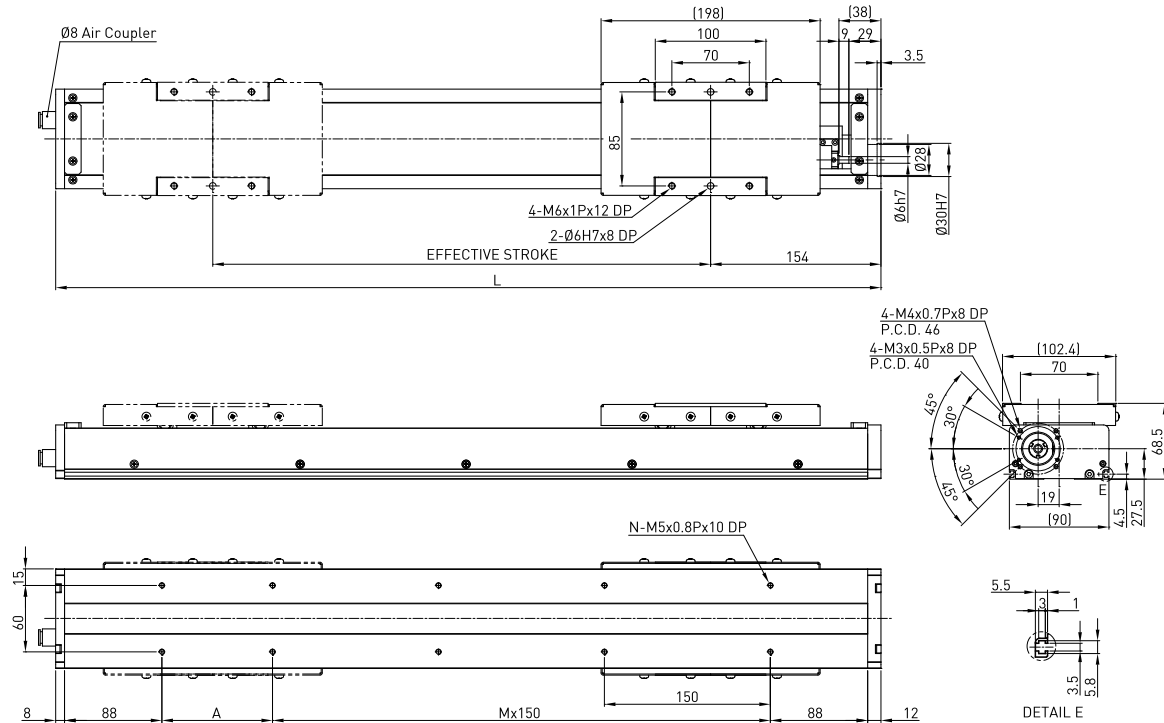


6.3 KS Series

Model Number for KS090

KS090	-10	P	-0600	A	F0	S1	M101
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	5mm 10mm	P: Precision C: Normal		A: Standard	F0: Direct	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M05□, K05□ M10□, K10□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor

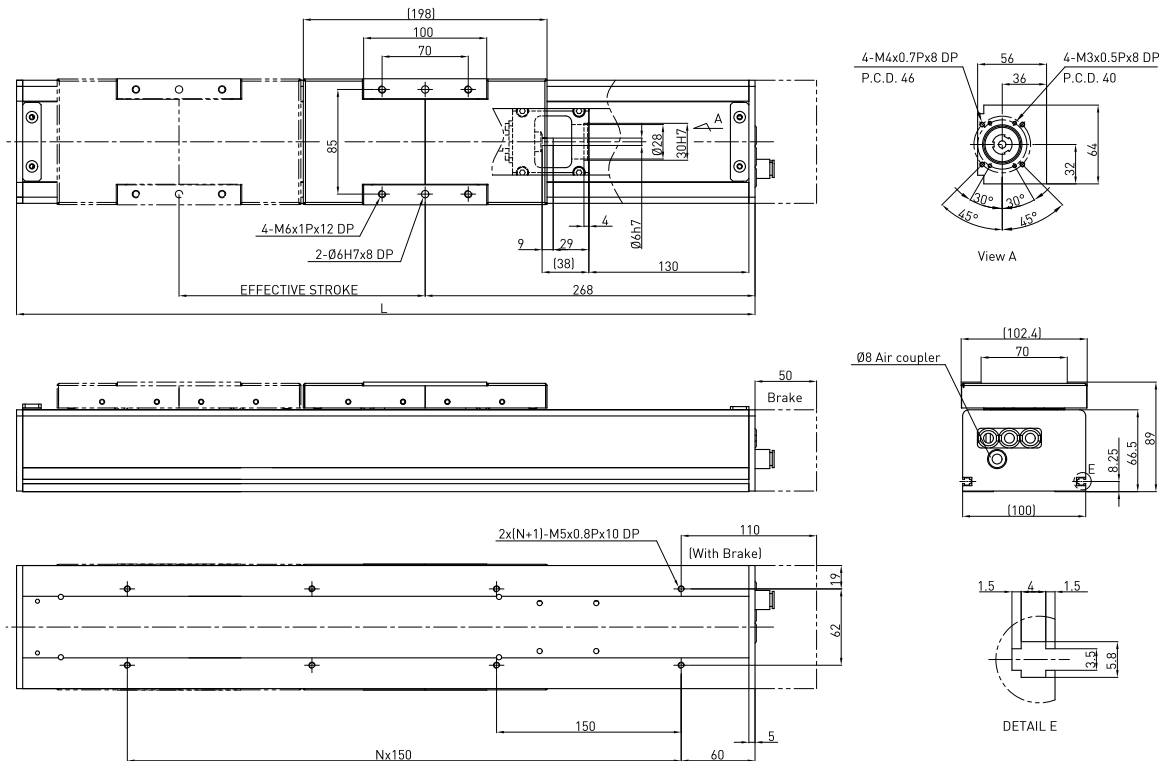


Effective stroke (mm)	L	A	M	N	Weight (kg)	AC motor output Drive	W	100	
50	346	150	0	4	3.38	Lead	mm	5 10	
100	396	50	1	6	3.78	Rated RPM	RPM	3000 3000	
150	446	100	1	6	4.18	Max linear speed*	mm/sec	250 500	
200	496	150	1	6	4.58	Rated thrust	N	280 140	
250	546	50	2	8	4.98	Repeatability	mm	±0.02	
300	596	100	2	8	5.38	Effective stroke	mm	50~600	
350	646	150	2	8	5.78	Max load (H)	kg	24 12	
400	696	50	3	10	6.18		Fyd	N	50 50
450	746	100	3	10	6.58		Fzd	N	240 120
500	796	150	3	10	7.19		Mxd	N-m	5 4.5
550	846	50	4	12	7.38		Myd	N-m	2.3 2.1
600	896	100	4	12	7.78		Mzd	N-m	2.3 2.1
							Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads	

* Vibration might occur when the effective stroke is longer than 650mm.
 The maximum speed should be decreased by 15% for every 100mm of increased stroke.
 ** The load condition is based on 10,000km operation.
 *** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS100-FI

KS100	-20	P	-800	A	FI	S2	M101
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FI: Internal	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M05□, K05□ M10□, K10□ Motor specification: ref. catalof P.167 M:customer specified None:Without Motor

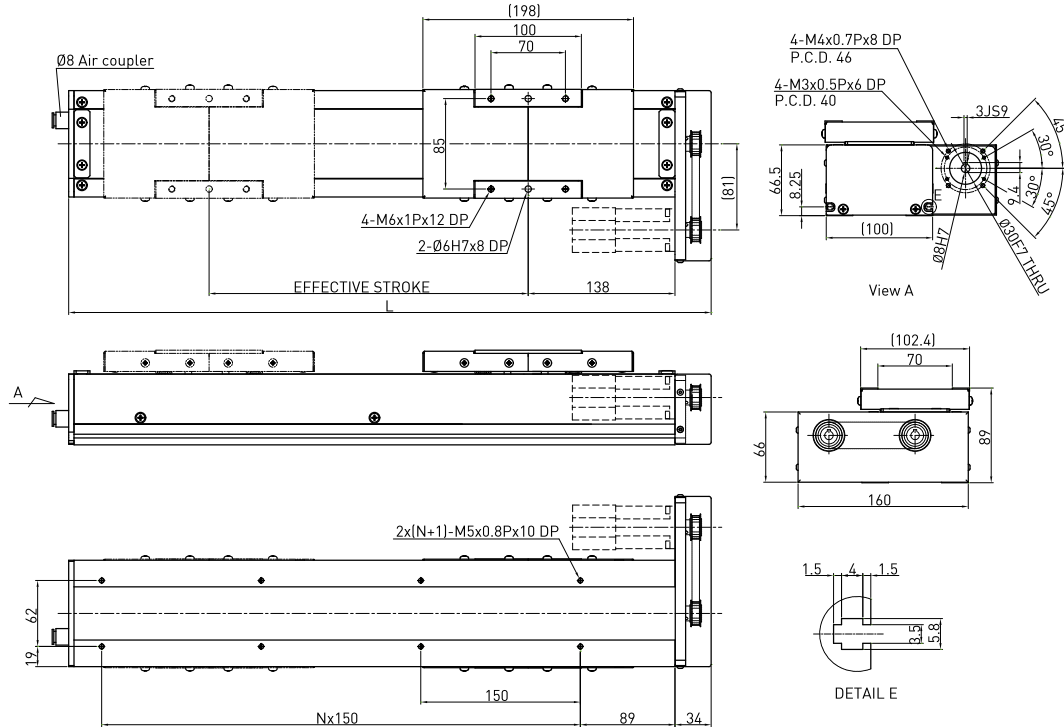


Effective stroke (mm)	L	N	Weight (kg)	AC motor output Drive	W	100				
200	600	3	9.1	Lead	mm	5	10	20		
300	700	4	9.8	Rated RPM	RPM	3000	3000	3000		
400	800	4	10.5	Max linear speed*	mm/sec	250	500	1000		
500	900	5	11.2	Rated thrust	N	280	140	70		
600	1000	6	11.9	Repeatability	mm	±0.02				
700	1100	6	12.6	Effective stroke	mm	200-800				
800	1200	7	13.3	Max load (H)	kg	8	6	3.5		
				Rated dynamic load**		F _{yd}	N	20	20	20
						F _{zd}	N	80	60	35
				Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ F _y , F _z , M _x , M _y , M _z are working loads	M _{xd}	N-m	1.1	1.2	1.1
						M _{yd}	N-m	0.9	0.9	0.9
					M _{zd}	N-m	0.9	0.9	0.9	

