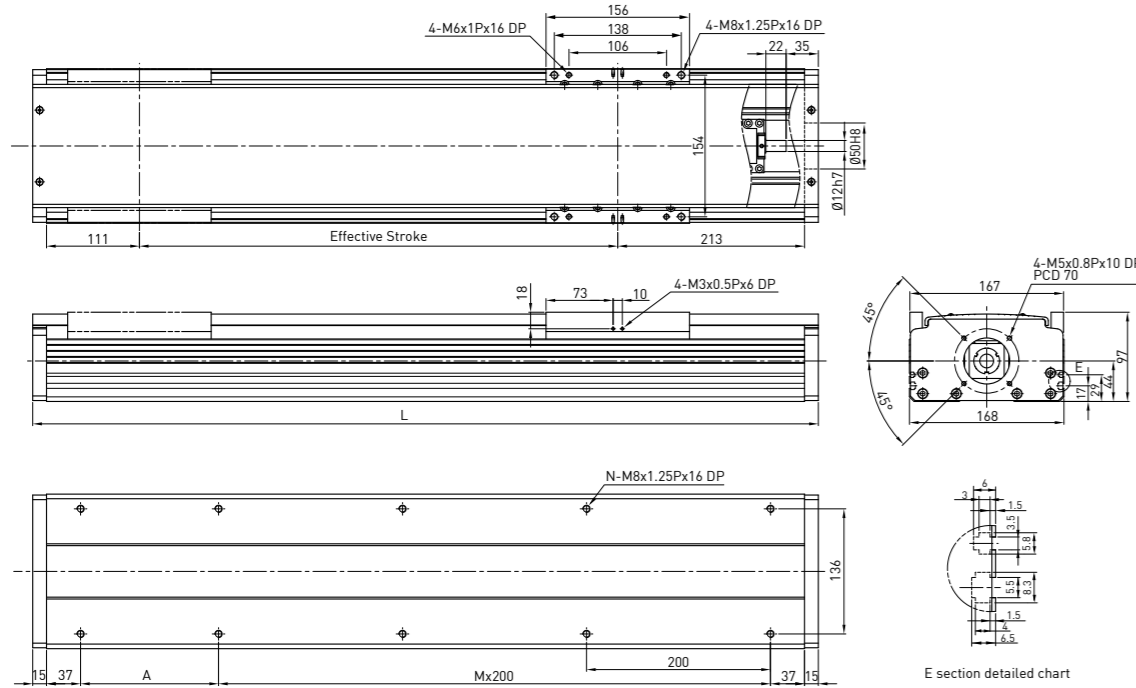


Model Number of KA170 Type

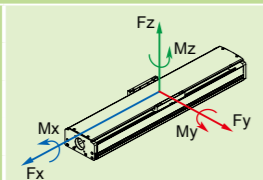
KA170	-20	P	-1250	A	F0	S1
Model	Lead	Accuracy Grade	Effective Stroke	Load Type	Flange F0	Limit Sensors
	10 mm 20 mm	P: Precision C: Normal	150-1250 (50mm Pitch)	A: Standard H: Heavy Load	400W 750W	S1: Omron SX-671 S2: Omron SX-674 S3: Sunx GL-12F S4: Sunx GL-N12F-PX10 None: Without Sensor

Dimensions for KA170



Effective Stroke (mm)	L	A	M	N
150	504	200	1	6
200	554	50	2	8
250	604	100	2	8
300	654	150	2	8
350	704	200	2	8
400	754	50	3	10
450	804	100	3	10
500	854	150	3	10
550	904	200	3	10
600	954	50	4	12
650	1004	100	4	12
700	1054	150	4	12
750	1104	200	4	12
800	1154	50	5	14
850	1204	100	5	14
900	1254	150	5	14
950	1304	200	5	14
1000	1354	50	6	16
1050	1404	100	6	16
1100	1454	150	6	16
1150	1504	200	6	16
1200	1554	50	7	18
1250	1604	100	7	18

