	Driving Method	Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy	±2μm			
	Strength	X-X	20μm/300mm		
		Y-Y	20μm/300mm		
	Max load	40kg		80kg	
Technical Parameters	(MM/S) Max Speed	4 m/s			
	(M/S²) Max Accelerated Speed	3G		4G	
	(Peak Current)	9.1 Arms		18.2 Arms	
	(Continuous Current)	3.6 Arms		7.2 Arms	
	(Peak Thrust)	550 N		1100 N	
	Continuous Thrust(N)	220 N		440 N	
	(Interphase Resistance)	5.4Ω		2.8Ω	
	(Interphase Inductance)	30 mH		16.1 mH	
	EMF constant	27Vrms/m/s		54.1Vrms/m/s	
	Maagnetic Pole Distance	24mm			
Basic Specification	(mm) Standard Stroke	100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section	175*105mm			
	Home Sensor	PM-Y45(NPN)			

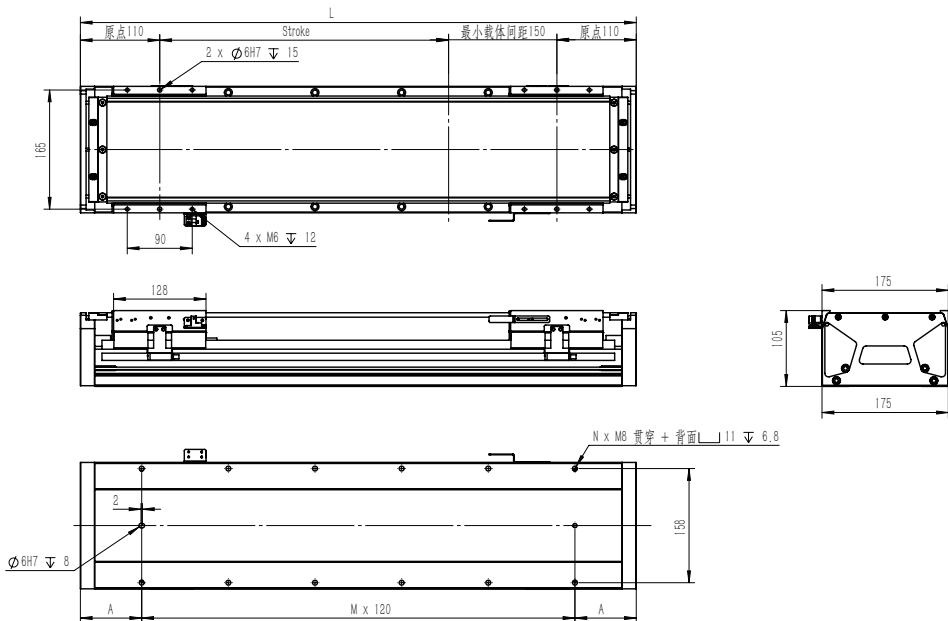
RLO175-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	340	440	540	640	740	840	940	1040	1140	1240	1340	1440	1540	1640	1740	1840	1940	2040	2140	2240	2340	2440	2540
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70
Weight (kg)	10.8	12.7	14.5	16.4	18.3	20.2	22.0	23.9	25.8	27.8	29.7	31.6	33.5	35.4	37.2	39.1	41.0	42.9	44.7	46.6	48.5	50.6	52.4

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2640	2740	2840	2940	3040	3140	3240	3340	3440	3540	3640	3740	3840	3940	4040	4140	4240	4340	4440	4540	4640	4740
M	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78
A	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90
Weight (kg)	54.3	56.2	58.1	59.9	61.8	63.7	65.6	67.4	69.3	71.2	73.3	75.1	77.0	78.9	80.8	82.6	84.5	86.4	88.3	90.1	92.0	93.9

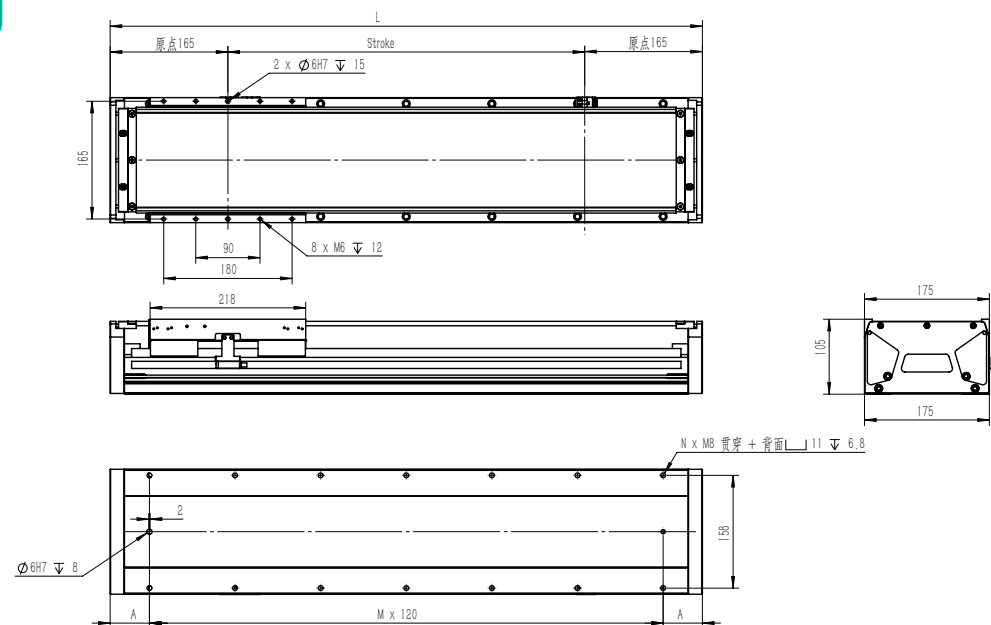
RLO175D2-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	470	570	670	770	870	970	1070	1170	1270	1370	1470	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470	2570	2670
M	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	20	21
N	8	10	12	12	14	16	18	20	22	22	24	26	28	30	32	32	34	36	38	40	42	42	44
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
Weight (kg)	16.4	18.5	20.3	22.2	24.1	26.0	27.8	29.7	31.6	33.5	35.3	37.2	39.1	41.2	43.0	44.9	46.8	48.7	50.5	52.4	54.3	56.2	58.1

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2770	2870	2970	3070	3170	3270	3370	3470	3570	3670	3770	3870	3970	4070	4170	4270	4370	4470	4570	4670	4770	4870
M	22	23	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35	36	37	38	39	40
N	46	48	50	52	52	54	56	58	60	62	62	64	66	68	70	72	72	74	76	78	80	82
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
Weight (kg)	59.9	61.8	63.9	65.8	67.6	69.5	71.4	73.3	75.1	77.0	78.9	80.8	82.6	84.5	86.6	88.5	90.3	92.2	94.1	96.0	97.8	99.7

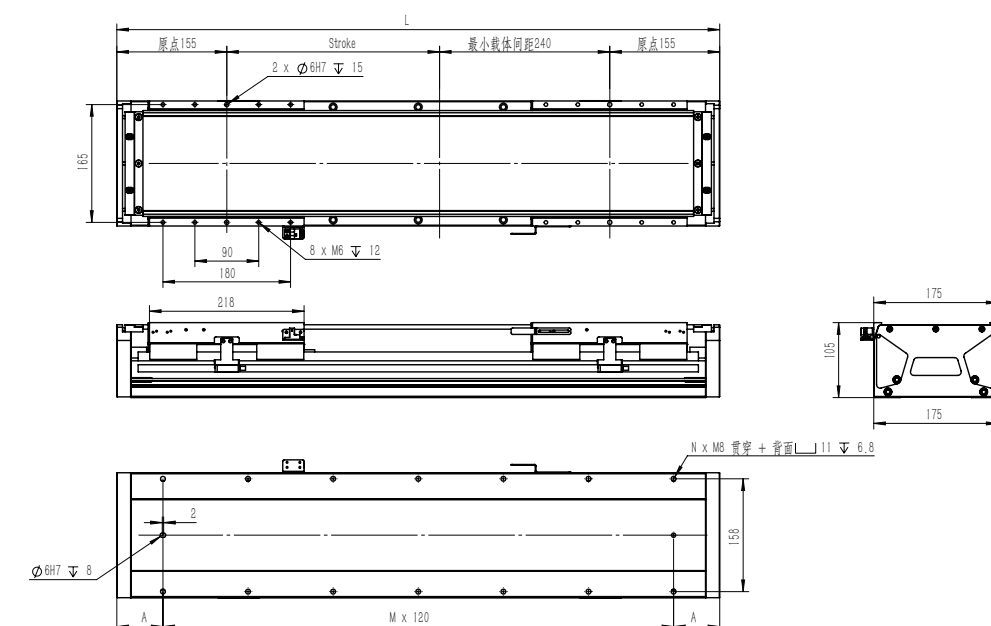
RLO175-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530	2630
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44	44
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55
Weight (kg)	14.9	16.8	18.7	20.6	22.4	24.3	26.2	28.1	29.9	31.8	33.7	35.8	37.6	39.5	41.4	43.4	45.1	47.0	48.9	50.8	52.7	54.5	56.4

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730	4830
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
Weight (kg)	58.5	60.4	62.2	64.1	66.0	67.9	69.7	71.6	73.5	75.4	77.2	79.1	81.2	83.1	84.9	86.8	88.7	90.6	92.4	94.3	96.2	98.1

RLO175D2-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850
M	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23
N	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48
A	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45
Weight (kg)	24.7	26.6	28.5	30.4	32.4	34.3	36.2	38.1	39.9	41.8	43.7	45.6	47.4	49.3	51.2	53.1	55.1	57.0	58.9	60.8	62.6	64.5	66.4

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050
M	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41
N	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	68.3	70.1	72.0	73.9	75.8	77.8	79.7	81.6	83.5	85.3	87.2	89.1	91.0	92.8	94.7	96.6	98.5	100.5	102.4	104.3	106.2	108.0

Code

Code	-	RLO 220	-	C1	-	500	-	MS10	-	LD	-	3L	-	P3
		Item NO.		Rotor Specification		Stroke		Grating Ruler Specification		Servo Driver		Wire Length		Photoelectric Sensor
		Single Carriage		Standard Rotor		100-4500, Gap100		MS10 Incremental type magnetic grating 1μm resolution		LD: Limon		0L: (No Wire)		P1: 1PC
		Double Carriage		Standard Rotor				MS10A Absolute type magnetic grating 1μm resolution		SE: Servotronics		3L:3m		P2: 2PCS
								GS05 Incremental type optical grating 0.5μm resolution		PA: Panasonic		5L:5m		P3: 3PCS
								GS05A Absolute type optical grating 0.5μm resolution		MI: Mitsubishi		8L:8m		No Mark:No Sensor
								DS10 Encoder 1μm resolution		N: (No Servo Driver)				



Max Static Forces And Torques

Type	RLO220-C1	RLO220-C2
■ F(y)(N)	8072	8072
■ F(z)(N)	8072	8072
■ M(x)(N·m)	406	406
■ M(y)(N·m)	215	420
■ M(z)(N·m)	420	600

All forces and torques relate to the following:

$$\frac{Mx}{Mx \max.} + \frac{My}{My \max.} + \frac{Mz}{Mz \max.} \leq 1$$

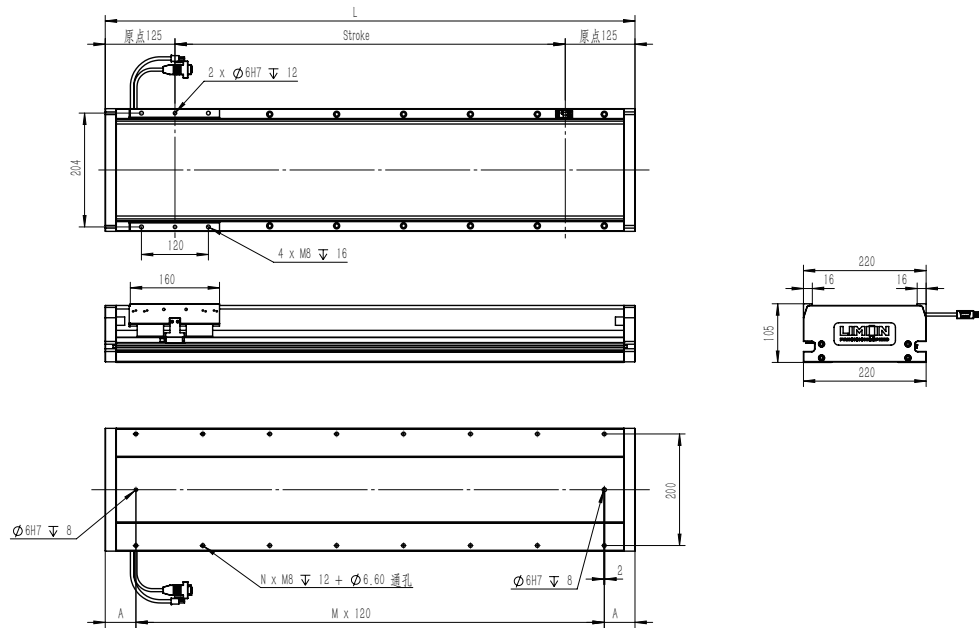
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronics	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