* Vibration might occur when the effective stroke is longer than 650mm.
 The maximum speed should be decreased by 15% for every 100mm of increased stroke.
 ** The load condition is based on 10,000km operation.
 *** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS100-FL

KS100	-20	P	-800	A	FL	S2	M101
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FL: Left	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M05□, K05□ M10□, K10□ Motor specification: ref. catalof P.167 M:customer specified None:Without Motor

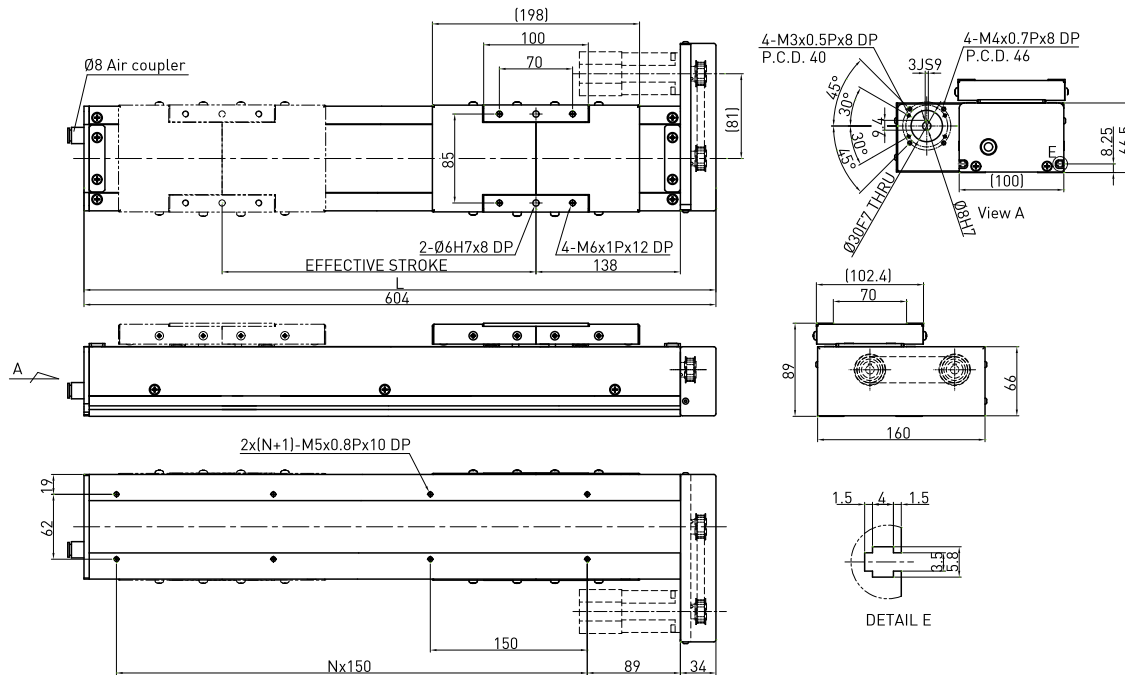


Effective stroke (mm)	L	N	Weight (kg)	AC motor output Drive	W	100 Ballscrew C7(normal)			
200	504	2	6.0	Lead	mm	5	10	20	
300	604	3	6.9	Rated RPM	RPM	3000	3000	3000	
400	704	3	7.8	Max linear speed*	mm/sec	250	500	1000	
500	804	4	8.7	Rated thrust	N	280	140	70	
600	904	5	9.6	Repeatability	mm	±0.02			
700	1004	5	10.5	Effective stroke	mm	200-800			
800	1104	6	11.4	Max load (H)	kg	8	6	3.5	
					Fyd	N	20	20	20
					Fzd	N	80	60	35
					Mxd	N-m	1.1	1.2	1.1
					Myd	N-m	0.9	0.9	0.9
					Mzd	N-m	0.9	0.9	0.9
				Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads				

* Vibration might occur when the effective stroke is longer than 650mm.
The maximum speed should be decreased by 15% for every 100mm of increased stroke.
** The load condition is based on 10,000km operation.
*** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS100-FR

KS100	-20	P	-800	A	FR	S2	M101
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FR: Right	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M05□, K05□ M10□, K10□ Motor specification: ref. catalof P.167 M:customer specified None:Without Motor

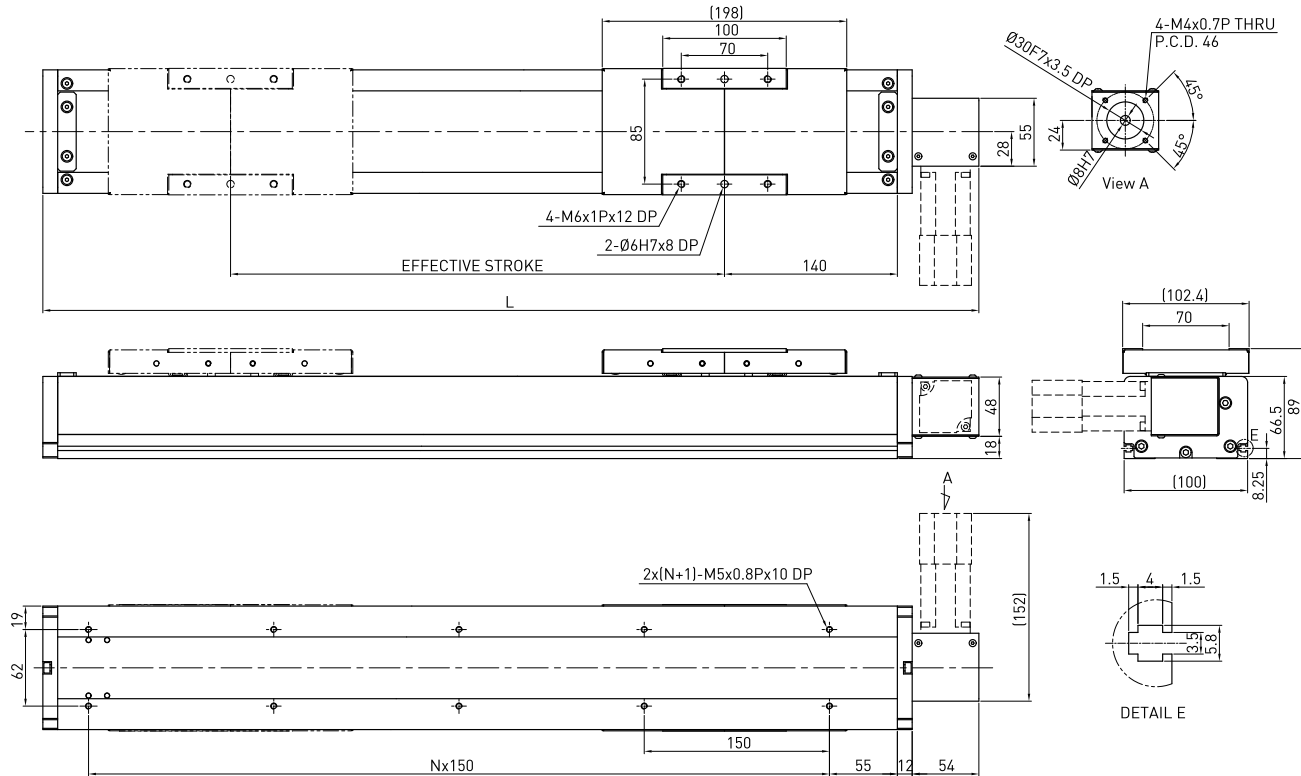


Effective stroke (mm)	L	N	Weight (kg)	AC motor output			W		
				Drive	Lead	Rated RPM	mm	mm	mm
200	504	2	6.0	Ballscrew C7(normal)	5	3000	5	10	20
300	604	3	6.9	mm/sec	10	3000	250	500	1000
400	704	3	7.8	N	20	3000	280	140	70
500	804	4	8.7	mm	30	3000	±0.02		
600	904	5	9.6	mm	40	3000	200-800		
700	1004	5	10.5	kg	50	3000			
800	1104	6	11.4	N	60	3000			
				N-m	70	3000			
				N-m	80	3000			
				N-m	90	3000			
				N-m	100	3000			
				N-m	110	3000			
				N-m	120	3000			
				N-m	130	3000			
				N-m	140	3000			
				N-m	150	3000			
				N-m	160	3000			
				N-m	170	3000			
				N-m	180	3000			
				N-m	190	3000			
				N-m	200	3000			
				N-m	210	3000			
				N-m	220	3000			
				N-m	230	3000			
				N-m	240	3000			
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				N-m	260	3000			
				N-m	270	3000			
				N-m	280	3000			
				N-m	290	3000			
				N-m	300	3000			
				N-m	310	3000			
				N-m	320	3000			
				N-m	330	3000			
				N-m	340	3000			
				N-m	350	3000			
				N-m	360	3000			
				N-m	370	3000			
				N-m	380	3000			
				N-m	390	3000			
				N-m	400	3000			
				N-m	410	3000			
				N-m	420	3000			
				N-m	430	3000			
				N-m	440	3000			
				N-m	450	3000			
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				N-m	700	3000			
				N-m	710	3000			
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				N-m	800	3000			
				N-m	810	3000			
				N-m	820	3000			
				N-m	830	3000			
				N-m	840	3000			
				N-m	850	3000			
				N-m	860	3000			
				N-m	870	3000			
				N-m	880	3000			
				N-m	890	3000			
				N-m	900	3000			
				N-m	910	3000			
				N-m	920	3000			
				N-m	930	3000			
				N-m	940	3000			
				N-m	950	3000			
				N-m	960	3000			
				N-m	970	3000			
				N-m	980	3000			
				N-m	990	3000			
				N-m	1000	3000			