AC motor output	W	400
Drive		Ball screw
Lead	mm	10 20
Max linear speed*	mm/sec	400 800
Max RPM	RPM	2400 2400
Rated thrust	N	936 468
Repeatability	mm	±0.02
Effective Stroke	mm	150 ~1250
Rated dynamic load**	F <sub>yd</sub>	N 1324
	F <sub>zd</sub>	N 2367
	M <sub>xd</sub>	N-m 127.8
	M <sub>zd</sub>	N-m 92.9
Permitted load condition***	$\frac{F_y + F_z + M_x + M_y + M_z}{F_{yd} + F_{zd} + M_{xd} + M_{zd}} \leq 1$	
	F <sub>y</sub> , F <sub>z</sub> , M <sub>x</sub> , M <sub>y</sub> , M <sub>z</sub> are tested values	



\* Vibration might occur when effective stroke is longer than 800mm. The maximum speed should be decreased by 15% for every 100mm stroke increased.  
 \*\* The load condition is based on 10,000km operation.  
 \*\*\* If used on vertical axis or special condition, please contact HIWIN.

The specifications in this catalog are subject to change without notification.

# Single Axis Robot

## KA series



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# SINGLE AXIS ROBOT

## KA series

### Features

- ◆ Lightweight and high rigidity aluminum base
- ◆ Easy system installation and maintenance
- ◆ Complete selection of accessories for most applications
- ◆ Compact
- ◆ Customized

### Applications

- ◆ Precision industry
- ◆ FPD industry
- ◆ Conveying equipment
- ◆ Inspection & testing equipment
- ◆ Assembly equipment