Technical Parameters	Type		RLO220-C1	RLO220D2-C1	RLO220-C2	RLO220D2-C2
	Driving Method		Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy		±2μm			
	Strength	X-X	20μm/300mm			
		Y-Y	20μm/300mm			
	Max load		60 kg		120 kg	
	(MM/S) Max Speed		4 m/s			
(M/S²) Max Accelerated Speed		4G				
Technical Parameters	(Peak Current)		9.6 Arms		19.2 Arms	
	(Continuous Current)		3.6 Arms		7.2 Arms	
	(Peak Thrust)		900 N		1800 N	
	(N) Continuous Thrust(N)		340 N		680 N	
	(Interphase Resistance)		7.5Ω		3.9 Ω	
	(Interphase Inductance)		42.3 mH		21.5 mH	
	Maagnetic Pole Distance)		24mm			
Basic Specification	(mm) Standard Stroke		100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section		220*105			
	Home Sensor		PM-Y45(NPN)			

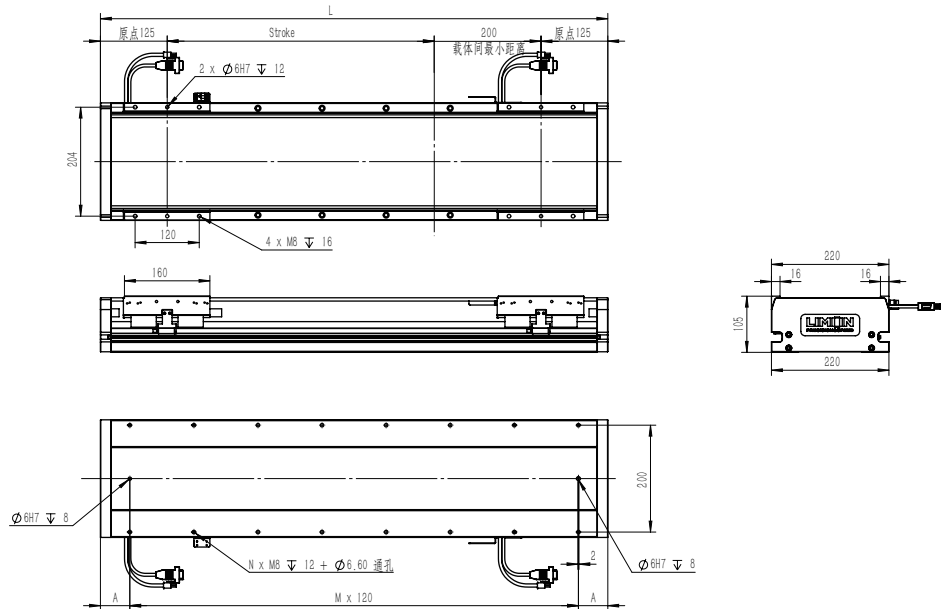
RLO220-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550
M	2	3	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20
N	6	8	10	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
Weight (kg)	14.3	16.7	19.2	21.6	24.1	26.5	29.0	31.7	34.1	36.6	39.0	41.5	43.9	46.3	48.8	51.2	53.7	56.1	58.6	61.3	63.7	66.2	68.6

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2650	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750
M	21	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39
N	44	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	72	74	76	78	80	80
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
Weight (kg)	71.1	73.5	76.0	78.4	80.9	83.3	85.8	88.2	90.9	93.4	95.8	98.2	100.7	103.1	105.6	108.0	110.5	112.9	115.4	117.8	120.5	123.0

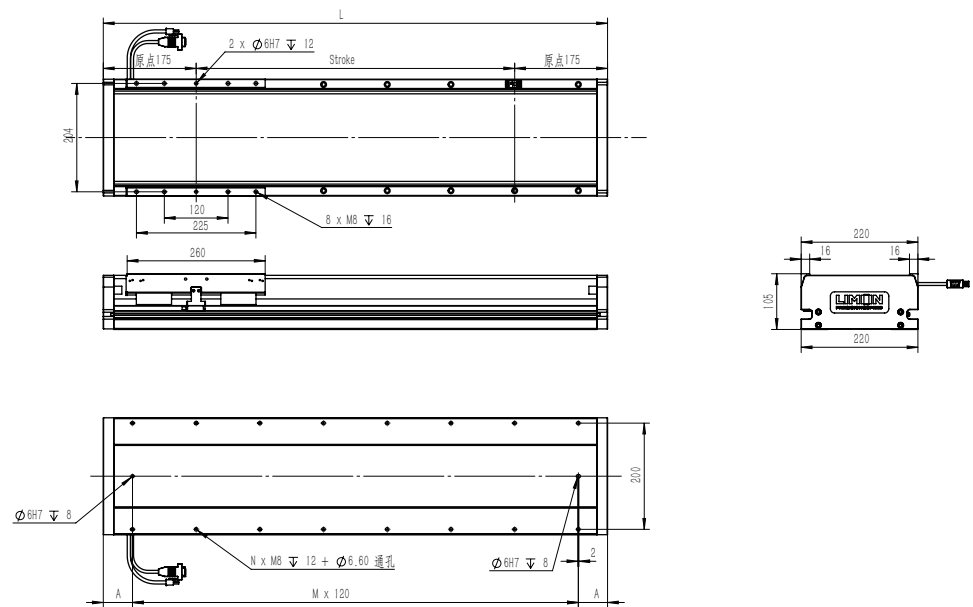
RLO220D2-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750
M	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22
N	10	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55
Weight (kg)	23.7	26.2	28.6	31.1	33.5	36.2	38.7	41.1	43.6	46.0	48.5	50.9	53.4	55.8	58.3	60.7	63.1	65.9	68.3	70.7	73.2	75.6	78.1

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950
M	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	40	40
N	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
Weight (kg)	80.5	83.0	85.4	87.9	90.3	92.8	95.5	97.9	100.4	102.8	105.3	107.7	110.2	112.6	115.0	117.5	119.9	122.4	125.1	127.5	130.0	132.4

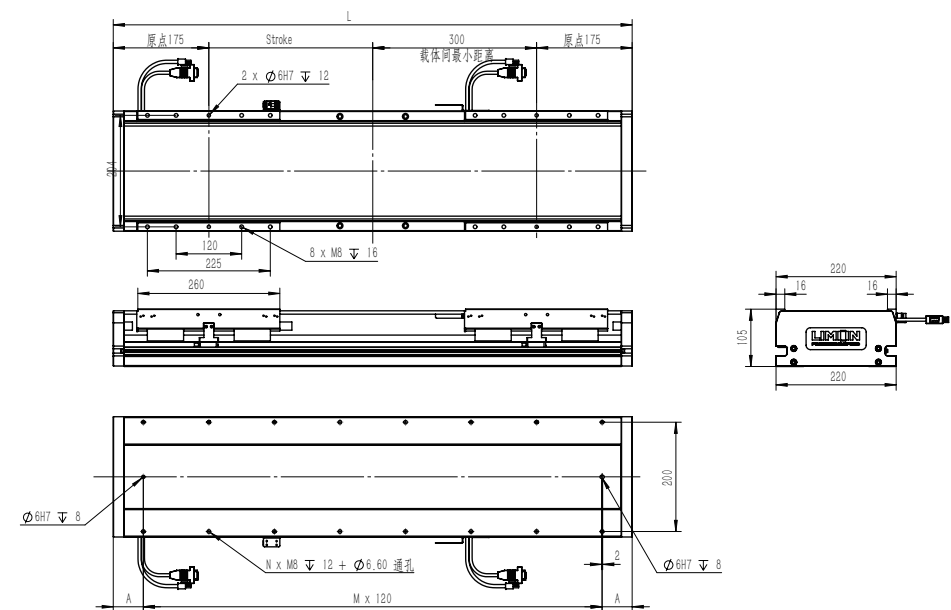
RLO220-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650
M	3	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21
N	8	10	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	19.9	22.3	24.8	27.2	29.7	32.1	34.8	37.3	39.7	42.2	44.6	47.1	49.5	52.0	54.4	56.9	59.3	61.8	64.5	66.9	69.4	71.8	74.2

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850
M	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39
N	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
Weight (kg)	76.7	79.1	81.6	84.0	86.5	88.9	91.4	94.1	96.5	99.0	101.4	103.9	106.3	108.8	111.2	113.7	116.1	118.5	121.0	123.7	126.1	128.6

RLO220D2-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
M	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23	24
N	12	14	16	18	20	20	22	24	26	28	30	32	34	36	38	40	40	42	44	46	48	50	
A	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
Weight (kg)	35.0	37.4	39.9	42.6	45.0	47.5	49.9	52.4	54.8	57.3	59.7	62.2	64.6	67.0	69.5	72.2	74.6	77.1	79.5	82.0	84.4	86.9	89.3

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050	5150
M	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41	42
N	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84	86
A	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55
Weight (kg)	91.8	94.2	96.7	99.1	101.8	104.3	106.7	109.2	111.6	114.0	116.5	118.9	121.4	123.8	126.3	128.7	131.4	133.9	136.3	138.8	141.2	143.7

All forces and torques relate to the following:

$$\frac{M_x}{M_{x \text{ max.}}} + \frac{M_y}{M_{y \text{ max.}}} + \frac{M_z}{M_{z \text{ max.}}} \leq 1$$

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronix	SE	CDHD-API	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

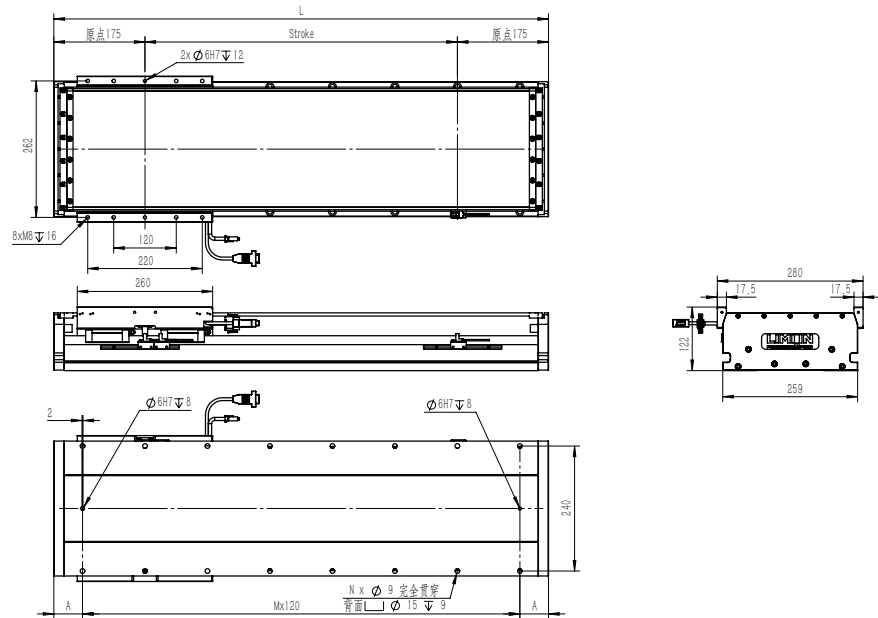
Technical Parameters	Type		RLO260-C1	RLO260D2-C1	RLO260-C2	RLO260D2-C2
	Driving Method		Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy		±2μm			
	Strength	X-X	20μm/300mm			
		Y-Y	20μm/300mm			
	Max load		25 kg		50kg	
	(MM/S) Max Speed		4 m/s			
(M/S²) Max Accelerated Speed		4G				
Technical Parameters	(Peak Current)		7.2 Arms		7.1Arms	
	(Continuous Current)		3.6 Arms		3.5 Arms	
	(Peak Thrust)		240 N		480 N	
	Continuous Thrust(N)		120 N		240 N	
	(Interphase Resistance)		3.6Ω		6.9 Ω	
	(Interphase Inductance)		19.4 mH		38.7 mH	
	(EMF constant)		51Vrms/m/s		105.2Vrms/m/s	
(Maagnetic Pole Distance)		24mm				
Basic Specification	(mm) Standard Stroke		100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section		110*96			
	Home Sensor		PM-Y45(NPN)			

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2650	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750
M	21	22	23	24	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		
N	44	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80
A	65	55	45	35	85	75	65	55	45	35	25	15	5	5	45	35	85	75	65	55	45	35
Weight (kg)	93.6	96.8	100.0	103.2	106.4	109.6	112.8	116.0	119.5	122.7	125.9	129.1	132.3	135.5	138.7	141.9	145.1	148.3	151.5	154.7	158.2	161.4

[illegible]

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950
M	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40
N	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75
Weight (kg)	106.5	109.7	112.9	116.1	119.3	122.5	126.1	129.2	132.4	135.6	138.8	142.0	145.2	148.4	151.6	154.8	158.0	161.2	164.8	168.0	171.2	174.4