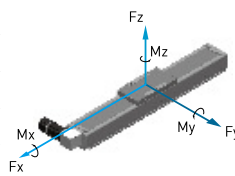
* Vibration might occur when the effective stroke is longer than 650mm.
The maximum speed should be decreased by 15% for every 100mm of increased stroke.
** The load condition is based on 10,000km operation.
*** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS100B-FL

KS100	B	-84	C	-3000	A	FL	S2	M101
Model	Timing Belt	Pulley Perimeter	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
			C: Normal		A: Standard	FL: Left	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M05□, K05□ M10□, K10□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	100	
200	558	2	6.1	Drive		Timing Belt	
400	758	4	7.6	Pulley Perimeter	mm	84	
600	958	5	9.1	Pulley RPM	RPM	1286	
800	1158	6	10.6	Max linear speed	mm/sec	1800	
1000	1358	8	12.1	Rated thrust	N	33	
1200	1558	9	13.6	Repeatability	mm	±0.1	
1400	1758	10	15.1	Effective stroke	mm	200-3000	
1600	1958	12	16.6	Max load (H)	kg	3	
1800	2158	13	18.1	Rated dynamic load*	F _{yd}	N	20
2000	2358	14	19.6		F _{zd}	N	30
2200	2558	16	21.1		M _{xd}	N-m	1.2
2400	2758	17	22.6		M _{yd}	N-m	1
2600	2958	18	24.1		M _{zd}	N-m	1
2800	3158	20	25.6		$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ F _y , F _z , M _x , M _y , M _z are working loads		
3000	3358	21	27.1	Permitted load condition**			

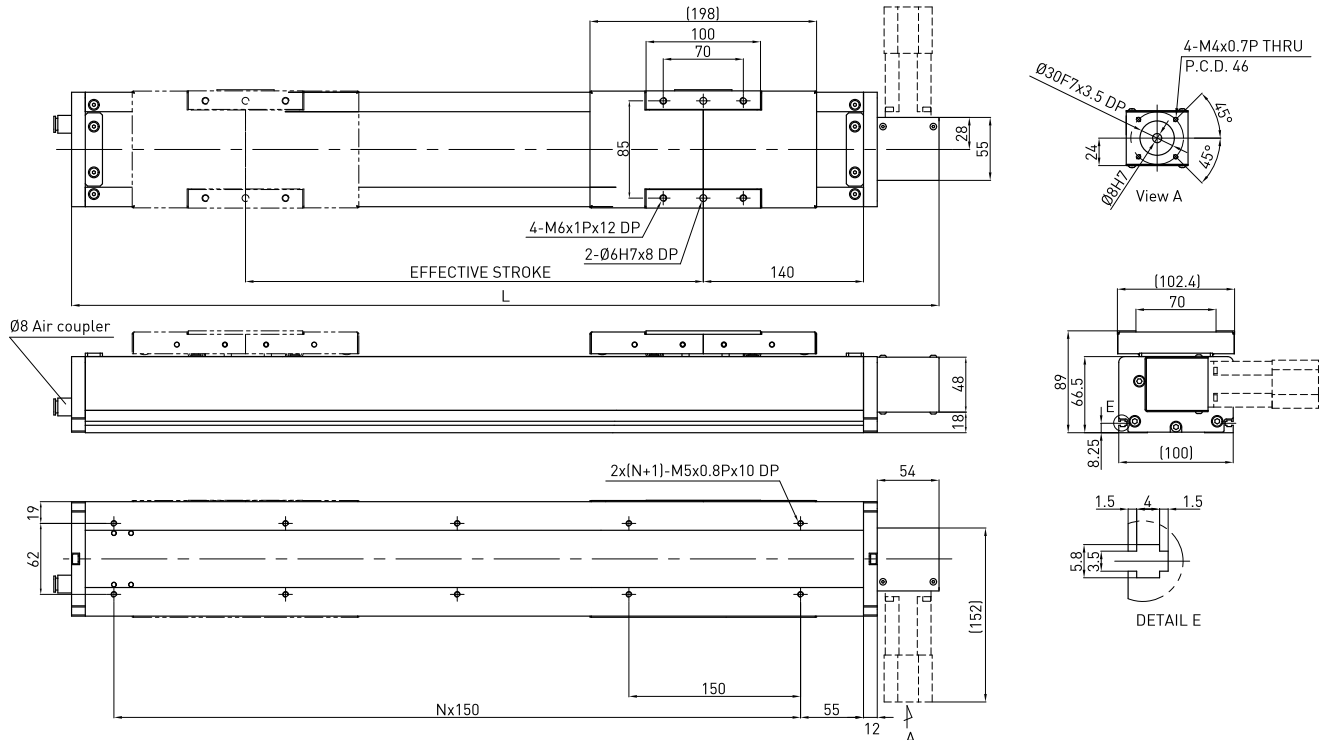


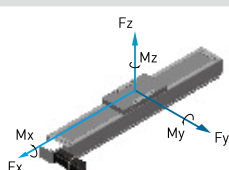
*The load condition is based on 10,000km operation.

**For horizontal applications only. If used in a special condition, please contact HIWIN.

Model Number for KS100B-FR

KS100	B	-84	C	-3000	A	FR	S2	M101
Model	Timing Belt	Pulley Perimeter	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
			C: Normal		A: Standard	FR: Right	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M05□, K05□ M10□, K10□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



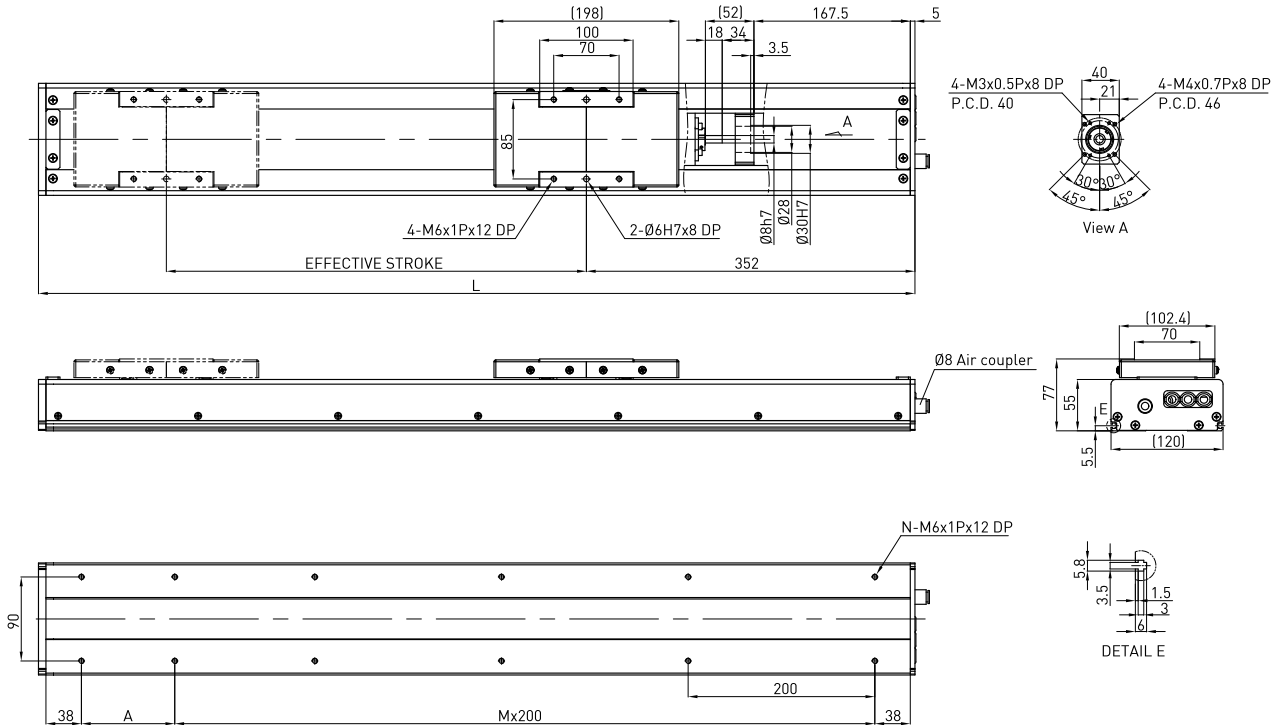
Effective stroke (mm)	L	N	Weight (kg)	AC motor output Drive	W	100													
200	558	2	6.1	Pulley Perimeter	mm	84													
400	758	4	7.6	Pulley RPM	RPM	1286													
600	958	5	9.1	Max linear speed	mm/sec	1800													
800	1158	6	10.6	Rated thrust	N	33													
1000	1358	8	12.1	Repeatability	mm	±0.1													
1200	1558	9	13.6	Effective stroke	mm	200-3000													
1400	1758	10	15.1	Max load (H)	kg	3													
1600	1958	12	16.6	<div style="display: flex; align-items: center;">  <table border="1" style="margin-left: 10px;"> <tr> <td>Fyd</td> <td>N</td> <td>20</td> </tr> <tr> <td>Fzd</td> <td>N</td> <td>30</td> </tr> <tr> <td>Mxd</td> <td>N-m</td> <td>1.2</td> </tr> <tr> <td>Myd</td> <td>N-m</td> <td>1</td> </tr> <tr> <td>Mzd</td> <td>N-m</td> <td>1</td> </tr> </table> </div>	Fyd	N	20	Fzd	N	30	Mxd	N-m	1.2	Myd	N-m	1	Mzd	N-m	1
Fyd	N	20																	
Fzd	N	30																	
Mxd	N-m	1.2																	
Myd	N-m	1																	
Mzd	N-m	1																	
1800	2158	13	18.1	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads															
2000	2358	14	19.6																
2200	2558	16	21.1																
2400	2758	17	22.6																
2600	2958	18	24.1																
2800	3158	20	25.6	Permitted load condition**															
3000	3358	21	27.1																

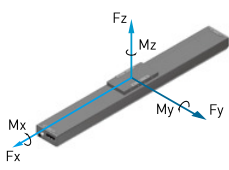
*The load condition is based on 10,000km operation.