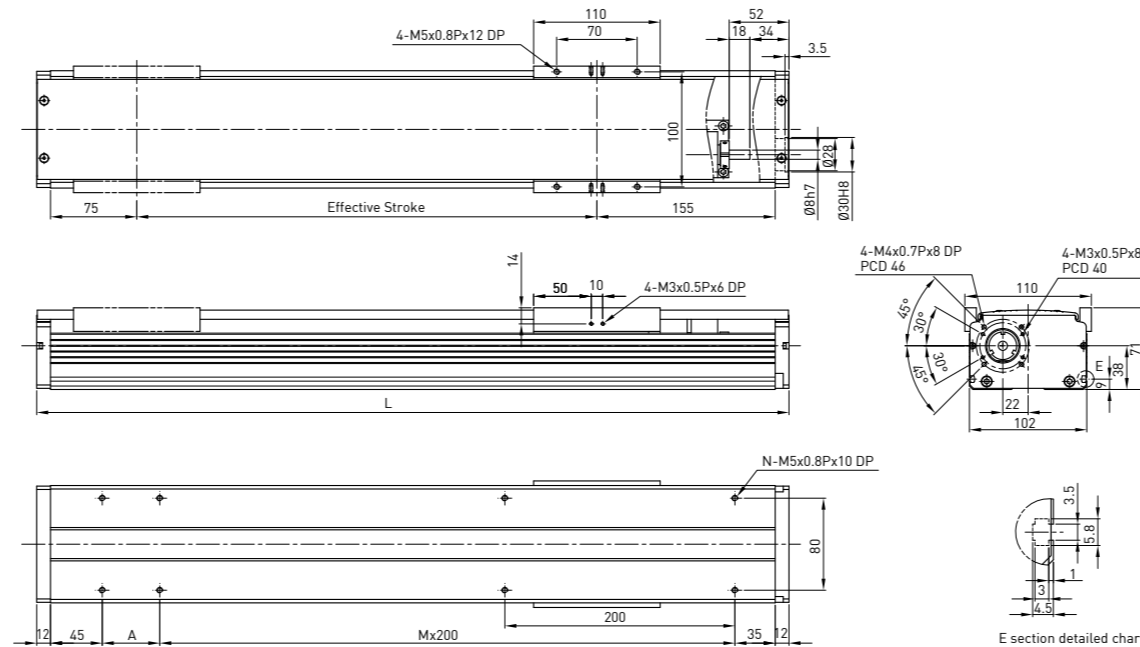
### KA Series Specification

Model No.	Motor	Lead	Repeatability	Stroke	Max. Speed	Max. Load (horizontal)	Max. Load (vertical)	
		mm			mm	RPM	Kg	Kg
KA100	30	5	±0.02	100-1050	3150	61	20	
		10			3150	42	12	
		20			3150	21	4	
KA136	30	5	±0.02	100-1050	3150	120	40	
		50			10	3150	84	23
					200	3150	42	8
					400	3150	42	8
KA170	400	10	±0.02	150-1250	2400	221	61	
		20			2400	110	22	

### Model Number of KA100 Type

KA100	-20	P	-1050	A	F0	S1
Model	Lead	Accuracy Grade	Effective Stroke	Load Type	Flange F0	Limit Sensors
	5 mm 10 mm 20 mm	P: Precision C: Normal	100-1050 (50mm Pitch)	A: Standard	30W 50W 100W	S1: Omron SX-671 S2: Omron SX-674 S3: Sunx GL-12F S4: Sunx GL-N12F-PX10 None: Without Sensor

### Dimensions for KA100 (Light Load)



Effective Stroke (mm)	L	A	M	N
100	354	50	1	6
150	404	100	1	6
200	454	150	1	6
250	504	200	1	6
300	554	50	2	8
350	604	100	2	8
400	654	150	2	8
450	704	200	2	8
500	754	50	3	10
550	804	100	3	10
600	854	150	3	10
650	904	200	3	10
700	954	50	4	12
750	1004	100	4	12
800	1054	150	4	12
850	1104	200	4	12
900	1154	50	5	14
950	1204	100	5	14
1000	1254	150	5	14
1050	1304	200	5	14

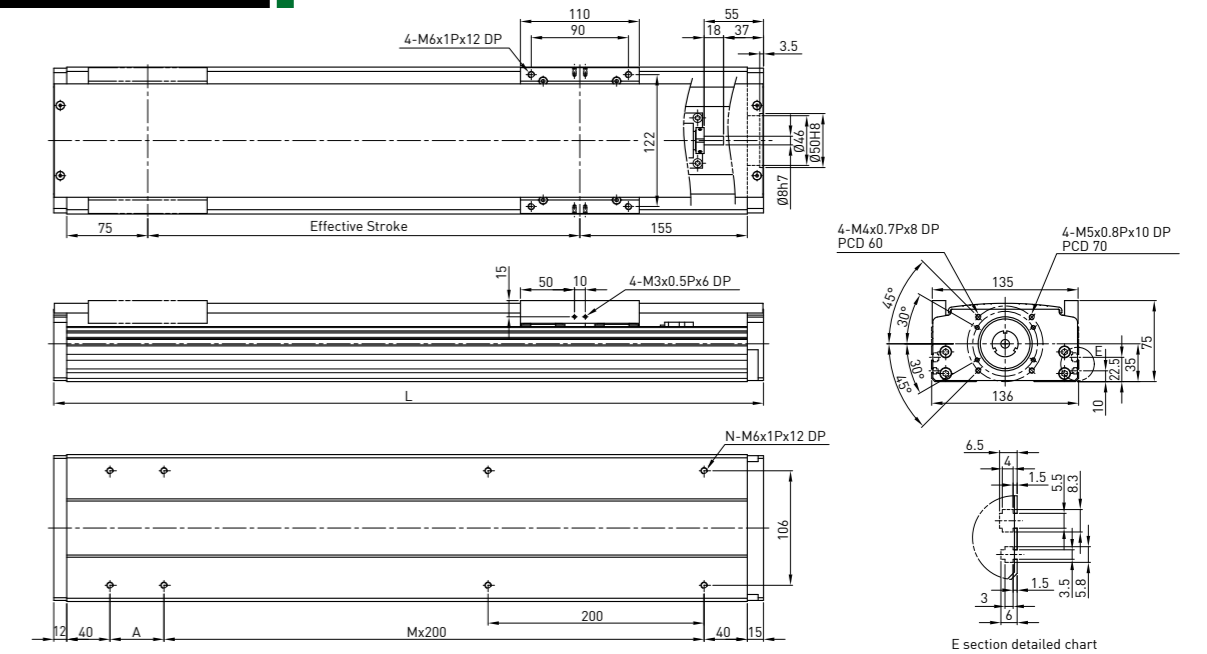
AC motor output	W	100
Drive		Ballscrew
Lead	mm	5 10 20
Max linear speed*	mm/sec	263 525 1050
Max RPM	RPM	3150 3150 3150
Rated thrust	N	356 178 89
Repeatability	mm	±0.02
Effective Stroke	mm	100-1050
Rated dynamic load**	F <sub>yd</sub>	N 232
	F <sub>zd</sub>	N 397
	M <sub>xd</sub>	N-m 12.5
	M <sub>zd</sub>	N-m 12.6
Permitted load condition***	$\frac{F_y + F_z + M_x + M_y + M_z}{F_{yd} + F_{zd} + M_{xd} + M_{zd}} \leq 1$	
	F <sub>y</sub> , F <sub>z</sub> , M <sub>x</sub> , M <sub>y</sub> , M <sub>z</sub> are tested values	