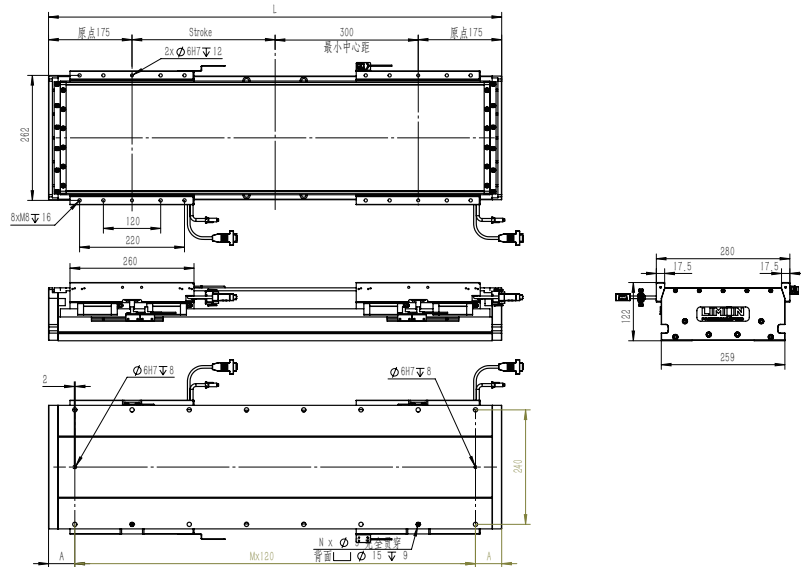
RLO260-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650
M	3	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21
N	8	10	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	27.5	30.6	33.9	37.1	40.2	43.5	47.0	50.2	53.4	56.6	59.8	63.0	66.2	69.4	72.6	75.8	79.0	82.2	85.7	88.9	92.1	95.3	98.5

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850
M	21	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39
N	44	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
Weight (kg)	101.7	104.9	108.1	111.3	114.5	117.7	120.9	124.5	127.6	130.8	134.1	137.2	140.4	143.7	146.8	150.0	153.3	156.4	159.6	163.2	166.4	169.6

RLO260D2-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
M	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23	24
N	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48	50
A	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
Weight (kg)	48.5	51.7	54.9	58.4	61.6	64.8	68.0	71.2	74.4	77.6	80.8	84.0	87.2	90.4	93.6	97.2	100.3	103.6	106.8	109.9	113.1	116.3	119.5

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050	5150
M	24	25	26	27	28	29	29	30	31	32	33	34	35	36	37	38	39	39	40	41	42	
N	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84	86
A	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55
Weight (kg)	122.7	125.9	129.1	132.3	135.9	139.1	142.3	145.5	148.7	151.9	155.1	158.2	161.5	164.7	167.8	171.0	174.6	177.8	181.0	184.2	187.4	190.6

Code

RLC 125

C1

500

MS10

LD

3L

P3

Item NO.

RLC125
Single Carriage
RLC125D2
Double Carriage

Rotor Specification

C1:
Standard Rotor
C2:
Extended Rotor

Stroke

100-4500,
Gap100

Grating Ruler Specification

MS10
Incremental type magnetic grating 1μm resolution
MS10A
Absolute type magnetic grating 1μm resolution
GS05
Incremental type optical grating 0.5μm resolution
GS05A
Absolute type optical grating 0.5μm resolution
DS10
Encoder 1μm resolution

Servo Driver

LD:
Limon
SE:
Servotronics
PA:
Panasonic
MI:
Mitsubishi
N:
(No Servo Driver)

Wire Length

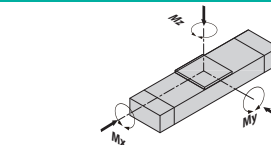
0L:
(No Wire)
3L:3m
5L:5m
8L:8m
.....

Photoelectric Sensor

P1: 1PC
P2: 2PCS
P3: 3PCS
No Mark:No Sensor



Max Static Forces And Torques



Type	RLC125-C1	RLC125-C2
■F(y)(N)	4295	5580
■F(z)(N)	4295	5580
■M(x)(N·m)	112	112
■M(y)(N·m)	83	145
■M(z)(N·m)	276	465

All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

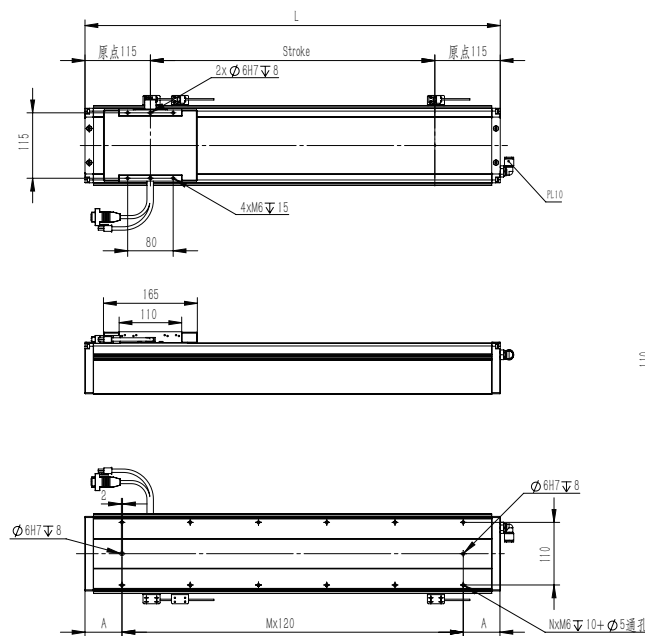
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronics	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

Technical Parameters	Type		RLC125-C1	RLC125D2-C1	RLC125-C2	RLC125D2-C2
	Driving Method		Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy		±2μm			
	Strength	X-X	20μm/300mm			
		Y-Y	20μm/300mm			
	Max load		25 kg		50kg	
	(MM/S) Max Speed		4 m/s			
(M/S²) Max Accelerated Speed		4G				
Technical Parameters	(Peak Current)		7.2 Arms		7.1Arms	
	(Continuous Current)		3.6 Arms		3.5 Arms	
	(Peak Thrust)		240 N		480 N	
	Continuous Thrust(N)		120 N		240 N	
	(Interphase Resistance)		3.6Ω		6.9 Ω	
	(Interphase Inductance)		19.4 mH		38.7 mH	
	(Maagnetic Pole Distance)		24mm			
Basic Specification	(mm) Standard Stroke		100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section		110*96			
	Home Sensor		PM-Y45(NPN)			

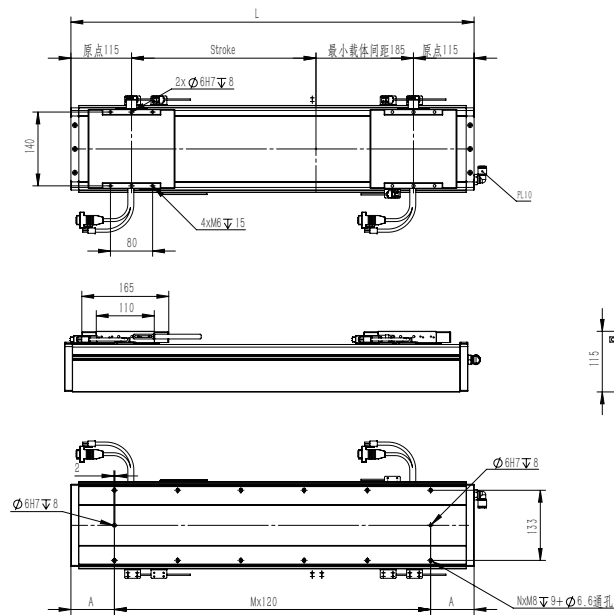
RLC125-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	8.4	10.2	12.0	13.8	15.6	17.4	19.2	20.9	22.7	24.8	26.6	28.4	30.2	31.9	33.7	35.5	37.3	39.1	40.9	42.7	44.5	46.5	48.3

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730
M	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
Weight (kg)	50.1	51.9	53.7	55.5	57.3	59.1	60.8	62.6	64.4	66.2	68.3	70.1	71.9	73.6	75.4	77.2	79.0	80.8	82.6	84.4	86.2	88.0

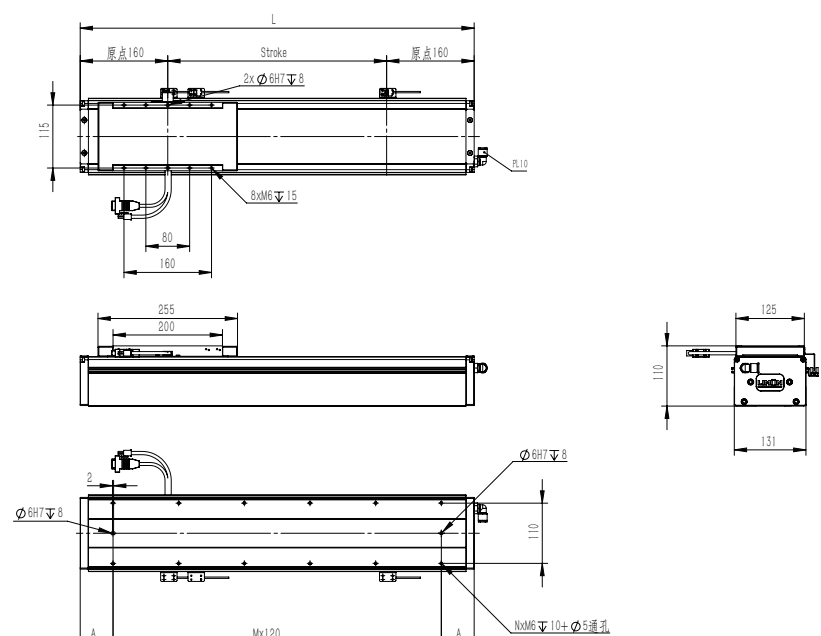
RLC125D2-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	515	615	715	815	915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215	2315	2415	2515	2615	2715
M	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21	22
N	8	10	12	14	16	18	18	20	22	24	26	28	30	32	34	36	38	38	40	42	44	46	46
A	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5
Weight (kg)	14.6	16.4	18.2	19.9	21.7	23.5	25.3	27.1	28.9	30.7	32.5	34.5	36.3	38.1	39.9	41.7	43.5	45.3	47.1	48.8	50.6	52.4	54.2

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2815	2915	3015	3115	3215	3315	3415	3515	3615	3715	3815	3915	4015	4115	4215	4315	4415	4515	4615	4715	4815	4915
M	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39	40
N	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80	82
A	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5
Weight (kg)	56.3	58.1	59.9	61.6	63.4	65.2	67.0	68.8	70.6	72.4	74.2	76.0	78.0	79.8	81.6	83.4	85.2	87.0	88.8	90.5	92.3	94.1

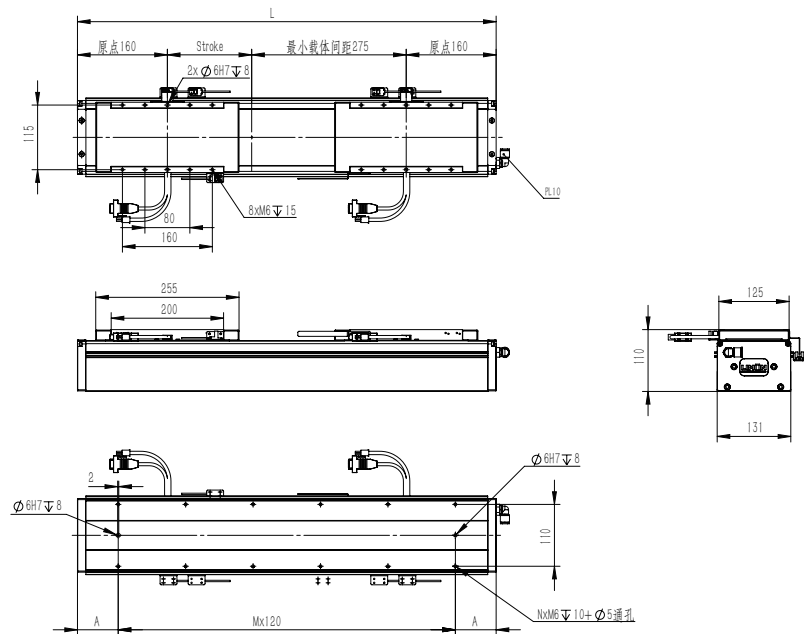
RLC125-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50
Weight (kg)	11.9	13.7	15.5	17.3	19.1	20.8	22.6	24.4	26.2	28.0	29.8	31.9	33.6	35.4	37.2	39.0	40.8	42.6	44.4	46.2	48.0	49.8	51.5

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720	4820
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80
A	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70
Weight (kg)	53.6	55.4	57.2	59.0	60.8	62.5	64.3	66.1	67.9	69.7	71.5	73.3	75.3	77.1	78.9	80.7	82.5	84.3	86.1	87.9	89.7	91.4

RLC125D2-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795	2895
M	5	6	7	7	8	8	9	10	11	12	12	13	14	15	16	17	17	18	19	20	21	22	23
N	12	14	16	16	18	20	22	24	26	26	28	30	32	34	36	36	38	40	42	44	46	46	48
A	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5
Weight (kg)	20.8	22.6	24.6	26.4	28.2	30.0	31.8	33.6	35.4	37.2	39.0	40.7	42.5	44.3	46.4	48.2	50.0	51.7	53.5	55.3	57.1	58.9	60.7