**For horizontal applications only. If used in a special condition, please contact HIWIN.

Model Number for KS120

KS120	-20	P	-1050	A	FI	S1	M101
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	5 mm 10 mm 20 mm	P: Precision C: Normal		A: Standard	FI: Internal	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M05□, K05□ M10□, K10□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor

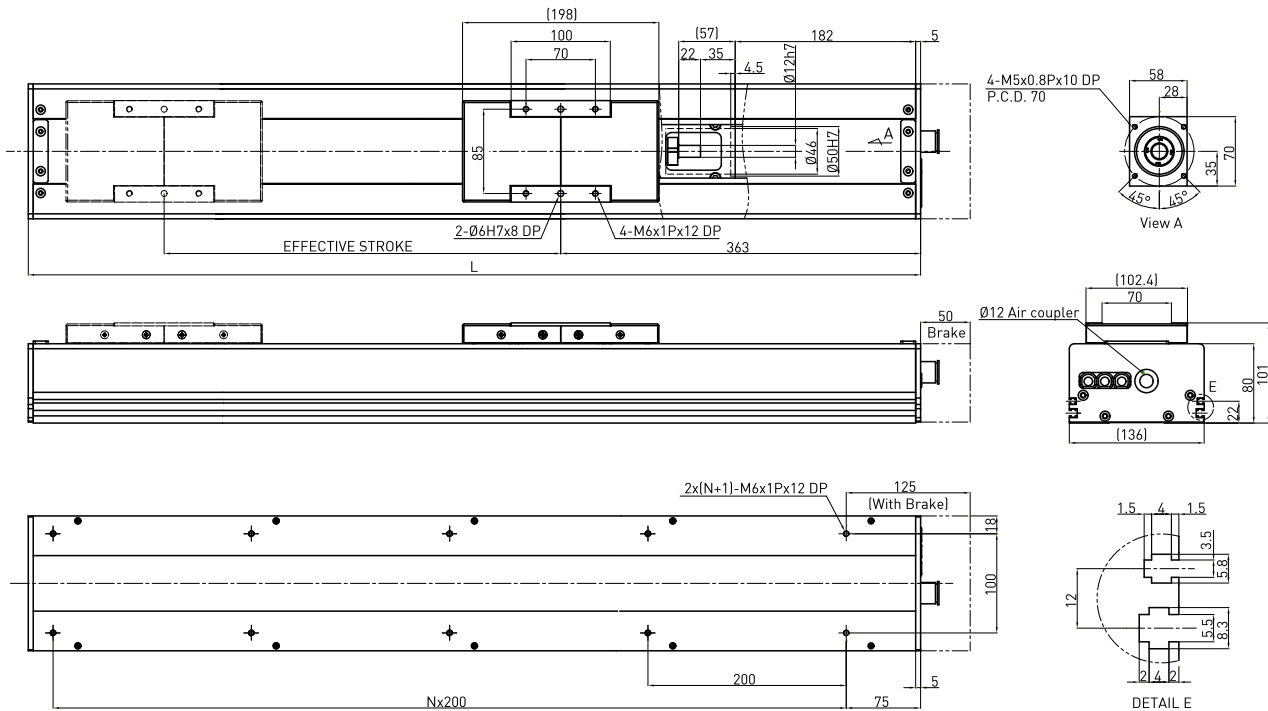


Effective stroke (mm)	L	A	M	N	Weight (kg)	AC motor output Drive	W	100	
100	589	100	2	8	6.32	Lead	mm	5 10 20	
150	639	150	2	8	6.94	Rated RPM	RPM	3000 3000 3000	
200	689	200	2	8	7.57	Max linear speed*	mm/sec	250 500 1000	
250	739	50	3	10	8.2	Rated thrust	N	280 140 70	
300	789	100	3	10	8.83	Repeatability	mm	±0.02	
350	839	150	3	10	9.46	Effective stroke	mm	100~1050	
400	889	200	3	10	10.09	Max load (H)	kg	50 32 20	
450	939	50	4	12	10.72		Fyd	N	50 50 50
500	989	100	4	12	11.35		Fzd	N	500 320 200
550	1039	150	4	12	11.98		Mxd	N-m	25 27 28
600	1089	200	4	12	12.61		Myd	N-m	20 22 23
650	1139	50	5	14	13.24		Mzd	N-m	20 22 23
700	1189	100	5	14	13.87				
750	1239	150	5	14	14.5	Permitted load condition*** $\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads			
800	1289	200	5	14	15.13				
850	1339	50	6	16	15.76				
900	1389	100	6	16	16.39				
950	1439	150	6	16	17.02				
1000	1489	200	6	16	17.65				
1050	1539	50	7	18	18.28				

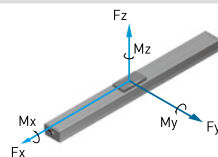
* Vibration might occur when the effective stroke is longer than 600mm.
 The maximum speed should be decreased by 15% for every 100mm of increased stroke.
 ** The load condition is based on 10,000km operation.
 *** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS140-FI

KS140	-20	P	-1100	A	FI	S2	M201
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FI: Internal	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



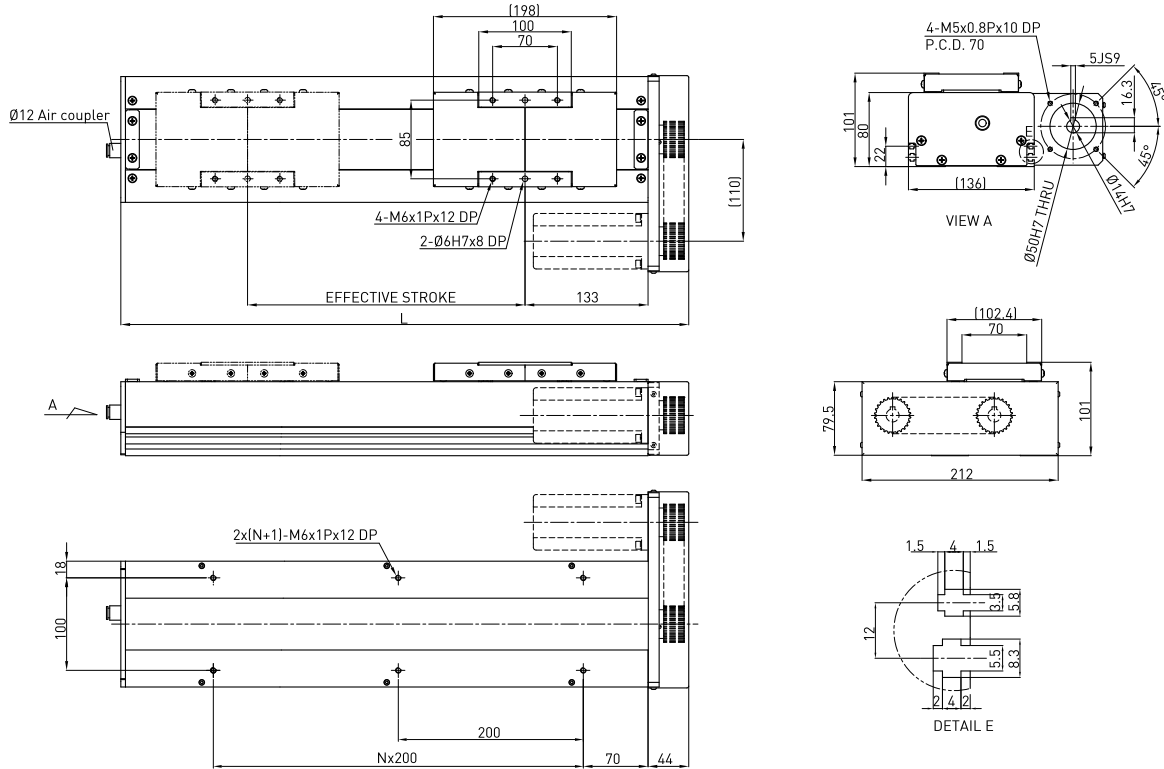
Effective stroke (mm)	L	N	Weight (kg)	AC motor output		W		
				Drive		200		
200	700	3	13.5	Lead	mm	10	20	
300	800	3	14.7	Rated RPM	RPM	3000	3000	
400	900	4	15.9	Max linear speed*	mm/sec	500	1000	
500	1000	4	17.1	Rated thrust	N	280	140	
600	1100	5	18.3	Repeatability	mm	±0.02		
700	1200	5	19.5	Effective stroke	mm	200~1100		
800	1300	6	20.7	Max load (H)	kg	75	35	
900	1400	6	21.9	Rated dynamic load**	F _{yd}	N	50	50
1000	1500	7	23.2		F _{zd}	N	750	350
1100	1600	7	24.4		M _{xd}	N-m	55	60
					M _{yd}	N-m	47	51
					M _{zd}	N-m	47	51
				Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ F _y , F _z , M _x , M _y , M _z are working loads			



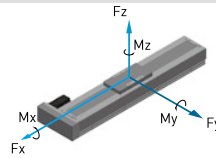
* Vibration might occur when the effective stroke is longer than 800mm.
The maximum speed should be decreased by 15% for every 100mm of increased stroke.
** The load condition is based on 10,000km operation.
*** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS140-FL

KS140	-20	P	-1100	A	FL	S2	M201
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FL: Left	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



Effective stroke (mm)	L	N	Weight (kg)	AC motor output Drive	W	
					200	
						Ballscrew C7(normal)
200	514	1	11.5	Lead	mm	10 20
300	614	2	13.0	Rated RPM	RPM	3000 3000
400	714	2	14.5	Max linear speed*	mm/sec	500 1000
500	814	3	16.0	Rated thrust	N	280 140
600	914	3	17.5	Repeatability	mm	±0.02
700	1014	4	19.0	Effective stroke	mm	200~1100
800	1114	4	20.5	Max load (H)	kg	75 35
900	1214	5	22.0	Rated dynamic load**	Fyd	N 50 50
1000	1314	5	23.5		Fzd	N 750 350
1100	1414	6	25.0		Mxd	N-m 55 60
					Myd	N-m 47 51
					Mzd	N-m 47 51
				Permitted load condition***	$\frac{Fy}{Fyd} + \frac{Fz}{Fzd} + \frac{Mx}{Mxd} + \frac{My}{Myd} + \frac{Mz}{Mzd} \leq 1$ Fy, Fz, Mx, My, Mz are working loads	



* Vibration might occur when the effective stroke is longer than 800mm.

