Order guide

JTH12 - 5 - 50 - CM - P - 200W - C - 3

Code | 1 Lead | 2 Effective stroke | 3 Motor mounting method | 4 Motor brand | 5 Motor specifications | 6 Home switch | 7 Limit switch

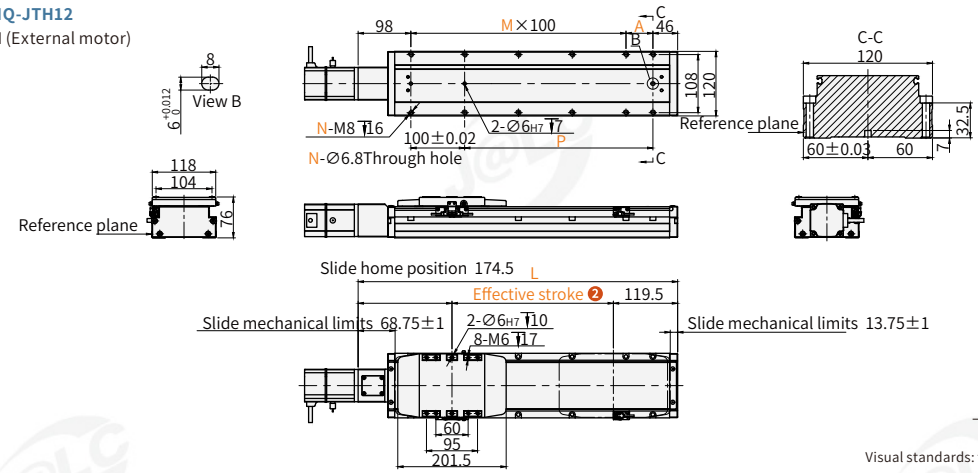
Please refer to the series code to select the type and parameters for ordering.

Code	Transmission	Guide rail	Operating environment	Slide type	Base width	Repeat positioning accuracy
JTH12	Screw transmission	Guideway-free	General environment	Standard	Base width 120 mm	±0.01

This product does not include a motor, the motor must be purchased separately.

BNQ-JTH12

CM (External motor)

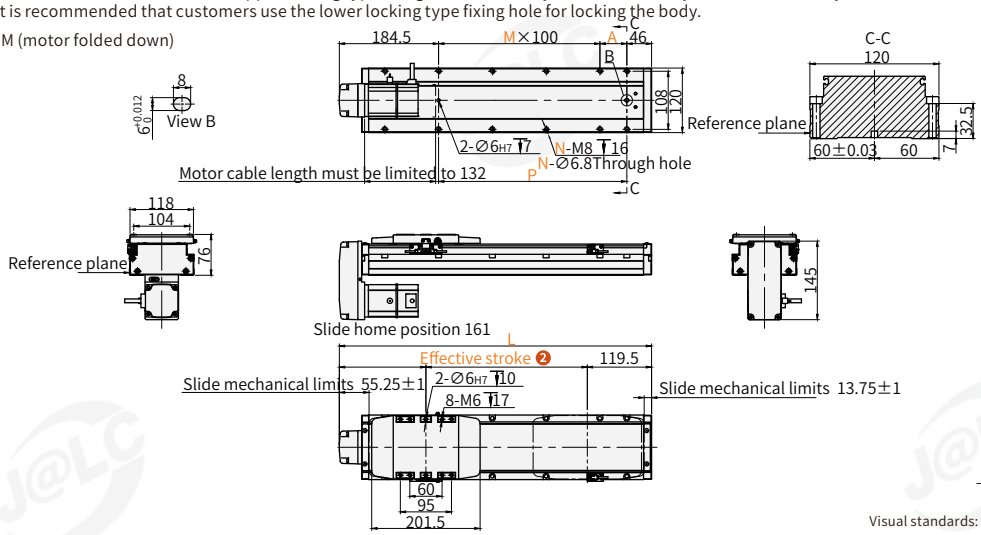


Visual standards: first perspective

Motor mounting method	Effective stroke ❷ Strok	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
CM Motor directly connected)	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
	P	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
	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

When the stroke is 50, because the upper locking type fixing hole of the body will be covered by the slide table, only 4 screws can be used for fixing, so it is recommended that customers use the lower locking type fixing hole for locking the body.