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2995	3095	3195	3295	3395	3495	3595	3695	3795	3895	3995	4095	4195	4295	4395	4495	4595	4695	4795	4895	4995	5095
M	24	25	26	27	27	28	29	30	31	32	32	33	34	35	36	37	37	38	39	40	41	42
N	50	52	54	56	56	58	60	62	64	66	66	68	70	72	74	76	78	80	82	84	86	86
A	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5	77.5	67.5	57.5	47.5	37.5	27.5
Weight (kg)	62.5	64.3	66.1	68.1	69.9	71.7	73.5	75.3	77.1	78.9	80.7	82.4	84.2	86.0	87.8	89.9	91.7	93.4	95.2	97.0	98.8	100.6

Code	-	RLC 150	-	C1	-	500	-	MS10	-	LD	-	3L	-	P3
Item NO.		RLC150 Single Carriage RLC150D2 Double Carriage		Rotor Specification C1: Standard Rotor C2: Standard Rotor		Stroke 100-4500, Gap100		Grating Ruler Specification MS10 Incremental type magnetic grating 1μm resolution MS10A Absolute type magnetic grating 1μm resolution GS05 Incremental type optical grating 0.5μm resolution GS05A Absolute type optical grating 0.5μm resolution DS10 Encoder 1μm resolution		Servo Driver LD: Limon SE: Servotronix PA: Panasonic MI: Mitsubishi N: (No Servo Driver)		Wire Length 0L: (No Wire) 3L:3m 5L:5m 8L:8m		Photoelectric Sensor P1: 1PC P2: 2PCS P3: 3PCS No Mark.No Sensor



Max Static Forces And Torques

Type	RLC150-C1	RLC150-C2
■F(y)(N)	5370	6980
■F(z)(N)	5370	6980
■M(x)(N·m)	142	142
■M(y)(N·m)	104	180
■M(z)(N·m)	346	582

All forces and torques relate to the following:

$$\frac{Mx}{Mx\ max.} + \frac{My}{My\ max.} + \frac{Mz}{Mz\ max.} \leq 1$$

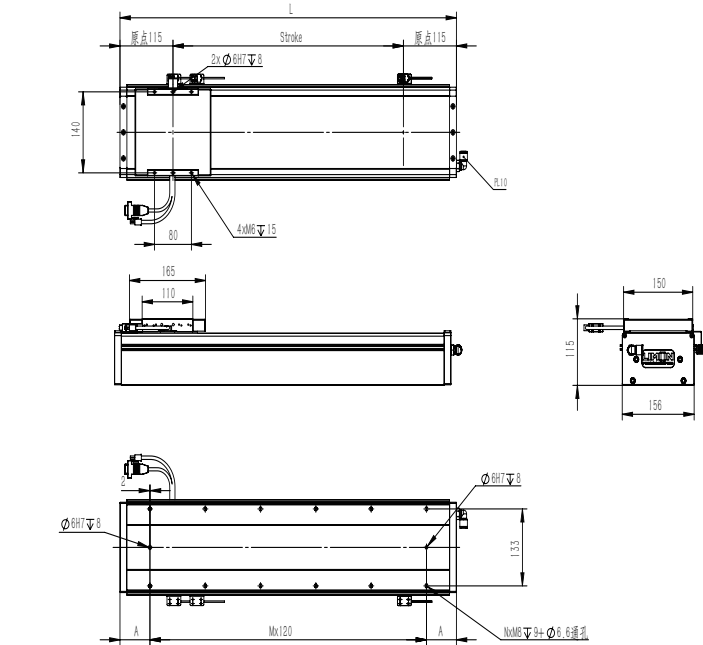
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronix	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

Technical Parameters	Type		RLC150-C1	RLC150D2-C1	RLC150-C2	RLC150D2-C2
	Driving Method		Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy		±2μm			
	Strength	X-X	20μm/300mm			
		Y-Y	20μm/300mm			
	Max load		40 kg		80kg	
	(MM/S) Max Speed		4 m/s			
(M/S²) Max Accelerated Speed		4G				
Technical Parameters	(Peak Current)		7.2 Arms		21.9Arms	
	(Continuous Current)		3.6 Arms		7.3 Arms	
	(Peak Thrust)		480 N		1200 N	
	Continuous Thrust(N)		240 N		480 N	
	(Interphase Resistance)		5.4Ω		2.8Ω	
	(Interphase Inductance)		30 mH		16.1 mH	
	(Maagnetic Pole Distance)		24mm			
Basic Specification	(mm) Standard Stroke		100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section		135*96			
	Home Sensor		PM-Y45(NPN)			

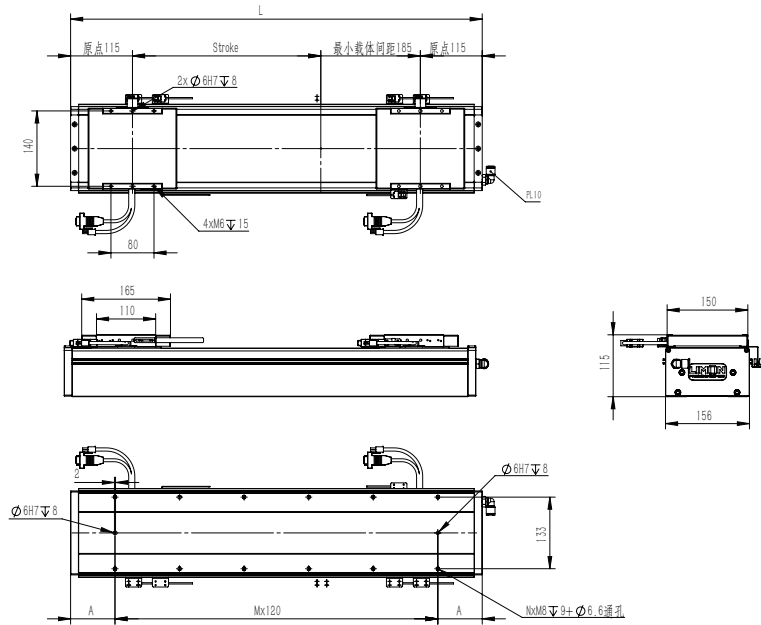
RLC150-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	9.9	11.8	13.7	15.6	17.5	19.4	21.2	23.1	25.0	27.2	29.0	30.9	32.8	34.7	36.6	38.5	40.4	42.2	44.1	46.0	47.9	50.1	51.9

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730
M	21	22	23	24	24	25	26	27	28	29	30	31	32	33	34	34	35	36	37	38	39	
N	44	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80
A	55	45	35	25	75	65	55	45	35	25	75	65	55	45	35	25	75	65	55	45	35	25
重量 Weight (kg)	53.8	55.7	57.6	59.5	61.4	63.3	65.1	67.0	68.9	70.8	72.9	74.8	76.7	78.6	80.5	82.4	84.3	86.1	88.0	89.9	91.8	93.7

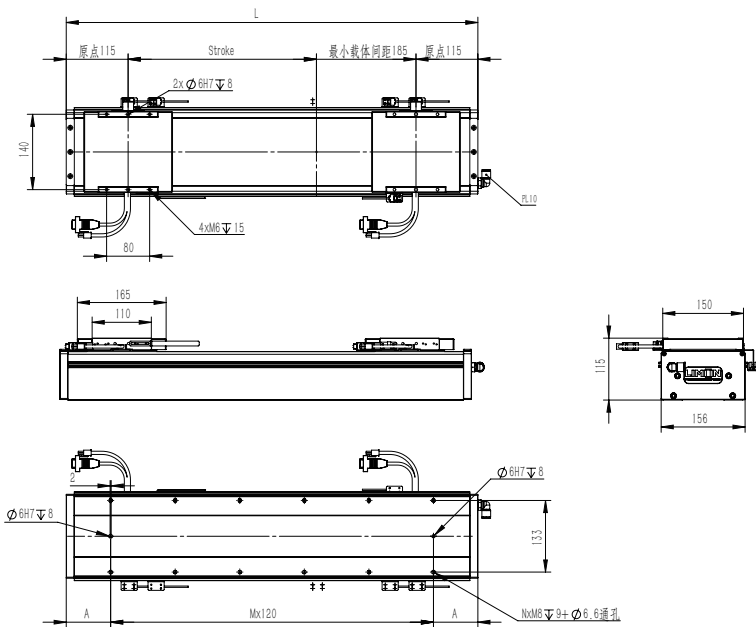
RLC150D2-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	515	615	715	815	915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215	2315	2415	2515	2615	2715
M	3	4	5	6	7	7	8	9	10	11	12	12	13	14	15	16	17	17	18	19	20	21	22
N	8	10	12	14	16	16	18	20	22	24	26	26	28	30	32	34	36	36	38	40	42	44	46
A	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5
Weight (kg)	16.8	18.7	20.6	22.5	24.3	26.2	28.1	30.0	31.9	33.8	35.7	37.8	39.7	41.6	43.5	45.3	47.2	49.1	51.0	52.9	54.8	56.7	58.5

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2815	2915	3015	3115	3215	3315	3415	3515	3615	3715	3815	3915	4015	4115	4215	4315	4415	4515	4615	4715	4815	4915
M	22	23	24	25	26	27	27	28	29	30	31	32	32	33	34	35	36	37	37	38	39	40
N	46	48	50	52	54	56	56	58	60	62	64	66	66	68	70	72	74	76	76	78	80	82
A	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5
Weight (kg)	60.7	62.6	64.5	66.4	68.2	70.1	72.0	73.9	75.8	77.7	79.6	81.4	83.6	85.5	87.4	89.2	91.1	93.0	94.9	96.8	98.7	100.6

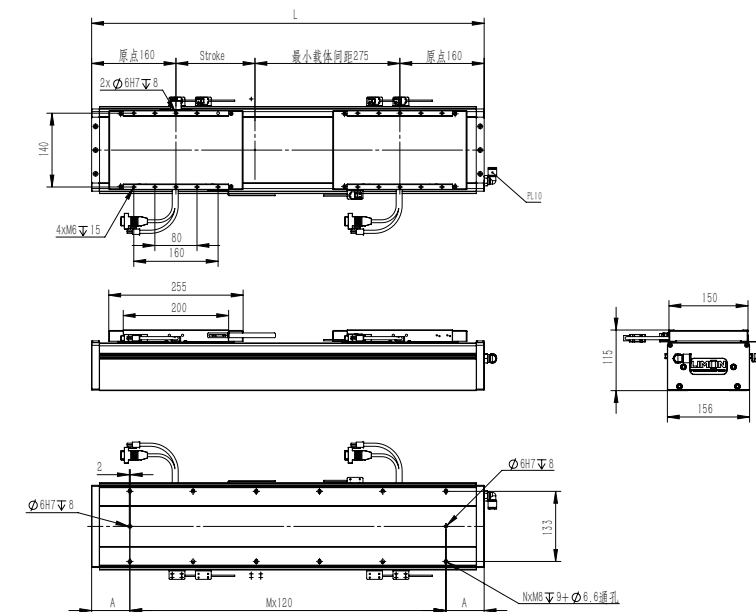
RLC150-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	9	10	11	12	13	13	14	15	16	17	18	19	20	21	22	23
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50
Weight (kg)	13.8	15.7	17.6	19.5	21.4	23.3	25.2	27.0	28.9	30.8	32.7	34.8	36.7	38.6	40.5	42.4	44.3	46.2	48.0	49.9	51.8	53.7	55.6

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720	4820
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80
A	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70
Weight (kg)	57.7	59.6	61.5	63.4	65.3	67.2	69.0	70.9	72.8	74.7	76.6	78.5	80.6	82.5	84.4	86.3	88.2	90.1	91.9	93.8	95.7	97.6

RLC150D2-C2



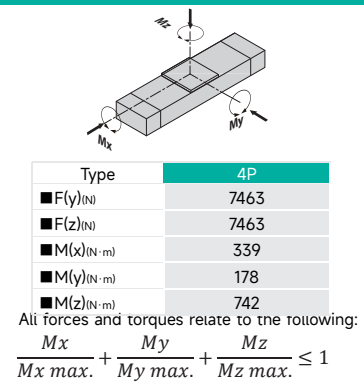
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795	2895
M	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23
N	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44	44	46	48
A	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5
Weight (kg)	23.7	25.5	27.5	29.3	31.1	32.9	34.7	36.5	38.2	40.0	41.8	43.6	45.4	47.2	49.2	51.0	52.8	54.6	56.4	58.1	59.9	61.7	63.5

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2995	3095	3195	3295	3395	3495	3595	3695	3795	3895	3995	4095	4195	4295	4395	4495	4595	4695	4795	4895	4995	5095
M	24	25	26	26	27	28	29	30	31	32	33	34	35	36	36	37	38	39	40	41	41	41
N	50	52	54	54	56	58	60	62	64	64	66	68	70	72	74	74	76	78	80	82	84	84
A	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5
Weight (kg)	65.3	67.1	68.9	70.9	72.7	74.5	76.3	78.1	79.8	81.6	83.4	85.2	87.0	88.8	90.6	92.6	94.4	96.2	98.0	99.8	101.5	103.3