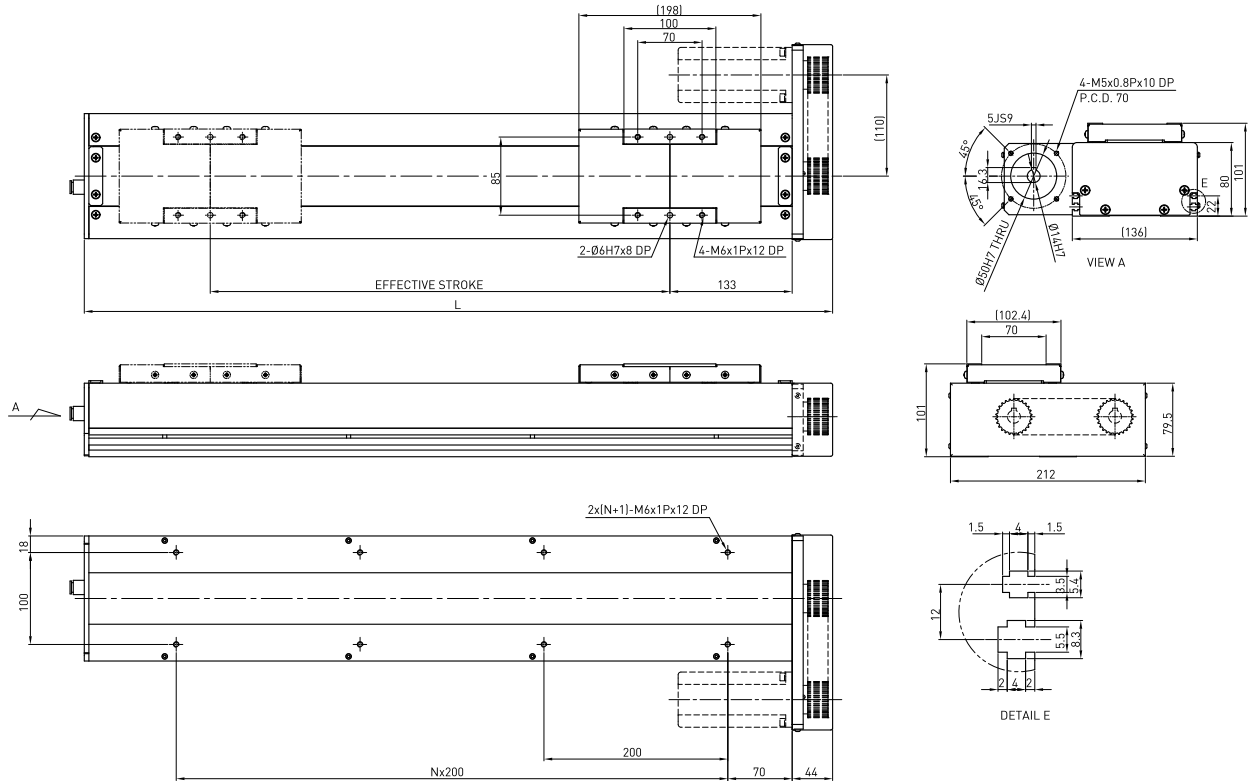
The maximum speed should be decreased by 15% for every 100mm of increased stroke.

** The load condition is based on 10,000km operation.

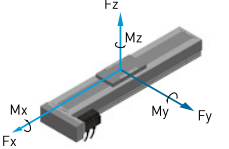
*** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS140-FR

KS140	-20	P	-1100	A	FR	S2	M201
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FR: Right	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



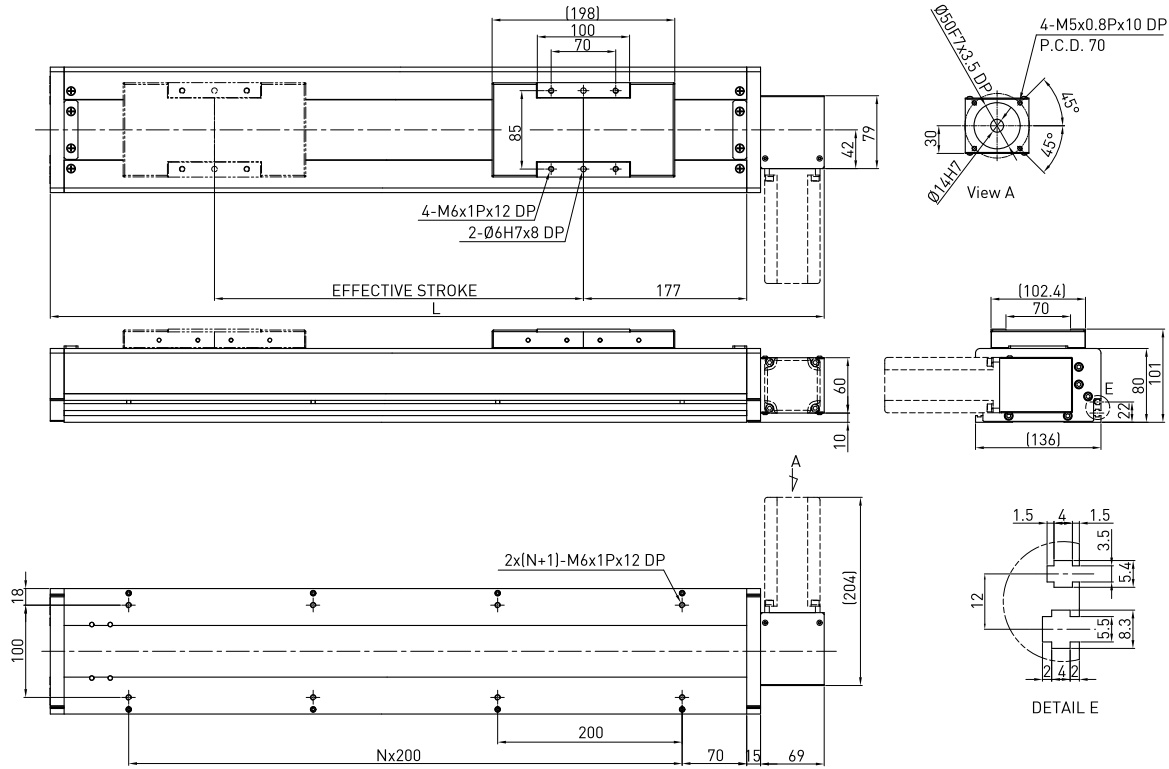
Effective stroke (mm)	L	N	Weight (kg)	AC motor output Drive	W	200
200	514	1	11.5	Lead	mm	10 20
300	614	2	13.0	Rated RPM	RPM	3000 3000
400	714	2	14.5	Max linear speed*	mm/sec	500 1000
500	814	3	16.0	Rated thrust	N	280 140
600	914	3	17.5	Repeatability	mm	±0.02
700	1014	4	19.0	Effective stroke	mm	200~1100
800	1114	4	20.5	Max load (H)	kg	75 35
900	1214	5	22.0	Rated dynamic load**	Fyd	N 50 50
1000	1314	5	23.5		Fzd	N 750 350
1100	1414	6	25.0		Mxd	N-m 55 60
					Myd	N-m 47 51
					Mzd	N-m 47 51
					Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads



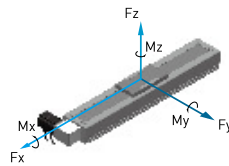
* Vibration might occur when the effective stroke is longer than 800mm.
 The maximum speed should be decreased by 15% for every 100mm of increased stroke.
 ** The load condition is based on 10,000km operation.
 *** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS140B-FL

KS140	B	-120	C	-3000	A	FL	S2	M201
Model	Timing Belt	Pulley Perimeter	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
			C: Normal		A: Standard	FL: Left	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



Effective stroke (mm)	L	N	Weight (kg)	AC motor output Drive	W	200	
200	639	2	10.4	Pulley Perimeter	mm	120	
400	839	3	12.6	Pulley RPM	RPM	900	
600	1039	4	14.8	Max linear speed	mm/sec	1800	
800	1239	5	17.0	Rated thrust	N	67	
1000	1439	6	19.2	Repeatability	mm	±0.1	
1200	1639	7	21.4	Effective stroke	mm	200-3000	
1400	1839	8	23.6	Max load (H)	kg	15	
1600	2039	9	25.8	Rated dynamic load*	F _{yd}	N	50
1800	2239	10	28.0		F _{zd}	N	150
2000	2439	11	30.2		M _{xd}	N-m	67
2200	2639	12	32.4		M _{yd}	N-m	53
2400	2839	13	34.6		M _{zd}	N-m	53
2600	3039	14	36.8		$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ F _y , F _z , M _x , M _y , M _z are working loads		
2800	3239	15	39.0	Permitted load condition**			
3000	3439	16	41.2				