DM (motor folded down)

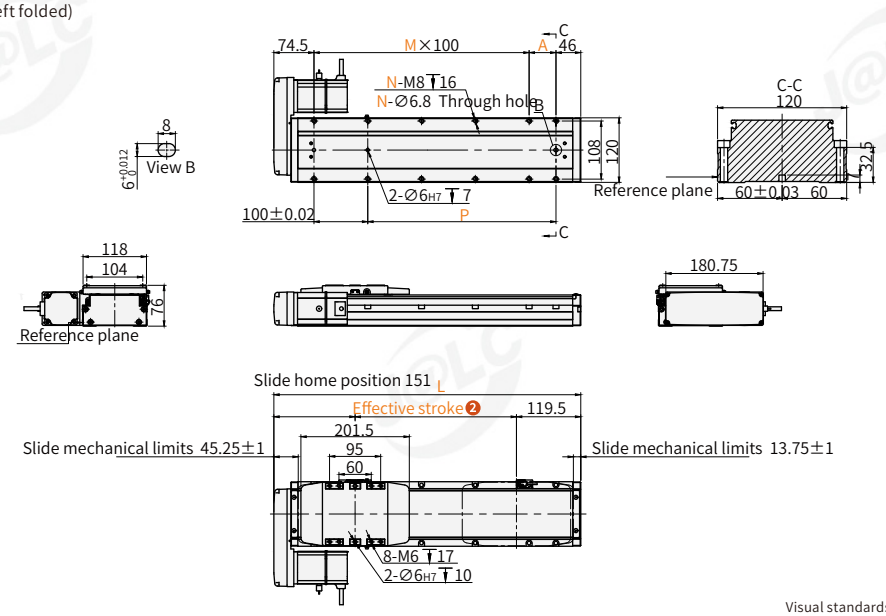


Visual standards: first perspective

Motor mounting method	Effective stroke ❷ Strok	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
DM (Motor folded down)	L	330.5	380.5	430.5	480.5	530.5	580.5	630.5	680.5	730.5	780.5	830.5	880.5	930.5	980.5	1030.5	1080.5	1130.5	1180.5	1230.5	1280.5	1330.5	1380.5	1430.5	1480.5	1530.5
	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	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
	N	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28
	P	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
	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	13.26	13.61

When the stroke is 50, because the upper locking type fixing hole of the body will be covered by the slide table, only 4 screws can be used for fixing, so it is recommended that customers use the lower locking type fixing hole for locking the body.

LM (motor left folded)

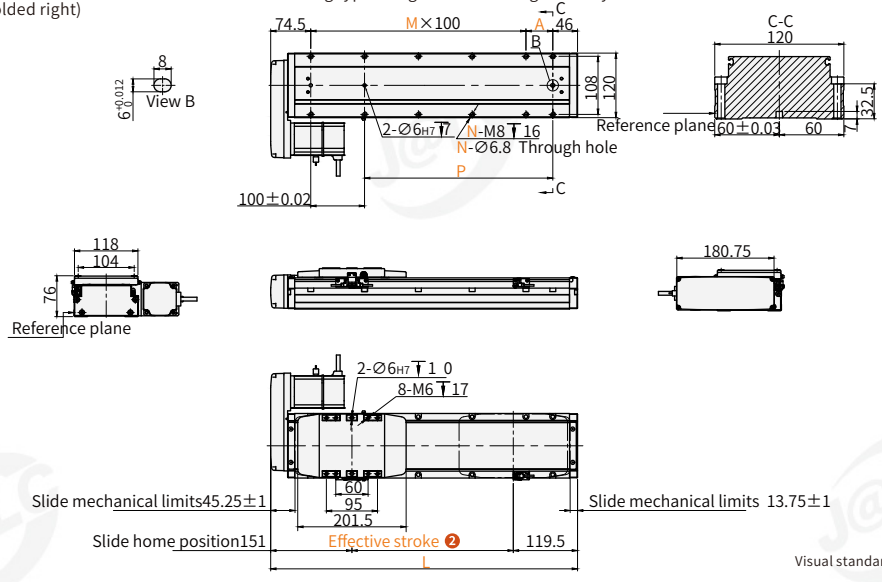


Visual standards: first perspective

Motor mounting method	Effective stroke Strok ❷	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
RM (Motor right folded)	L	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	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
	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
	P	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
	KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.56	12.91	13.26	13.61

◉ When the stroke is 50, because the upper locking type fixing hole of the body will be covered by the slide table, only 4 screws can be used for fixing, so it is recommended that customers use the lower locking type fixing hole for locking the body.