Code	RLC 175	C1	500	MS10	LD	3L	P3
Item NO.	RLC150 Single Carriage RLC150D2 Double Carriage	Rotor Specification C1: Standard Rotor C2: Standard Rotor	Stroke 100-4500 /Gap100	Grating Ruler Specification MS10 Incremental type magnetic grating 1μm resolution MS10A Absolute type magnetic grating 1μm resolution GS05 Incremental type optical grating 0.5μm resolution GS05A Absolute type optical grating 0.5μm resolution DS10 Encoder 1μm resolution	Servo Driver LD: Limon SE: Servotronics PA: Panasonic MI: Mitsubishi N: (No Servo Driver)	Wire Length 0L: (No Wire) 3L:3m 5L:5m 8L:8m 	Photoelectric Sensor P1:1PC P2: 2PCS P3: 3PCS No Mark.No Sensor



Max Static Forces And Torques



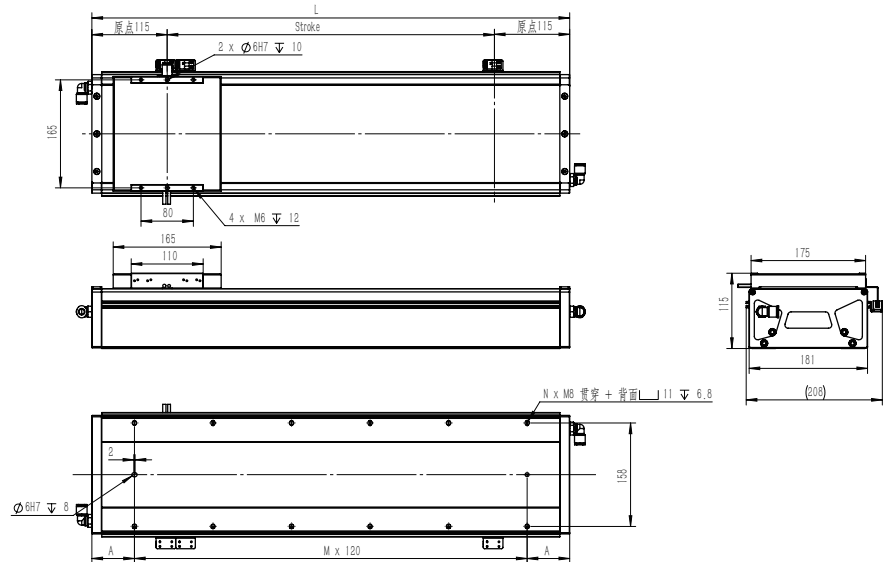
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronics	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

Technical Parameters	Type		RLC175-C1	RLC175D2-C1	RLC175-C2	RLC175D2-C2
	Driving Method		Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy		±2μm			
	Strength	X-X	20μm/300mm			
		Y-Y	20μm/300mm			
	Max load		40 kg		80kg	
	(MM/S) Max Speed		4 m/s			
	(M/S²) Max Accelerated Speed		3G		4G	
Technical Parameters	(Peak Current)		7.2 Arms		21.9Arms	
	(Continuous Current)		3.6 Arms		7.3 Arms	
	(Peak Thrust)		480 N		1200 N	
	Continuous Thrust(N)		240 N		480 N	
	(Interphase Resistance)		5.4Ω		2.8Ω	
	(Interphase Inductance)		30 mH		16.1 mH	
	(EMF constanst)		27Vrms/m/s		54.1Vrms/m/s	
	(Maagnetic Pole Distance)		24mm			
Basic Specification	(mm) Standard Stroke		100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section		208*115mm			
	Home Sensor		PM-Y45(NPN)			

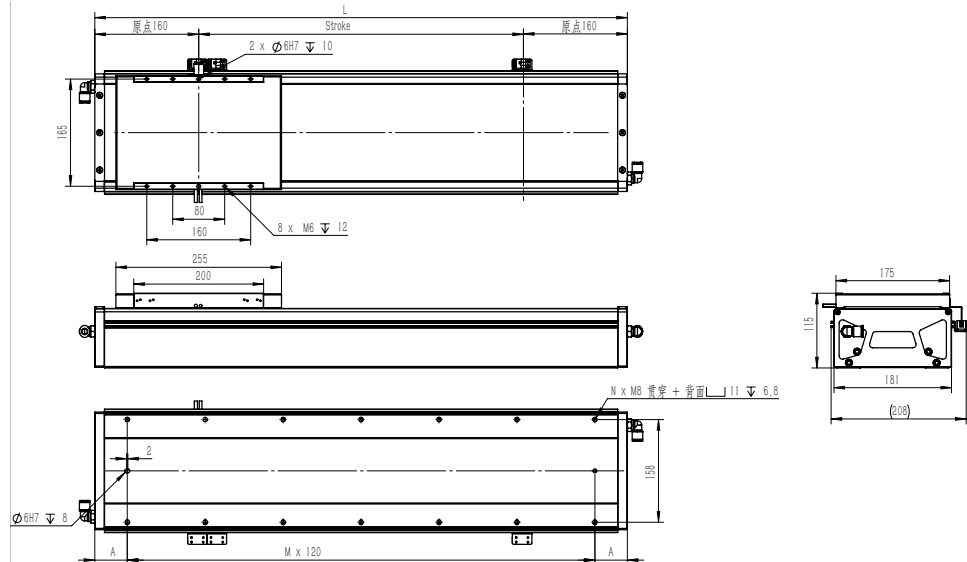
RLC175-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	330	430	530	630	730	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	2530
M	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20
N	6	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42
A	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	11.6	13.7	15.8	17.8	19.9	22.0	24.0	26.1	28.2	30.4	32.5	34.6	36.6	38.7	40.8	42.8	44.9	47.0	49.0	51.1	53.2	55.4	57.5

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2630	2730	2830	2930	3030	3130	3230	3330	3430	3530	3630	3730	3830	3930	4030	4130	4230	4330	4430	4530	4630	4730
M	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38
N	44	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78
A	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
Weight (kg)	59.6	61.6	63.7	65.8	67.8	69.9	72.0	74.0	76.1	78.2	80.4	82.5	84.5	86.6	88.7	90.7	92.8	94.9	96.9	99.0	101.1	103.1

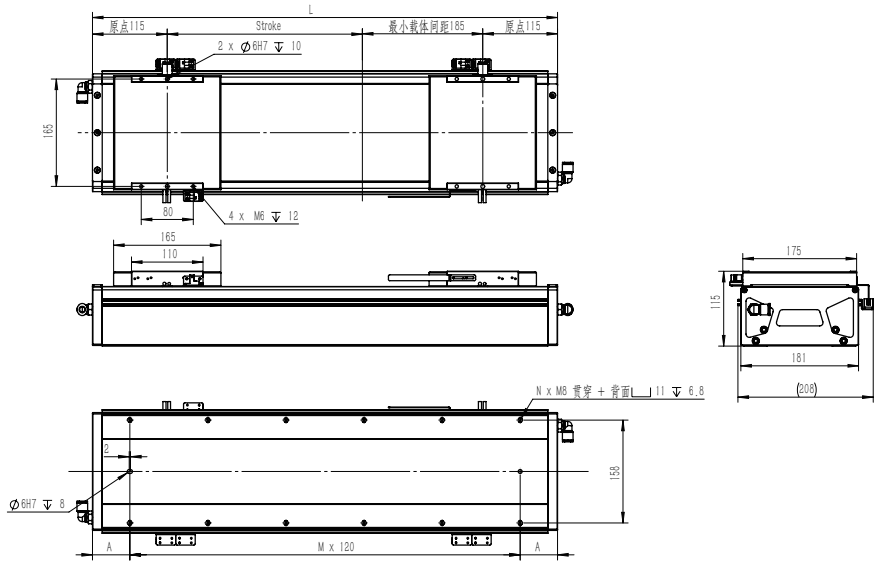
RLC175-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	420	520	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	2420	2520	2620
M	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	18	18	19	20	21
N	8	8	10	12	14	16	18	18	20	22	24	26	28	28	30	32	34	36	38	38	40	42	44
A	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50
Weight (kg)	16.5	18.6	20.7	22.7	24.8	26.9	28.9	31.0	33.1	35.1	37.2	39.5	41.5	43.6	45.7	47.7	49.8	51.9	53.9	56.0	58.1	60.1	62.2

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2720	2820	2920	3020	3120	3220	3320	3420	3520	3620	3720	3820	3920	4020	4120	4220	4320	4420	4520	4620	4720	4820
M	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38	38	39
N	46	48	48	50	52	54	56	58	58	60	62	64	66	68	68	70	72	74	76	78	78	80
A	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70	60	50	40	30	80	70
Weight (kg)	64.4	66.5	68.6	70.6	72.7	74.8	76.8	78.9	81.0	83.0	85.1	87.2	89.4	91.5	93.6	95.6	97.7	99.8	101.8	103.9	106.0	108.0

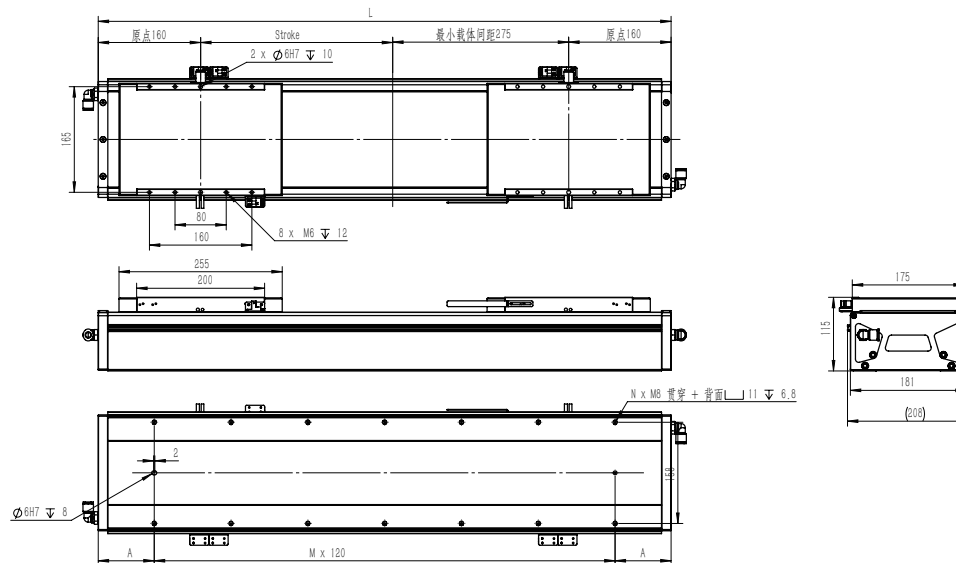
RLC175D2-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	515	615	715	815	915	1015	1115	1215	1315	1415	1515	1615	1715	1815	1915	2015	2115	2215	2315	2415	2515	2615	2715
M	3	4	5	6	7	7	8	9	10	11	12	12	13	14	15	16	17	17	18	19	20	21	22
N	8	10	12	14	16	16	18	20	22	24	26	26	28	30	32	34	36	36	38	40	42	44	46
A	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5
Weight (kg)	19.7	21.8	23.8	25.9	28.0	30.0	32.1	34.2	36.2	38.3	40.4	42.6	44.7	46.8	48.8	50.9	53.0	55.0	57.1	59.2	61.2	63.3	65.4

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2815	2915	3015	3115	3215	3315	3415	3515	3615	3715	3815	3915	4015	4115	4215	4315	4415	4515	4615	4715	4815	4915
M	22	23	24	25	26	27	27	28	29	30	31	32	32	33	34	35	36	37	37	38	39	40
N	46	48	50	52	54	56	56	58	60	62	64	66	66	68	70	72	74	76	76	78	80	82
A	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5
Weight (kg)	67.6	69.7	71.8	73.8	75.9	78.0	80.0	82.1	84.2	86.2	88.3	90.4	92.6	94.7	96.7	98.8	100.9	102.9	105.0	107.1	109.1	111.2

RLC175D2-C2



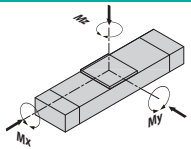
Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	695	795	895	995	1095	1195	1295	1395	1495	1595	1695	1795	1895	1995	2095	2195	2295	2395	2495	2595	2695	2795	2895
M	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21	22	23
N	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44	44	46	48
A	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5
Weight (kg)	29.3	31.4	33.6	35.7	37.7	39.8	41.9	43.9	46.0	48.1	50.1	52.2	54.3	56.3	58.6	60.7	62.7	64.8	66.9	68.9	71.0	73.1	75.1

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2995	3095	3195	3295	3395	3495	3595	3695	3795	3895	3995	4095	4195	4295	4395	4495	4595	4695	4795	4895	4995	5095
M	24	25	26	26	27	28	29	30	31	31	32	33	34	35	36	36	37	38	39	40	41	41
N	50	52	54	54	56	58	60	62	64	64	66	68	70	72	74	76	78	80	82	84	84	84
A	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5	77.5	67.5	57.5	47.5	37.5	87.5
Weight (kg)	77.2	79.3	81.3	83.6	85.7	87.7	89.8	91.9	93.9	96.0	98.1	100.1	102.2	104.3	106.3	108.6	110.6	112.7	114.8	116.8	118.9	121.0