\* Vibration might occur when effective stroke is longer than 700mm. The maximum speed should be decreased by 15% for every 100mm stroke increased.  
 \*\* The load condition is based on 10,000km operation.  
 \*\*\* If used on vertical axis or special condition, please contact HIWIN.

### Model Number of KA136 Type

KA136	-20	P	-1050	A	F0	S1
Model	Lead	Accuracy Grade	Effective Stroke	Load Type	Flange F0	Limit Sensors
	5 mm 10 mm 20 mm	P: Precision C: Normal	100-1050 (50mm Pitch)	A: Standard H: Heavy Load	200W 400W	S1: Omron SX-671 S2: Omron SX-674 S3: Sunx GL-12F S4: Sunx GL-N12F-PX10 None: Without Sensor

### Dimensions for KA136



Effective Stroke (mm)	L	A	M	N
100	357	50	1	6
150	407	100	1	6
200	457	150	1	6
250	507	200	1	6
300	557	50	2	8
350	607	100	2	8
400	657	150	2	8
450	707	200	2	8
500	757	50	3	10
550	807	100	3	10
600	857	150	3	10
650	907	200	3	10
700	957	50	4	12
750	1007	100	4	12
800	1057	150	4	12
850	1107	200	4	12
900	1157	50	5	14
950	1207	100	5	14
1000	1257	150	5	14
1050	1307	200	5	14

AC motor output	W	200
Drive		Ballscrew
Lead	mm	5 10 20
Max linear speed*	mm/sec	263 525 1050
Max RPM	RPM	3150 3150 3150
Rated thrust	N	712 356 178
Repeatability	mm	±0.02
Effective Stroke	mm	100-1050
Rated dynamic load**	F <sub>yd</sub>	N 448
	F <sub>zd</sub>	N 712
	M <sub>xd</sub>	N-m 30.1
	M <sub>zd</sub>	N-m 24.2
Permitted load condition***	$\frac{F_y + F_z + M_x + M_y + M_z}{F_{yd} + F_{zd} + M_{xd} + M_{zd}} \leq 1$	
	F <sub>y</sub> , F <sub>z</sub> , M <sub>x</sub> , M <sub>y</sub> , M <sub>z</sub> are tested values	

\* Vibration might occur when effective stroke is longer than 700mm. The maximum speed should be decreased by 15% for every 100mm stroke increased.  
 \*\* The load condition is based on 10,000km operation.  
 \*\*\* If used on vertical axis or special condition, please contact HIWIN.