RM (motor folded right)



Visual standards: first perspective

Motor mounting method	Effective stroke Strok ❷	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
LM (Motor left folded)	L	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	1070.5	1120.5	1170.5	1220.5	1270.5	1320.5	1370.5	1420.5	1470.5	1520.5
	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
	P	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
	KG	5.25	5.6	5.95	6.3	6.65	7	7.35	7.7	8.05	8.4	8.75	9.1	9.45	9.8	10.15	10.85	11.2	11.55	11.9	12.25	12.6	12.56	12.91	13.26	13.61

◉ When the stroke is 50, because the upper locking type fixing hole of the body will be covered by the slide table, only 4 screws can be used for fixing, so it is recommended that customers use the lower locking type fixing hole for locking the body.

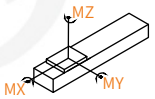
Model		Effective stroke (min. unit 50) ②	Motor mounting method ③	Motor brand ④	Motor specifications ⑤	Home switch ⑥	Limit switch ⑦
Code	Screw lead ①						
JTH12	5	50~1250 Non-standard stroke can be customized	CM (Motor directly connected) DM (motor folded down) RM (motor folded right) LM (motor left folded)	P (Panasonic) Y (Yaskawa) M (Mitsubishi) T (Delta)	200W, 400W servo	External type C (motor side) D (motor reverse side) None E (none)	External type 3 (1*) 4 (2*) None 5 (none)
	10						
	20						
	32						

Detailed parameter list

Recommended motor specifications ⑤			200W servo				400W servo			
Performances	Repeat positioning accuracy(mm)		±0.01							
	Screw lead (mm) ①		5	10	20	32	5	10	20	32
	Max. speed (mm/s)		250	500	1000	1600	250	500	1000	1600
	Max. load (kg)	Horizontal use	95	75	35	15	110	88	40	30
		Vertical use	27	18	7	—	33	22	10	8
	Rated thrust (N)		683	341	174	107	1388	694	347	218
	Standard stroke (mm)		50~1250 (50mm interval)							
Component	Ball screw outer diameter(mm)		16							
	Coupling		10 x 14/11 (note 1)							
	Rail form		Embedded							
	Inductive switch	External type	SX674(NPN)							

Allowable torque table

Mxd	1168N.M
Myd	606N.M
Mzd	606N.M



The torque values in the table are the dynamic allowable torque based on a stroke life of 10,000 km for the slide.
Torque conditions.
(Mx, My, Mz are the actual moments in each direction)

Description.
1. The actual load is subject to the following conditions.
(a) Satisfy the Max. load condition in the "Detailed Parameter List".
(b) Satisfy the torque conditions in the "Table of permissible moments".
Excessive use will significantly reduce the life of the slide.
2. The data in the table is based on a rated life of 10,000km.
3. Repeat positioning accuracy in the table is a unidirectional value.
4. After a certain stroke of the screw-driven slide table, the maximum speed should be reduced appropriately. In order to avoid the resonance of the slide, affecting the use of life.
5. The rated acceleration of the slide is 0.3G, and the short stroke slide may not be able to reach the maximum speed.
6. If the sliding table is used vertically, please choose the motor with holding brake.

- If the stroke exceeds 750, the screw will polarize, please reduce the speed.
- Note 1: When using Panasonic 200W motor, the motor shaft center is 11, other brands, the motor shaft center is 14.
- If you need Omron brand or PNP type photoelectric switch, please communicate with us.

Matching servo motor list

Motor brand ④	With or without brakes	Motor capacity ⑥	Servo motor model	Drive model
P Mitsubishi	No brakes (horizontal)	200W	MSMF012L1U2M	MADLNO5SE
	With brake (vertical)		MSMF012L1V2M	
Panasonic	No brakes (horizontal)		HG-KN13J-S100	MR-JE-10A
	With brake (vertical)		HG-KN13BJ-S100	
Delta (B2)	No brakes (horizontal)		ECMA-C20401GS	ASD-B2-0121-B
	With brake (vertical)		ECMA-C20401FS	
P Mitsubishi	No brakes (horizontal)	400W	HG-KR43	MR-J4-40A
	With brake (vertical)		HG-KR43B	
Panasonic	No brakes (horizontal)		MSMD042G1U	MBDHT2510
	With brake (vertical)		MSMD042G1V	
Delta (B2)	No brakes (horizontal)		ECMA-C20604ES	ASD-B20421-B
	With brake (vertical)		ECMA-C20604FS	

- For other motors, please consult our staff.
- The models in the table are the motor and driver models for sale in our official website, the standard module model only provides the module part, not with the motor and driver.