Code	RLC 220	C1	500	MS10	LD	3L	P3
Item NO.	RLC220 Single Carriage	Rotor Specification C1: Standard Rotor C2: Standard Rotor	Stroke 100-4500 Gap100	Grating Ruler Specification MS10 Incremental type magnetic grating 1μm resolution MS10A Absolute type magnetic grating 1μm resolution GS05 Incremental type optical grating 0.5μm resolution GS05A Absolute type optical grating 0.5μm resolution DS10 Encoder 1μm resolution	Servo Driver LD: Limon SE: Servotronix PA: Panasonic MI: Mitsubishi N: (No Servo Driver)	Wire Length 0L: (No Wire) 3L:3m 5L:5m 8L:8m	Photoelectric Sensor P1: 1PC P2: 2PCS P3: 3PCS No Mark/No Sensor



Max Static Forces And Torques



Type	RLC220-C1	RLC220-C2
■F(y) _(N)	8072	8072
■F(z) _(N)	8072	8072
■M(x) _(N·m)	406	406
■M(y) _(N·m)	215	420
■M(z) _(N·m)	420	600

All forces and torques relate to the following:

$$\frac{M_x}{M_x \max.} + \frac{M_y}{M_y \max.} + \frac{M_z}{M_z \max.} \leq 1$$

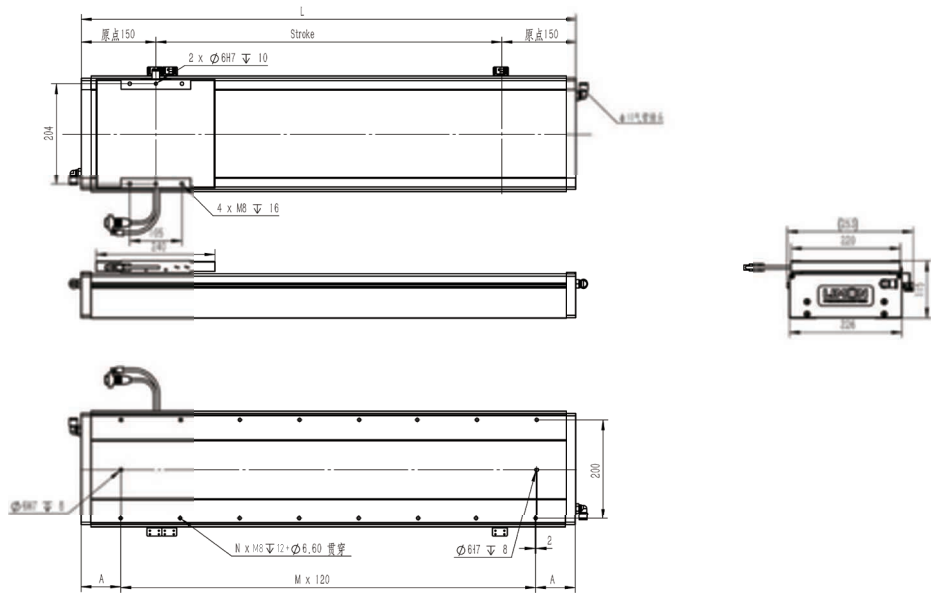
Drive Compatibility Chart

Brand	Mark	Driver Model	Connection Signal
Limon	LD	LD-LP	Pulse
		LD-LE	EtherCAT
Servotronix	SE	CDHD-AP1	Pulse
		CDHD-EC1	EtherCAT
Panasonic	PA	MBDLN-SL	Pulse
		MBDLN-BL	EtherCAT
Mitsubishi	MI	MR-J4-A	Pulse
		MR-J4-B	SSCNET III/H

Basic Specification

Technical Parameters	Type		RLC220-C1	RLC220D2-C1	RLC220-C2	RLC220D2-C2
	Driving Method		Linear Motor Driven Type With Iron Core			
	(μ) Repetitive Accuracy		±2μm			
	Strength	X-X	20μm/300mm			
		Y-Y	20μm/300mm			
	Max load		60 kg		120 kg	
	(MM/S) Max Speed		4 m/s			
	(M/S²) Max Accelerated Speed		4G			
Technical Parameters	(Peak Current)		9.6 Arms		19.2 Arms	
	(Continuous Current)		3.6 Arms		7.2 Arms	
	(Peak Thrust)		900 N		1800 N	
	Continuous Thrust(N)		340 N		680 N	
	(Interphase Resistance)		7.5Ω		3.9 Ω	
	(Interphase Inductance)		42.3 mH		21.5 mH	
	(Maagnetic Pole Distance)		24mm			
Basic Specification	(mm) Standard Stroke		100-4500 mm / 100 pitch			
	Max Outline of Main Engine's Cross Section		226*115			
	Home Sensor		PM-Y45(NPN)			

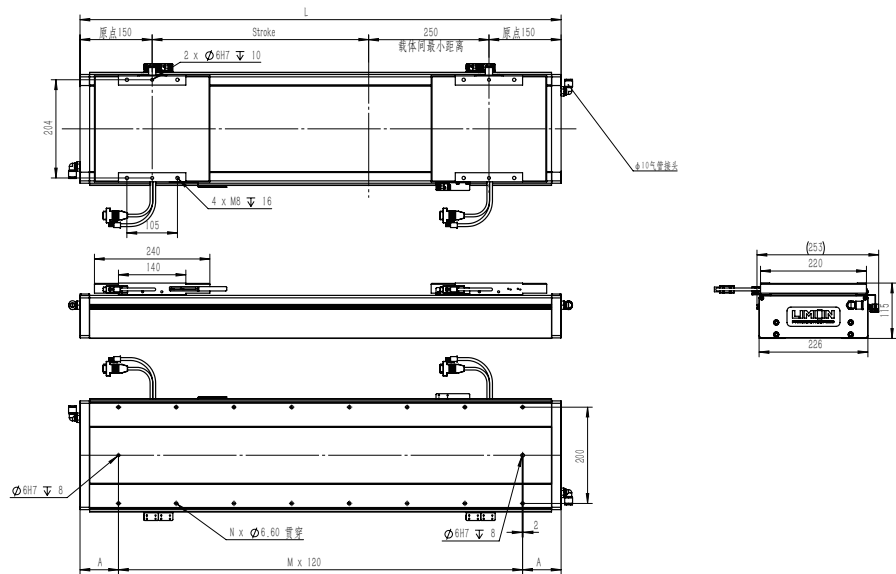
RLC220-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
M	2	3	4	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21
N	6	8	10	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44
A	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40
Weight (kg)	17.1	19.7	22.3	25.0	27.6	30.2	32.9	35.8	38.4	41.0	43.7	46.3	49.0	51.6	54.2	56.9	59.5	62.1	64.8	67.7	70.3	72.9	75.6

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2650	2750	2850	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750
M	21	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39
N	44	46	48	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35
Weight (kg)	78.2	80.8	83.5	86.1	88.7	91.4	94.0	96.6	99.5	102.2	104.8	107.4	110.1	112.7	115.4	118.0	120.6	123.3	125.9	128.5	131.4	134.1

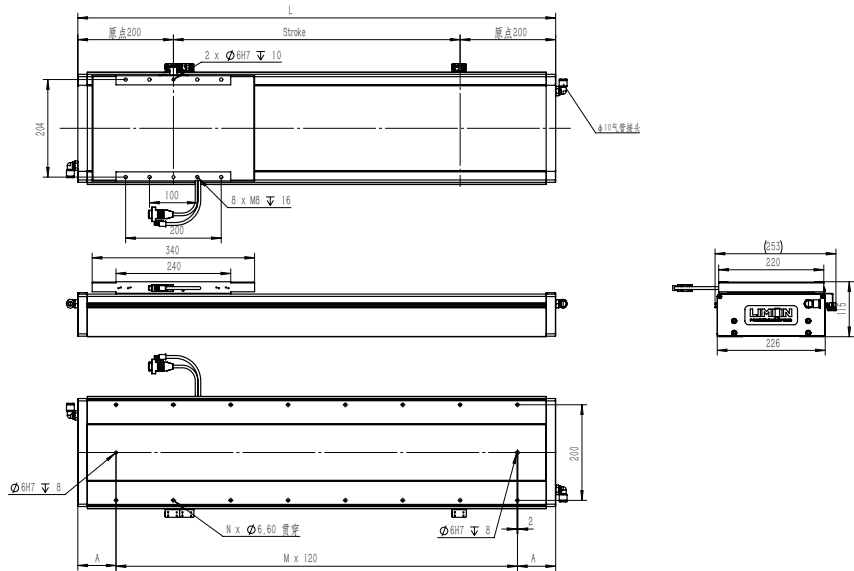
RLC220D2-C1



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850
M	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23
N	10	12	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48
A	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45
Weight (kg)	29.7	32.4	35.0	37.6	40.5	43.2	45.8	48.4	51.1	53.7	56.4	59.0	61.6	64.3	66.9	69.5	72.4	75.1	77.7	80.3	83.0	85.6	88.2

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2950	3050	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050
M	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41
N	50	50	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84
A	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65
Weight (kg)	90.9	93.5	96.1	98.8	101.4	104.3	106.9	109.6	112.2	114.8	117.5	120.1	122.8	125.4	128.0	130.7	133.3	136.2	138.8	141.5	144.1	146.7

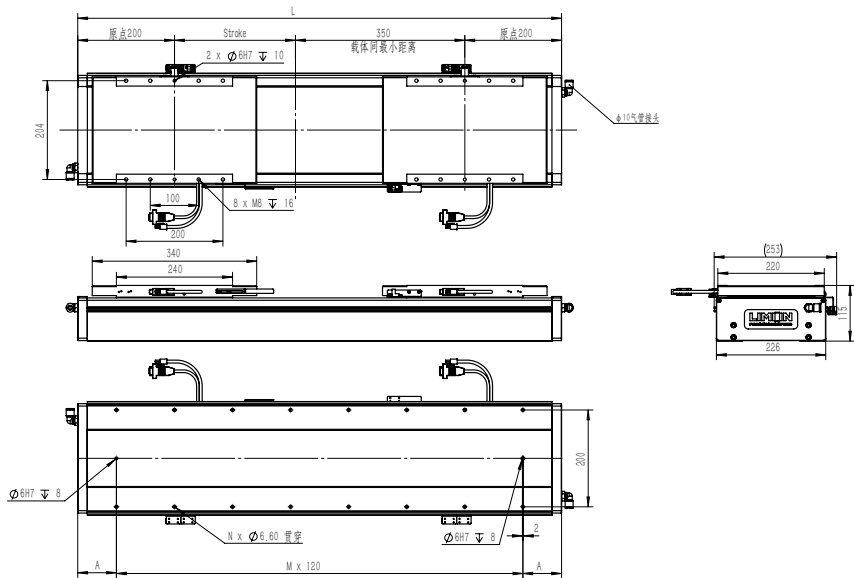
RLC220-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700
M	3	4	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	17	18	19	20	21	21
N	8	10	12	14	14	16	18	20	22	24	24	26	28	30	32	34	34	36	38	40	42	44	44
A	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90
Weight (kg)	23.8	26.4	29.0	31.7	34.3	36.9	39.8	42.5	45.1	47.7	50.4	53.0	55.6	58.3	60.9	63.5	66.2	68.8	71.7	74.3	77.0	79.6	82.2

Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500	4600	4700	4800	4900
M	22	23	24	25	26	26	27	28	29	30	31	31	32	33	34	35	36	36	37	38	39	40
N	46	48	50	52	54	54	56	58	60	62	64	64	66	68	70	72	74	74	76	78	80	82
A	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50	40	90	80	70	60	50
Weight (kg)	84.9	87.5	90.2	92.8	95.4	98.1	100.7	103.6	106.2	108.9	111.5	114.1	116.8	119.4	122.0	124.7	127.3	129.9	132.6	135.5	138.1	140.7