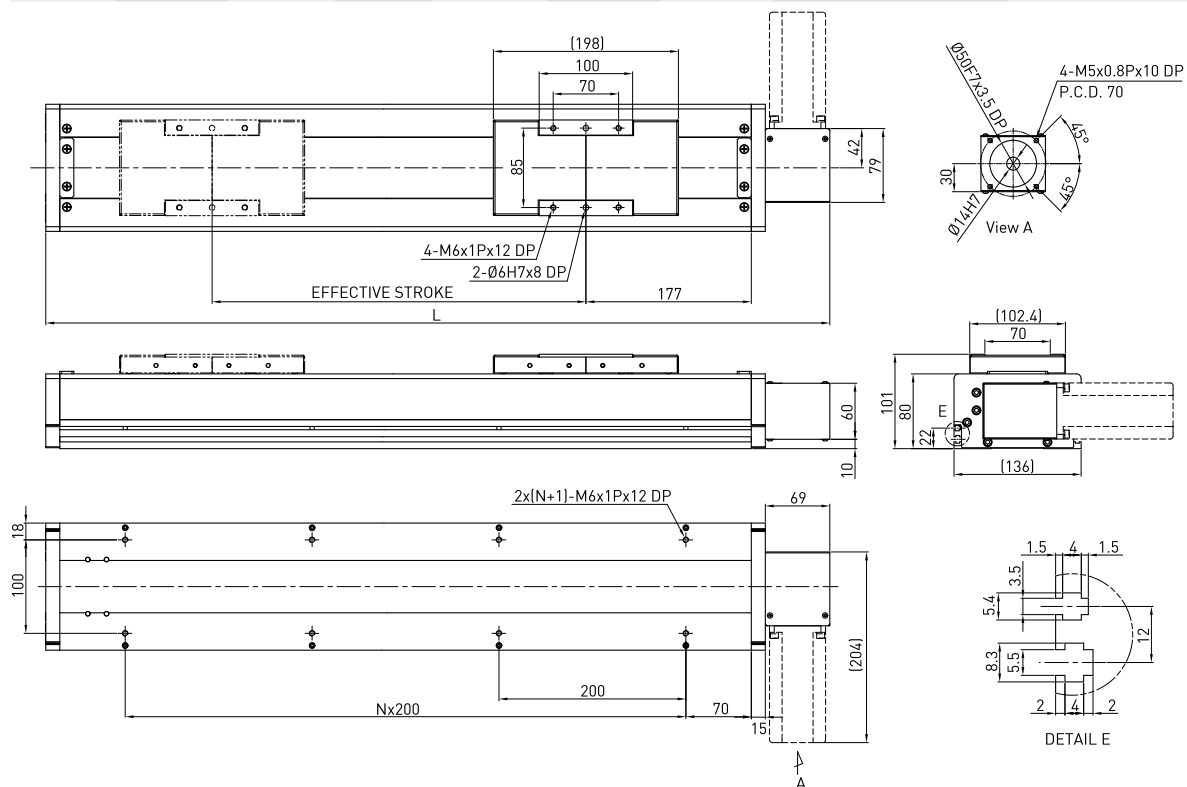


*The load condition is based on 10,000km operation.

**For horizontal applications only. If used in a special condition, please contact HIWIN.

Model Number for KS140B-FR

KS140	B	-120	C	-3000	A	FR	S2	M201
Model	Timing Belt	Pulley Perimeter	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
			C: Normal		A: Standard	FR: Right	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



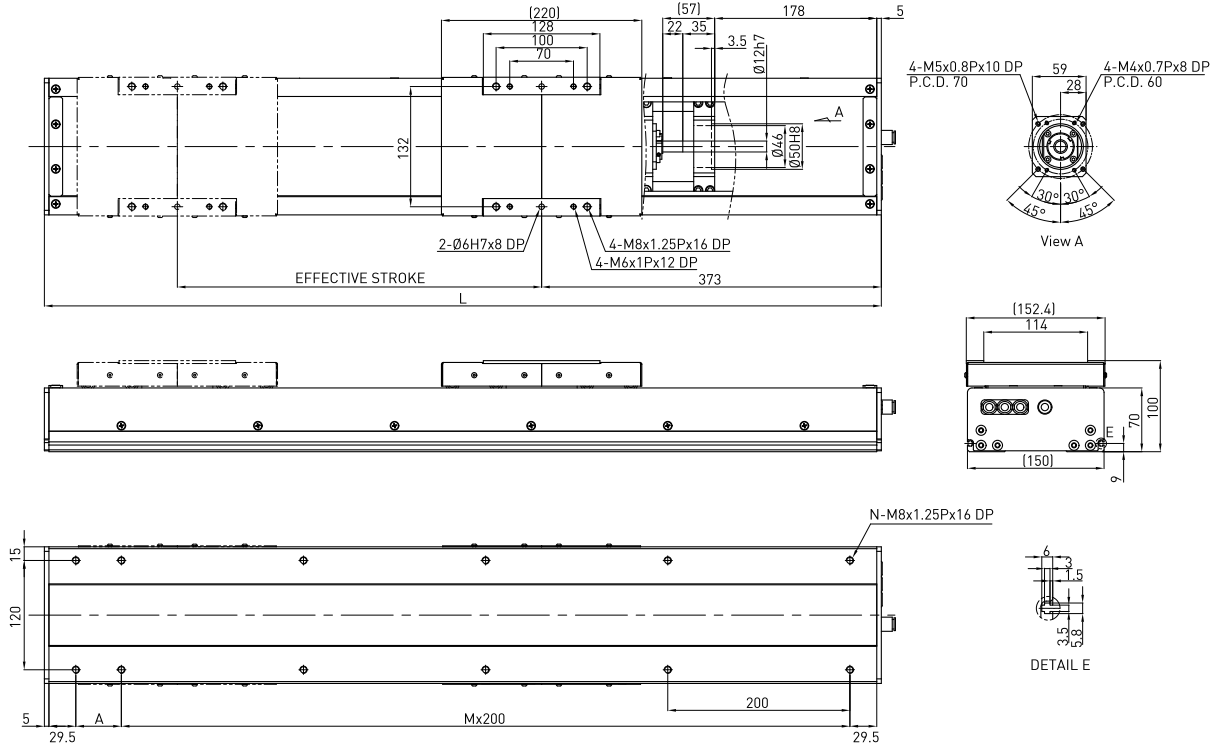
Effective stroke (mm)	L	N	Weight (kg)	AC motor output Drive	W	200	
200	639	2	10.4	Pulley Perimeter	mm	120	
400	839	3	12.6	Pulley RPM	RPM	900	
600	1039	4	14.8	Max linear speed	mm/sec	1800	
800	1239	5	17.0	Rated thrust	N	67	
1000	1439	6	19.2	Repeatability	mm	±0.1	
1200	1639	7	21.4	Effective stroke	mm	200-3000	
1400	1839	8	23.6	Max load (H)	kg	15	
1600	2039	9	25.8		Fyd	N	50
1800	2239	10	28.0		Fzd	N	150
2000	2439	11	30.2		Mxd	N-m	67
2200	2639	12	32.4		Myd	N-m	53
2400	2839	13	34.6		Mzd	N-m	53
2600	3039	14	36.8	Permitted load condition** $\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads			
2800	3239	15	39.0				
3000	3439	16	41.2				

*The load condition is based on 10,000km operation.

**For horizontal applications only. If used in a special condition, please contact HIWIN.

Model Number for KS150-FI

KS150	-10	P	-1250	A	FI	S1	M201
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10 mm 20 mm	P: Precision C: Normal		A: Standard	FI: Internal	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor

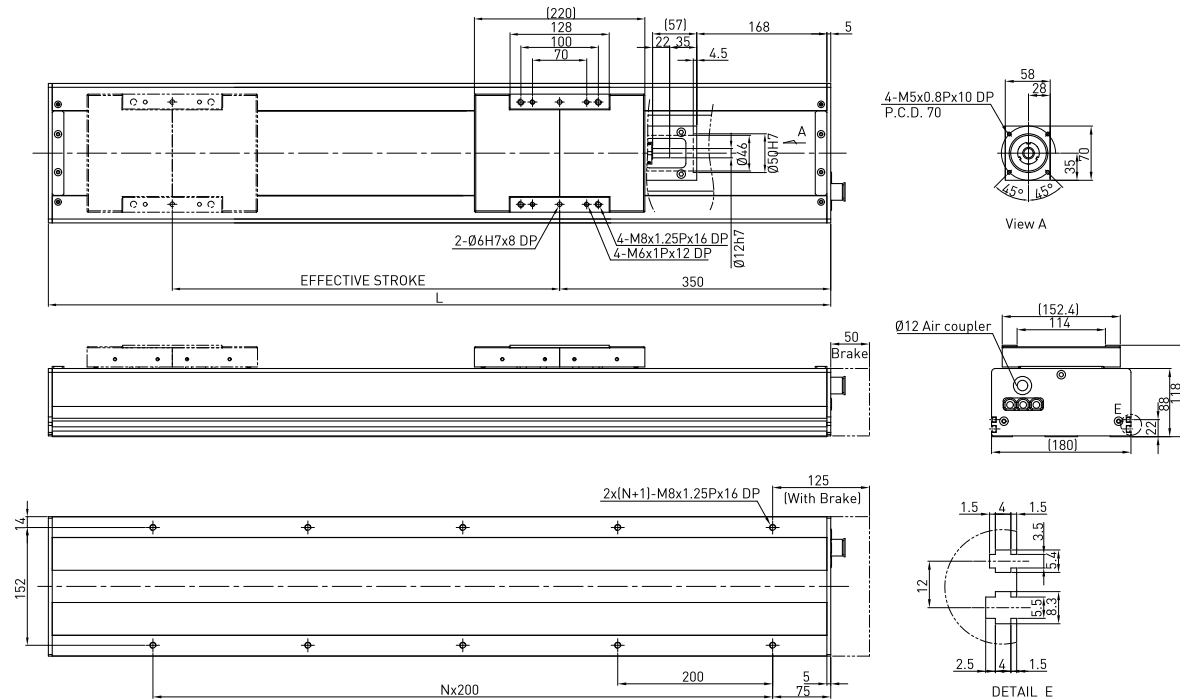


Effective stroke (mm)	L	A	M	N	Weight (kg)	AC motor output Drive	W	200	
150	669	200	2	8	13.96	Lead	mm	10 20	
200	719	50	3	10	14.84	Rated RPM	RPM	3000 3000	
250	769	100	3	10	15.72	Max linear speed*	mm/sec	500 1000	
300	819	150	3	10	16.6	Rated thrust	N	280 140	
350	869	200	3	10	17.48	Repeatability	mm	±0.02	
400	919	50	4	12	18.36	Effective stroke	mm	150~1250	
450	969	100	4	12	19.24	Max load (H)	kg	80 40	
500	1019	150	4	12	20.12		Fyd	N	50 50
550	1069	200	4	12	21		Fzd	N	800 400
600	1119	50	5	14	21.88		Mxd	N-m	56 63
650	1169	100	5	14	22.76		Myd	N-m	49 53
700	1219	150	5	14	23.64		Mzd	N-m	49 53
750	1269	200	5	14	24.52		$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$		
800	1319	50	6	16	25.4	Permitted load condition*** F _y , F _z , M _x , M _y , M _z are working loads			
850	1369	100	6	16	26.28				
900	1419	150	6	16	27.16				
950	1469	200	6	16	28.04				
1000	1519	50	7	18	28.92				
1050	1569	100	7	18	29.8				
1100	1619	150	7	18	30.68				
1150	1669	200	7	18	31.56				
1200	1719	50	8	20	32.44				
1250	1769	100	8	20	33.32				