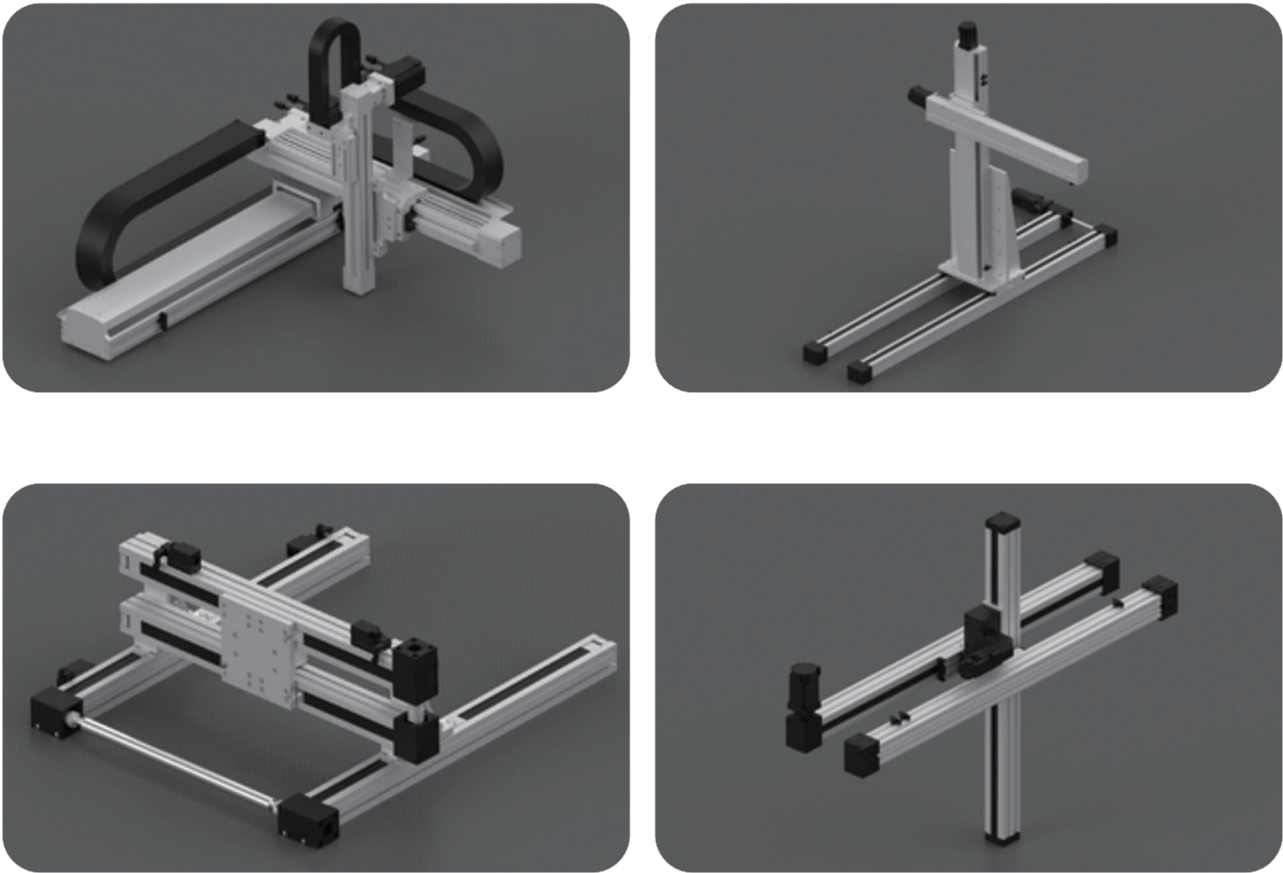
RLC220D2-C2



Stroke (mm)	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Length (L)	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	3050
M	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22	23	24	24
N	14	16	18	20	20	22	24	26	28	30	30	32	34	36	38	40	40	42	44	46	48	50	50
A	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85
Weight (kg)	43.1	45.7	48.6	51.3	53.9	56.5	59.2	61.8	64.4	67.1	69.7	72.4	75.0	77.6	80.5	83.2	85.8	88.4	91.1	93.7	96.3	99.0	101.6

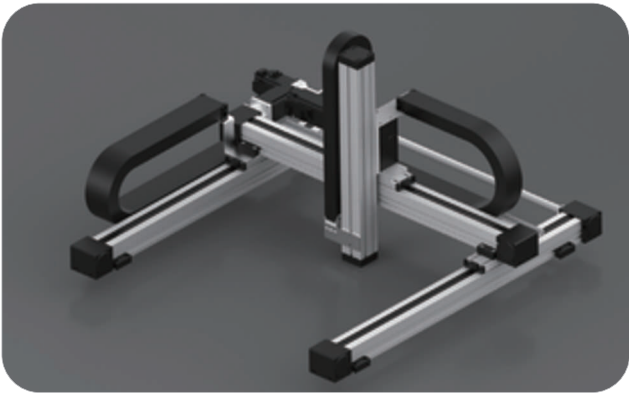
Stroke (mm)	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
Length (L)	3150	3250	3350	3450	3550	3650	3750	3850	3950	4050	4150	4250	4350	4450	4550	4650	4750	4850	4950	5050	5150	5250
M	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39	39	40	41	42	43
N	52	54	56	58	60	60	62	64	66	68	70	70	72	74	76	78	80	80	82	84	86	88
A	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45	35	85	75	65	55	45
Weight (kg)	104.2	106.9	109.5	112.4	115.0	117.7	120.3	122.9	125.6	128.2	130.8	133.5	136.1	138.7	141.4	144.3	146.9	149.6	152.2	154.8	157.5	160.1

Linear Motion Systems can be used in almost all industries . The breadth of our range makes it possible to find the optimum solution for most applications imaginable. If the standard range is not enough, Limon is happy to discuss a custom solution that meets your needs. Contact us and we can show you many, many more.



Note:
All indicated item, must be chosen with linear guide.The load capacity will decline if the arm is in overlong length.For actual figure required,please contact limon robot.
We offer all neccessary fittings including brackets,clamping fixtures and adapter plates in order to build multi-axis systems. Besides standard elements,we also supply customized non-standard elements manufactured in our workshop.

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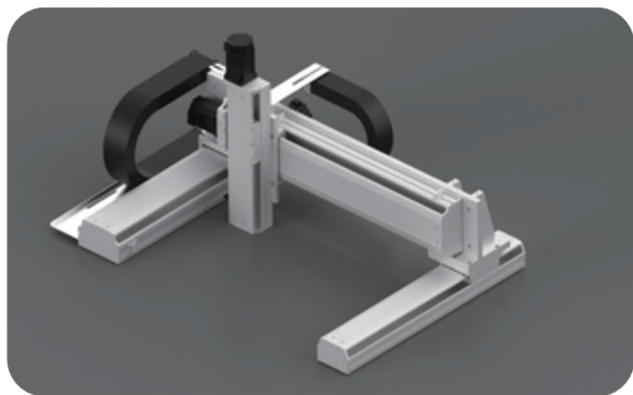


Multi-axis combination module

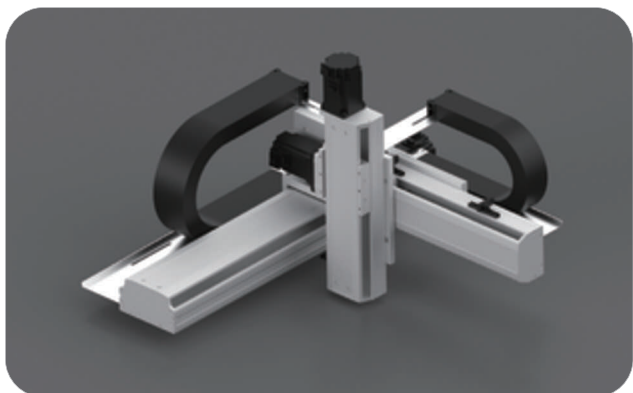
	lxyz60			lxyz80		
	X Axis	Y Axis	Z Axis	X Axis	Y Axis	Z Axis
Axis Composition	ITO60	ITO60	ITZ60	ITO80	ITO80	ITZ60
Repetitive Accuracy (mm)	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
Driving Method	Belt	Belt	Belt	Belt	Belt	Belt
(mm/s) Max Speed	2000	2000	1000	2000	2000	1000
(mm) Max Stroke	4000	1500	1000	4000	2500	1000
(kg) Max Transport Load	5kg			12kg		

Note:
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Multi-axis combination module							
		Yxyz110-XB			Yxyz135-XB		
		X Axis	Y Axis	Z Axis	X Axis	Y Axis	Z Axis
Axis Composition (mm)		GSC80	GSC80	GSC50	YSO135	YSO135	GSC80
Repetitive Accuracy		±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Driving Method		Ball Screw	Ball Screw	Ball Screw	Ball Screw	Ball Screw	Ball Screw
(mm/s)							
Max Speed		1000	1000	500	1000	1000	500
(mm)							
Max Stroke		1050	450	250	1250	550	350
		Z Axis Stroke			Z Axis Stroke		
(mm)							
Y Axis Stroke		150	250	-	150	250	350
(kg) Max Transport Load	150	5kg	5kg	-	10kg	10kg	9kg
	250	5kg	5kg	-	9kg	8kg	7kg
	350	5kg	5kg	-	7kg	6kg	5kg
	450	-	-	-	5kg	4kg	3kg
	550	-	-	-	3ka	2ka	1ka



Multi-axis combination module							
		Yxyz110-LM			Yxyz135-LM		
		X Axis	Y Axis	Z Axis	X Axis	Y Axis	Z Axis
Axis Composition		GSC80	GSC80	GSC50	YSO135	YSO135	GSC80
(mm)							
Repetitive Accuracy		±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Driving Method		Ball Screw	Ball Screw	Ball Screw	Ball Screw	Ball Screw	Ball Screw
(mm/s)							
Max Speed		1000	1000	500	1000	1000	500
(mm)							
Max Stroke		1050	650	250	1250	550	350
		Z Axis Stroke			Z Axis Stroke		
(mm)							
Y Axis Stroke		100-250			100-350		
(kg)							
Max Transport Load	150-650	5kg			15kg		

Note:
All indicated item, must be chosen with linear guide.The load capacity will decline if the arm is in overlong length.For actual figure required,please contact limon robot.
We offer all neccessary fittings including brackets,clamping fixtures and adapter plates in order to build multi-axis systems. Besides standard elements,we also supply customized non-standard elements manufactured in our workshop.

Feed Force Formula [N]

$$F_x = m \times g \times \mu$$

Fx = feed force [N]
m = total mass to be moved [kg] ¹
g = acceleration due to gravity [m/s²]
μ = friction factor specific for each unit

Acceleration Force Formula [N]

$$F_a = m \times a$$

Fa = acceleration force [N]
m = mass to be operated [kg]
a = acceleration [m/s²]²

Power Formula [kW]

$$P = \frac{M_A \times n_{\max} \times 2 \times 3,14}{60 \times 1000}$$

P = required power [kW]
M_A = required drive moment [Nm]
n_{max} = maximum required rotational speed [rpm]

Drive Moment Formulas [Nm]

$$M_A = M_{load} + M_{trans} + M_{rot} + M_{idle}$$

$$M_{\text{load}} = \frac{F_x \times p}{2 \times 3,14 \times 1000}$$

$$M_{trans} = \frac{F_a \times p}{2 \times 3,14 \times 1000}$$

$$M_{\text{rot}} = j_{\text{sp}} \times \frac{2 \times 3,14 \times n_{\text{max}} \times a \times 2}{V_{\text{max}} \times 60 \times 1000}$$

Midle = see table for unit in question

M	= required drive moment [Nm]
Mload	= moment as a result of various loads [N]
Mtrans	= translational acceleration moment [Nm]
Mrot	= rotational acceleration moment [Nm]
Midle	= max no-load driving torque [Nm] ³
Fx	= feed force [N]
p	= screw lead [mm]
Fa	= maximum required acceleration force [N]
j_{sp}	= inertia of ball screw per meter [kgm ² /m] ⁴
n_{max}	= maximum required rotational speed [rpm]
a	= maximum required acceleration [m/s ²]
V_{max}	= maximum required linear speed [m/s]

¹The total mass is the mass of all masses to be moved (objects to be moved, carriage(s)/rod, screw).

² In vertical applications, the mass acceleration must be added to the acceleration due to gravity g (9,81 m/s²).

³ This value can be found in the carriage idle torque tables for each linear motion system.

⁴ This value can be found in the additional technical data tables.

	KS50	KS60	KS86	GSCS50	GSC80	GSC120	YSO/YSC135	YSO/YSC170	YSO220
Inertia Of Ball Screw Per Meter (kgm ² /m)	0.3x10 ⁻⁵	1.6x10 ⁻⁵	3.9x10 ⁻⁵	1.6x10 ⁻⁵	3.9x10 ⁻⁵	3.9x10 ⁻⁵	3.9x10 ⁻⁵	12.3x10 ⁻⁵	30.1x10 ⁻⁵

Feed Force Formula [N]

Fx = m × g × μ

Acceleration Force Formula [N]

Fa = m × a

Power Formula [kW]

P = (MA × nmax × 2 × 3,14) / (60 × 1000)

Drive Moment Formulas [Nm]

MA = Mload + Mtrans + Mrot + M idle

Mload = (Fx × do) / (1000 × 2)

Mtrans = (Fa × do) / (1000 × 2)

Mrot = Jsyn × (2 × 3,14 × nmax / 60) × (a / Vmax)

Midle = see table for unit in question

Fx = feed force [N]
m = total mass to be moved [kg] ¹
g = acceleration due to gravity [m/s²]
μ = friction factor specific for each unit

Fa = acceleration force [N]
m = mass to be operated [kg]
a = acceleration [m/s²] ²

P = required power [kW]
MA = required drive moment [Nm]
nmax = maximum required rotational speed [rpm]

MA = required drive moment [Nm]
Mload = moment as a result of various loads [N]
Mtrans = translational acceleration moment [Nm]
Mrot = rotational acceleration moment [Nm]
Midle = max no-load driving torque [Nm] ³
Fx = feed force [N]
do = pulley diameter [mm]
Fa = maximum required acceleration force [N]
Jsyn = inertia of pulleys per meter[kgm²] ⁴
nmax = maximum required rotational speed [rpm]
a = maximum required acceleration [m/s²]
Vmax = maximum required linear speed [m/s]

¹ The total mass is the mass of all masses to be moved (objects to be moved, carriage(s)/rod, belt).

² In vertical applications, the mass acceleration must be added to the acceleration due to gravity g (9,81 m/s²).

³ This value can be found in the carriage idle torque tables.

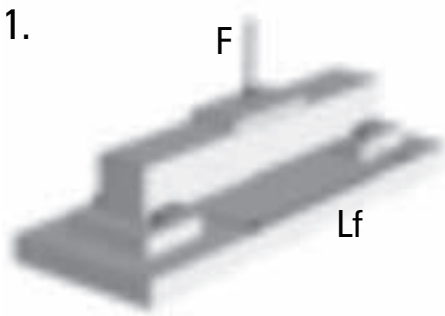
⁴ This value can be found in the performance specifications tables for each linear motion system.

⁵ This value can be found in the additional technical data tables.

	ITO40	ITO / ITC60	ITO / ITC80	ITO / ITC100	YTO/ YTC135	YTO/ YTC170
Idle Torque Of Pulleys (JSYN) , [kgm²]	1.34×10	8.42×10	33.8×10	117×10	3.88×10	7.44×10

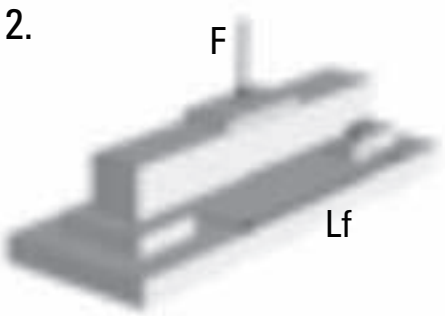
Load Cases

1.



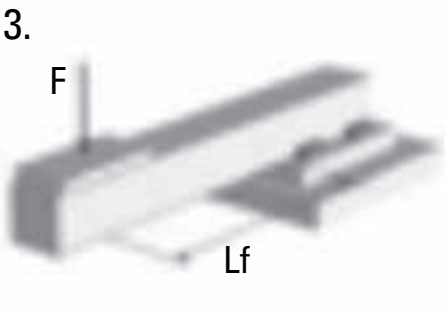
Profile supported in both ends.
Profile fixed at both sides.

2.



Profile supported in both ends.
Profile fixed at one side.

3.



Profile supported in one end.
Profile fixed at one side.

Permissible Profile Deflection Formula [mm]

fh = Lf × b

fh = permissible profile deflection [mm]
Lf = length of profile being bent [mm]
b = bending factor ¹

Profile Deflection Formulas [mm]

Load Case 1.

fmax = (m'100 × g × Lf⁴) / (100 × 384 × EAI × ly) + ((mext + mc) × g × Lf³) / (192 × EAI × ly)

Load Case 2.

fmax = (m'100 × g × Lf⁴) / (100 × 185 × EAI × ly) + ((mext + mc) × g × Lf³) / (48 × √5 × EAI × ly)

Load Case 3.

fmax = (m'100 × g × Lf⁴) / (100 × 8 × EAI × ly) + ((mext + mc) × g × Lf³) / (3 × EAI × ly)

fmax = deflection of the profile [mm]
m'100 = weight of every 100 mm of stroke [kg/mm]
mext = external load on carriage [kg]
mc = weight of carriage(s) [kg] ²
g = acceleration due to gravity [m/s²]
E I = elastic modulus of aluminium (70000 N/mm²)
ly = geometrical moment of inertia of the profile in Y direction [mm⁴] ¹

¹ This value can be found in the additional technical data tables.

² This value can be found in the performance specifications tables for each unit.

Conclusion Formulas

fh > fmax = deflection OK

fh < fmax = deflection not OK, Lf must be shorter

Example 1

Type of linear motion system:
IT080

Load case:
Case 1 - profile supported in both ends and fixed at both sides.

Load to be moved by carriage:
 $m_{ext} = 150 \text{ kg}$

Distance between supports:
 $L_f = 600 \text{ mm}$

Specific unit data:
 $m'_{100} = 0,93 \text{ kg}$
 $m_c = 2,75 \text{ kg}$
 $EAI = 70000 \text{ N/mm}^2$
 $I_y = 1,93 \times 10^6 \text{ mm}^4$
 $b = 0,0005$

Calculated values:
 $f_h = 0,3 \text{ mm}$
 $f_{max} = 0,013 \text{ mm}$

Conclusion:
 $f_h > f_{max} = \text{deflection OK}$

Example 2

Type of linear motion system:
IT060

Load case:
Case 2 - profile supported in both ends and fixed at one side.

Load to be moved by carriage:
 $m_{ext} = 100 \text{ kg}$

Distance between supports:
 $L_f = 600 \text{ mm}$

Specific unit data:
 $m'_{100} = 0,53 \text{ kg}$
 $m_c = 1,2 \text{ kg}$
 $EAI = 70000 \text{ N/mm}^2$
 $I_y = 4,59 \times 10^6 \text{ mm}^4$
 $b = 0,0005$

Calculated values:
 $f_h = 0,3 \text{ mm}$
 $f_{max} = 0,063 \text{ mm}$

Conclusion:
 $f_h > f_{max} = \text{deflection OK}$

Example 3

Type of linear motion system:
IT080

Load case:
Case 3 - profile supported and fixed at one end.

Load to be moved by carriage:
 $m_{ext} = 120 \text{ kg}$

Distance between supports:
 $L_f = 400 \text{ mm}$

Specific unit data:
 $m'_{100} = 1,08 \text{ kg}$
 $m_c = 4,26 \text{ kg}$
 $EAI = 70000 \text{ N/mm}^2$
 $I_y = 1,85 \times 10^6 \text{ mm}^4$
 $b = 0,0003$

Calculated values:
 $f_h = 0,12 \text{ mm}$
 $f_{max} = 0,203 \text{ mm}$

Conclusion:
 $f_h > f_{max} = \text{deflection not OK}$

Acceleration

Acceleration is a measure of the rate of speed change going from standstill (or a lower speed) to a higher speed. Please contact customer service if your application is critical to which acceleration rate is acceptable or needed.

Accuracy

There are several types of accuracy and many different factors that will affect the overall accuracy of a system. Also see “Repeatability”, “Positioning Accuracy”, “Lead Accuracy”.

Ball Screw Drive

A ball screw is made up of a rotating screw and a moving ball nut. The ball nut is attached to the carriage of the unit. It does not have a normal thread; instead balls circulate inside the nut making it work as an efficient ball bearing that travels along the screw. Ball screws come in a large variety of leads, diameters and tolerance classes. The tolerance class (T3, T5, T7 or T9) indicates the lead tolerance of the screw. The lower the number, the higher the tolerance. High load capability and high accuracy are typical features of ball screw driven units.

Belt Drive

A belt drive consists of a toothed belt which is attached to the carriage of the unit. The belt runs between two pulleys positioned at either end of the profile. One pulley is attached to the motor via the drive shaft in the drive station while the other is mounted in a tension station. The belts are made of plastic reinforced with steel cords. High speeds, long stroke, low noise and low overall weight are typical features of belt driven units.

Belt Gear

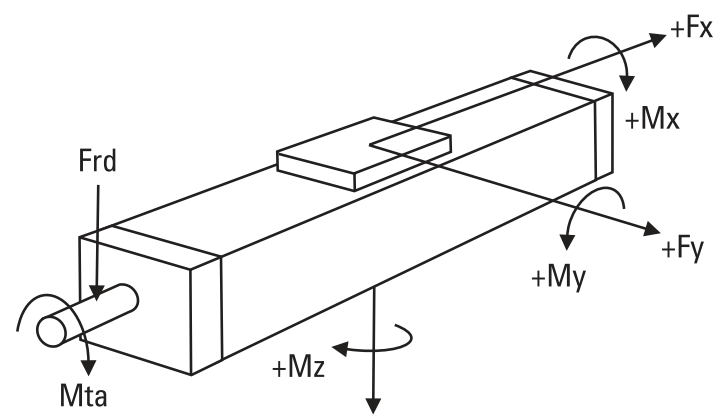
A belt gear consists of a timing belt that runs between two pulley wheels of different diameters. The difference between the diameters determines the gear ratio. Belt gears are quiet, have medium accuracy and require no maintenance but are susceptible to belt breakage under overload conditions.

Critical Speed

A belt gear consists of a timing belt that runs between two pulley wheels of different diameters. The difference between the diameters determines the gear ratio. Belt gears are quiet, have medium accuracy and require no maintenance but are susceptible to belt breakage under overload conditions.

Definition of Forces

The designations of the forces that acts on the unit are defined on the product page of each unit in the “Definition of Forces” drawing (see example below). Please always use the same definitions whenever communicating with Limon.



Deflection of the Profile

Some units require support along the whole profile whilst some are self-supporting over a specified span. Further details can be found on the product data pages. The recommended support intervals should be followed to minimize deflection of the unit. The maximum distance between the support points is shown on the product data pages. The deflection of the unit can also be calculated using the information in the “Additional data and calculations” section.

Idle Torque

Idle torque is the torque needed to move the carriage with no load in it by rotating the drive shaft. The idle torque will vary with the input speed and the idle torque tables on the product pages gives a value for some speeds. The value given in the table is for a unit having a single carriage of standard length. If you need the exact value for another speed, multiple carriages or short/long carriages, please contact our customer service.

Inertia

Inertia is the property of an object to resist speed changes and is dependent on the shape and the mass of the object. The inertia is important when sizing and selecting and also when tuning a servo system to optimum performance. Consult customer service for more information.

Lifetime Expectancy

When determining the lifetime for a linear motion system it is necessary to evaluate all forces and moments that are acting on the unit. The data and formulas given in this catalogue serve as a basis for this. For a more detailed lifetime calculation please use our sizing and selection software. Please contact us for further guidance.

Load Rating

There are many types of load ratings that all needs to be considered. Normally when you speak about the load you refer to the load that the carriage will move; which is the dynamic load. But there may also be static, side, moment and forces from acceleration, deceleration, gravity and friction that are all equally important. For some units the load and load torque values are given for both the complete unit and the guiding system. The values for the complete unit are the values under which the unit can operate. The values for the guiding system should only be used when comparing different units and do not describe the actual performance of the complete unit.

Positioning Accuracy

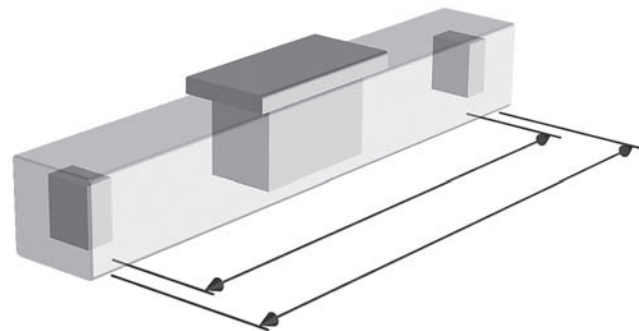
Positioning accuracy is the error between the expected and actual position and is the sum of all factors that will reduce the accuracy (i.e. repeatability, backlash, resolution, screw/belt accuracy, and the accuracy of the motor, drive and motion control system). Some of these factors, such as backlash and lead accuracy, can sometimes be compensated for in the software of the motion control system being used. Also see "Accuracy".

Repeatability

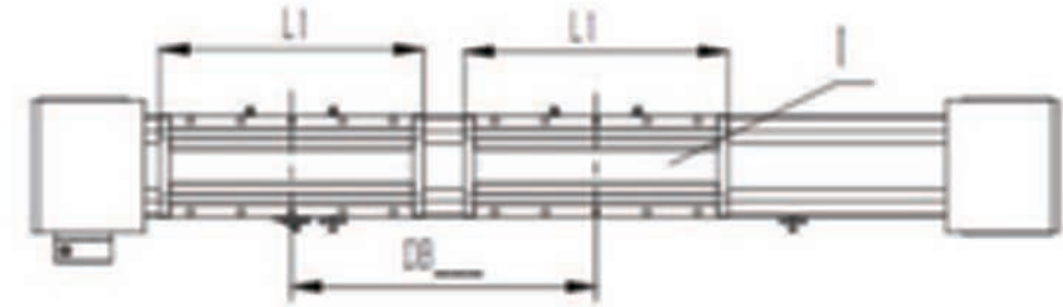
Repeatability is the ability for a positioning system to return to a location when approaching from the same distance, at the same speed and deceleration rate. Some of the factors that affect the repeatability are the angular repeatability of the motor, drive and motion control system, system friction and changes in load, speed and deceleration.

Stroke

The theoretical maximum stroke (Smax) is the length that the carriage can travel from one end of the unit to the other. However, using the maximum stroke means that the carriage will collide with the ends of the profile. The practical stroke is there fore shorter. We recommend that you specify a unit that have at least 100 mm longer stroke than the maximum stroke you need so that the unit can stop before colliding with the ends and also allow for some adjustment of the unit position at the mounting.



Calculation method of the auxiliary block stroke



L1=Block Length

DB_=Center

I=Auxiliary Block

Example

Item No.: **ITO60-500-DB300...**

Stroke(without auxiliary block)=500mm

Stroke(with auxiliary block)=200mm(500-300=200mm)

Stroke(with auxiliary block)=200mm(500-300=200mm)