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

Model Number for KS180-FI

KS180	-20	P	-1200	A	FI	S2	M401
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FI: Internal	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalof P.167 M:customer specified None:Without Motor

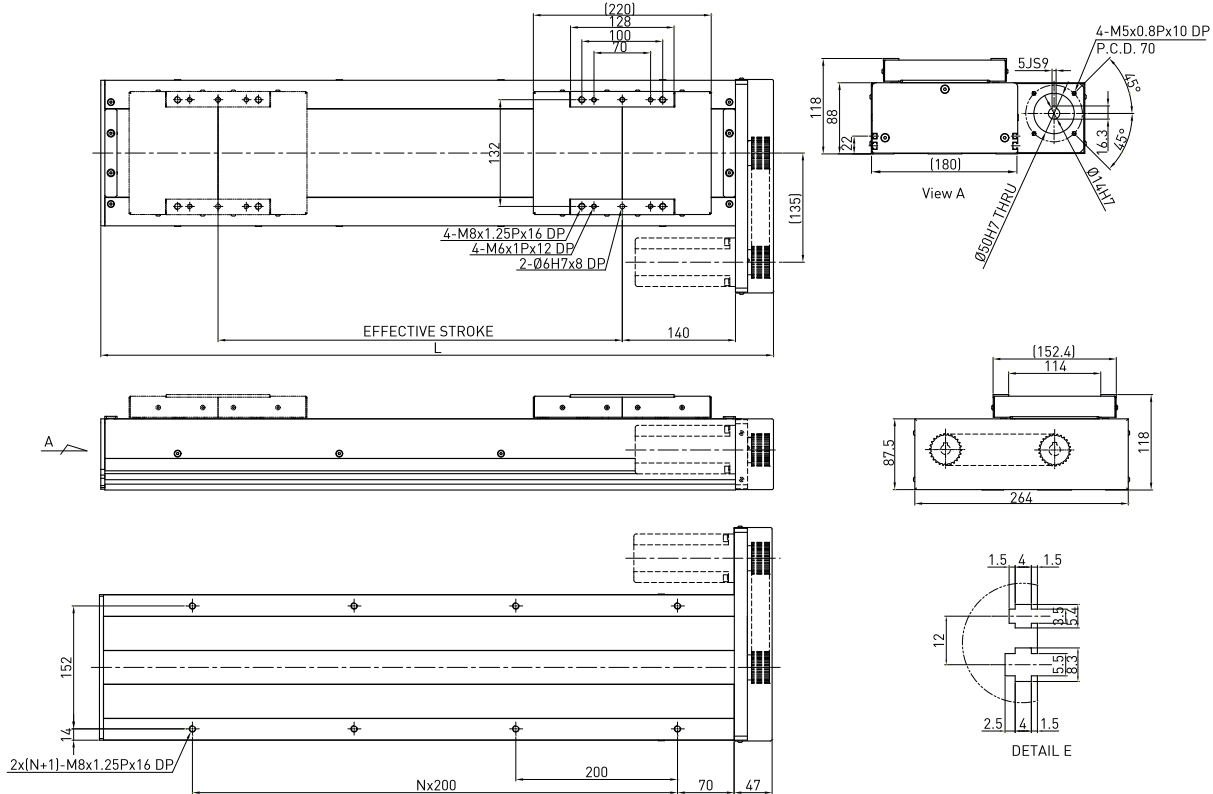


Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	400	
200	710	3	16.5	Drive	Ballscrew C7(normal)		
300	810	3	18.1	Lead	mm	10 20	
400	910	4	19.7	Rated RPM	RPM	3000 3000	
500	1010	4	21.3	Max linear speed*	mm/sec	500 1000	
600	1110	5	22.9	Rated thrust	N	560 280	
700	1210	5	24.4	Repeatability	mm	±0.02	
800	1310	6	26	Effective stroke	mm	200~1200	
900	1410	6	27.6	Max load (H)	kg	110 50	
1000	1510	7	29.2		Fyd	N	50 50
1100	1610	7	30.8		Fzd	N	1100 500
1200	1710	8	32.3		Mxd	N-m	60 65
					Myd	N-m	45 53
					Mzd	N-m	45 53
				Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads		

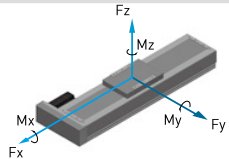
* Vibration might occur when the effective stroke is longer than 800mm.
 The maximum speed should be decreased by 15% for every 100mm of increased stroke.
 ** The load condition is based on 10,000km operation.
 *** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS180-FL

KS180	-20	P	-1200	A	FL	S2	M401
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FL: Left	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



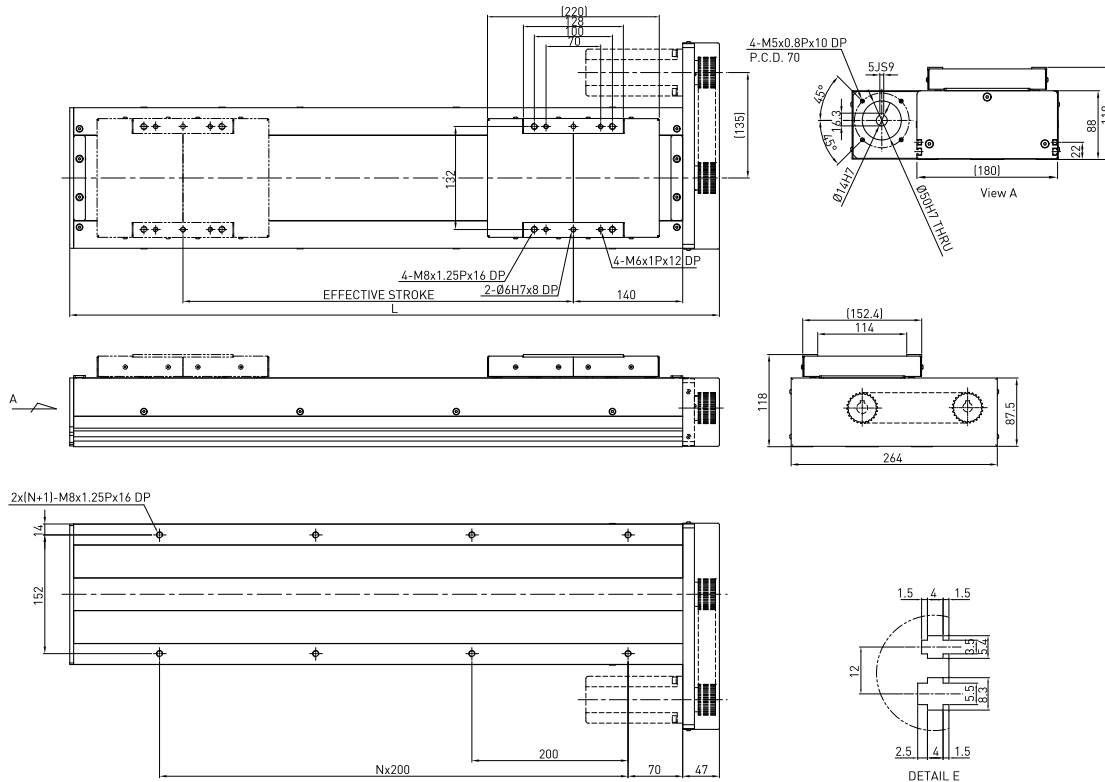
Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	400
200	532	1	11.3	Drive	Ball screw C7(normal)	
300	632	2	12.3	Lead	mm	10 20
400	732	2	13.3	Rated RPM	RPM	3000 3000
500	832	3	14.3	Max linear speed*	mm/sec	500 1000
600	932	3	15.3	Rated thrust	N	560 280
700	1032	4	16.3	Repeatability	mm	±0.02
800	1132	4	17.3	Effective stroke	mm	200~1200
900	1232	5	18.3	Max load (H)	kg	110 50
1000	1332	5	19.3	Rated dynamic load**	F _{yd}	N 50 50
1100	1432	6	20.3		F _{zd}	N 1100 500
1200	1532	6	21.3		M _{xd}	N-m 60 65
					M _{yd}	N-m 45 53
					M _{zd}	N-m 45 53
				Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ F _y , F _z , M _x , M _y , M _z are working loads	



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

Model Number for KS180-FR

KS180	-20	P	-1200	A	FR	S2	M401
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	10mm 20mm	P: Precision C: Normal		A: Standard	FR: Right	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalof P.167 M:customer specified None:Without Motor

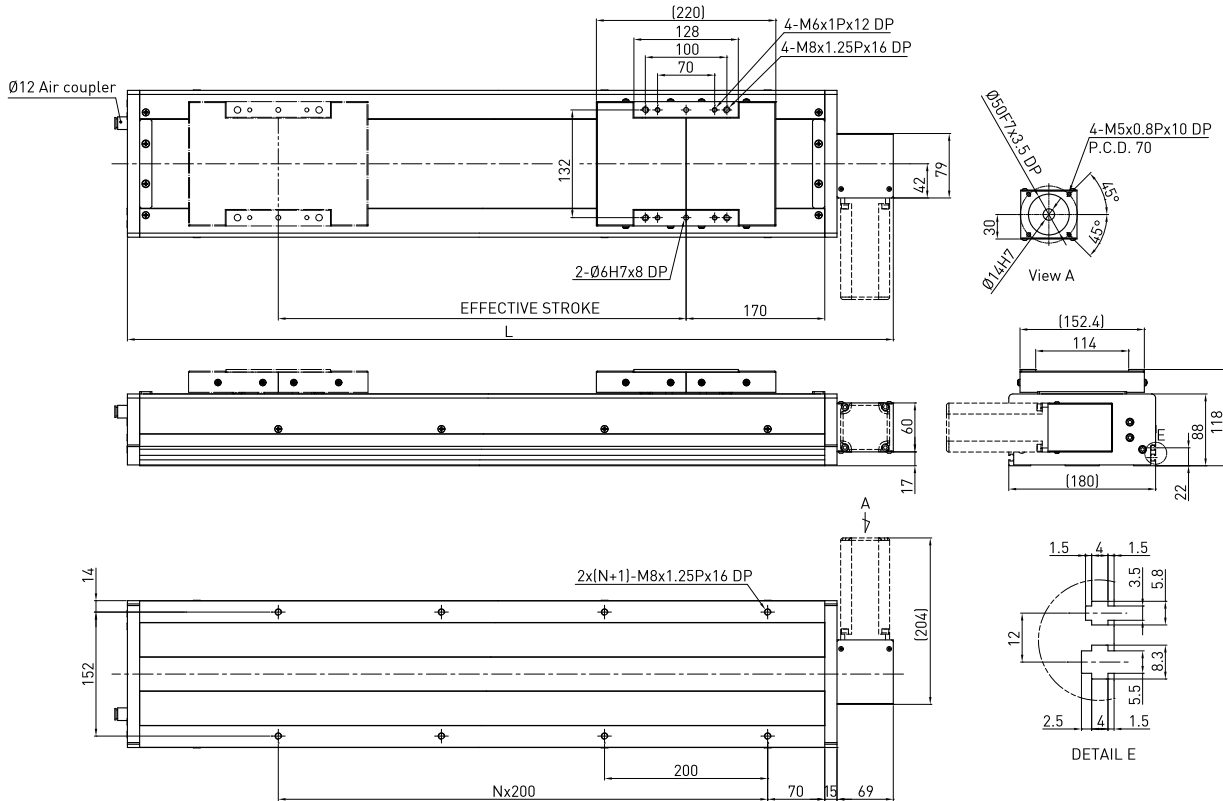


Effective stroke (mm)	L	N	Weight (kg)	AC motor output		W		400	
				Drive		Ball screw C7(normal)			
200	532	1	11.3	Lead	mm	10	20		
300	632	2	12.3	Rated RPM	RPM	3000	3000		
400	732	2	13.3	Max linear speed*	mm/sec	500	1000		
500	832	3	14.3	Rated thrust	N	560	280		
600	932	3	15.3	Repeatability	mm	±0.02			
700	1032	4	16.3	Effective stroke	mm	200-1200			
800	1132	4	17.3	Max load (H)	kg	110	50		
900	1232	5	18.3	Rated dynamic load**	F _{zd}	N	50	50	
1000	1332	5	19.3		F _{zd}	N	1100	500	
1100	1432	6	20.3		M _{xd}	N-m	60	65	
1200	1532	6	21.3		M _{yd}	N-m	45	53	
					M _{zd}	N-m	45	53	
				Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ F _y , F _z , M _x , M _y , M _z are working loads				

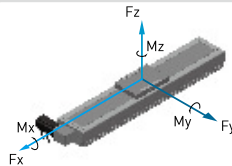
* Vibration might occur when the effective stroke is longer than 800mm.
 The maximum speed should be decreased by 15% for every 100mm of increased stroke.
 ** The load condition is based on 10,000km operation.
 *** If used on the vertical axis or in a special condition, please contact HIWIN.

Model Number for KS180B-FL

KS180	B	-120	C	-3000	A	FL	S2	M401
Model	Timing Belt	Pulley Perimeter	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
			C: Normal		A: Standard	FL: Left	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	400	
200	639	2	14.2	Drive		Timing Belt	
400	839	3	17.0	Pulley Perimeter	mm	120	
600	1039	4	19.8	Pulley RPM	RPM	900	
800	1239	5	22.6	Max linear speed	mm/sec	1800	
1000	1439	6	25.4	Rated thrust	N	133	
1200	1639	7	28.2	Repeatability	mm	±0.1	
1400	1839	8	31.0	Effective stroke	mm	200-3000	
1600	2039	9	33.8	Max load (H)	kg	30	
1800	2239	10	36.6	Rated dynamic load*	F _{yd}	N	50
2000	2439	11	39.4		F _{zd}	N	300
2200	2639	12	42.2		M _{xd}	N-m	70
2400	2839	13	45.0		M _{yd}	N-m	55
2600	3039	14	47.8		M _{zd}	N-m	55
2800	3239	15	50.6	Permitted load condition**	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$		
3000	3439	16	53.4		F _y , F _z , M _x , M _y , M _z are working loads		

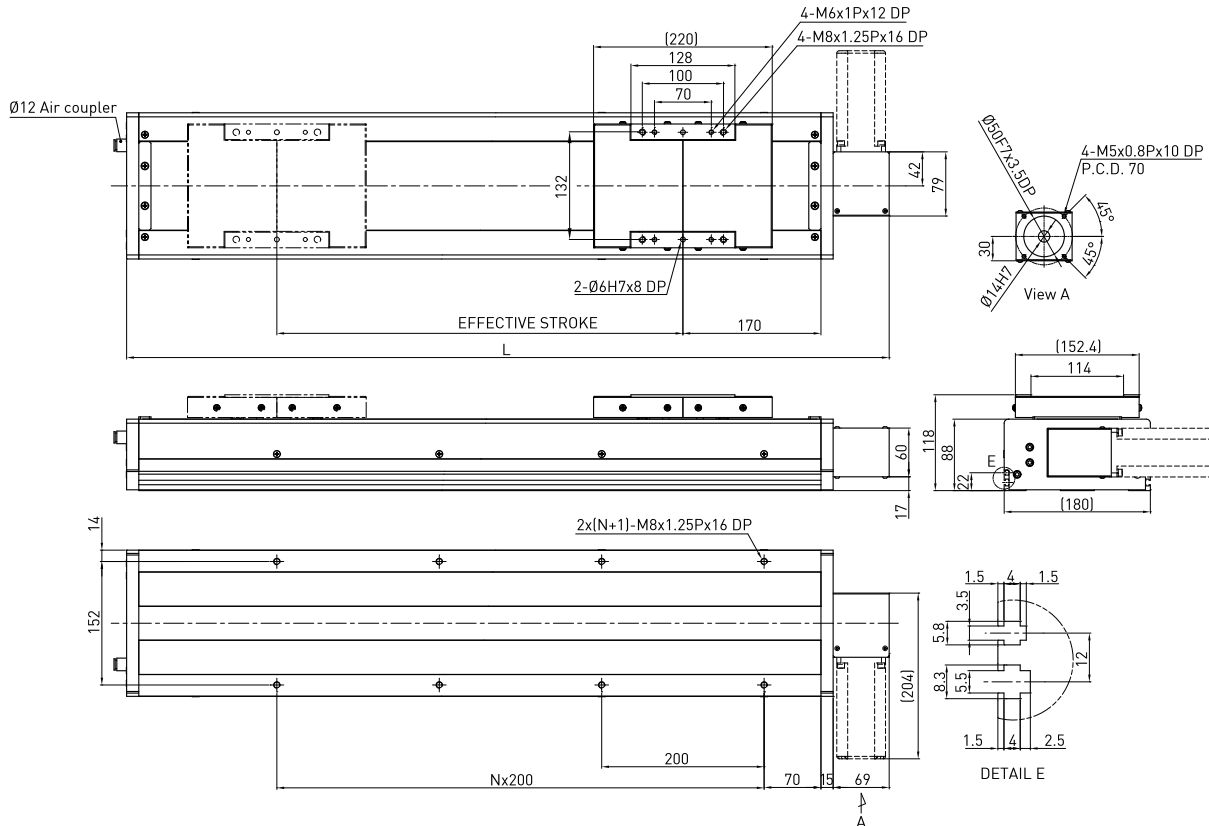


*The load condition is based on 10,000km operation.

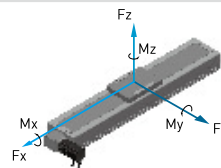
**For horizontal applications only. If used in a special condition, please contact HIWIN.

Model Number for KS180B-FR

KS180	B	-120	C	-3000	A	FR	S2	M401
Model	Timing Belt	Pulley Perimeter	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
			C: Normal		A: Standard	FR: Right	S1: OMRON SX671 S2: OMRON SX674 S3: Panasonic GX-F12A S4: Panasonic GX-F12A-P None: No Limit Switch	M20□, K20□ M40□, K40□ Motor specification: ref. catalog P.167 M:customer specified None:Without Motor



Effective stroke (mm)	L	N	Weight (kg)	AC motor output Drive	W	400	
200	639	2	14.2	Pulley Perimeter	mm	120	
400	839	3	17.0	Pulley RPM	RPM	900	
600	1039	4	19.8	Max linear speed	mm/sec	1800	
800	1239	5	22.6	Rated thrust	N	133	
1000	1439	6	25.4	Repeatability	mm	±0.1	
1200	1639	7	28.2	Effective stroke	mm	200~3000	
1400	1839	8	31.0	Max load (H)	kg	30	
1600	2039	9	33.8	Rated dynamic load*	F _{yd}	N	50
1800	2239	10	36.6		F _{zd}	N	300
2000	2439	11	39.4		M _{xd}	N-m	70
2200	2639	12	42.2		M _{yd}	N-m	55
2400	2839	13	45.0		M _{zd}	N-m	55
2600	3039	14	47.8		Permitted load condition**		
2800	3239	15	50.6	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ F _y , F _z , M _x , M _y , M _z are working loads			
3000	3439	16	53.4				



*The load condition is based on 10,000km operation.

**For horizontal applications only. If used in a special condition, please contact HIWIN.