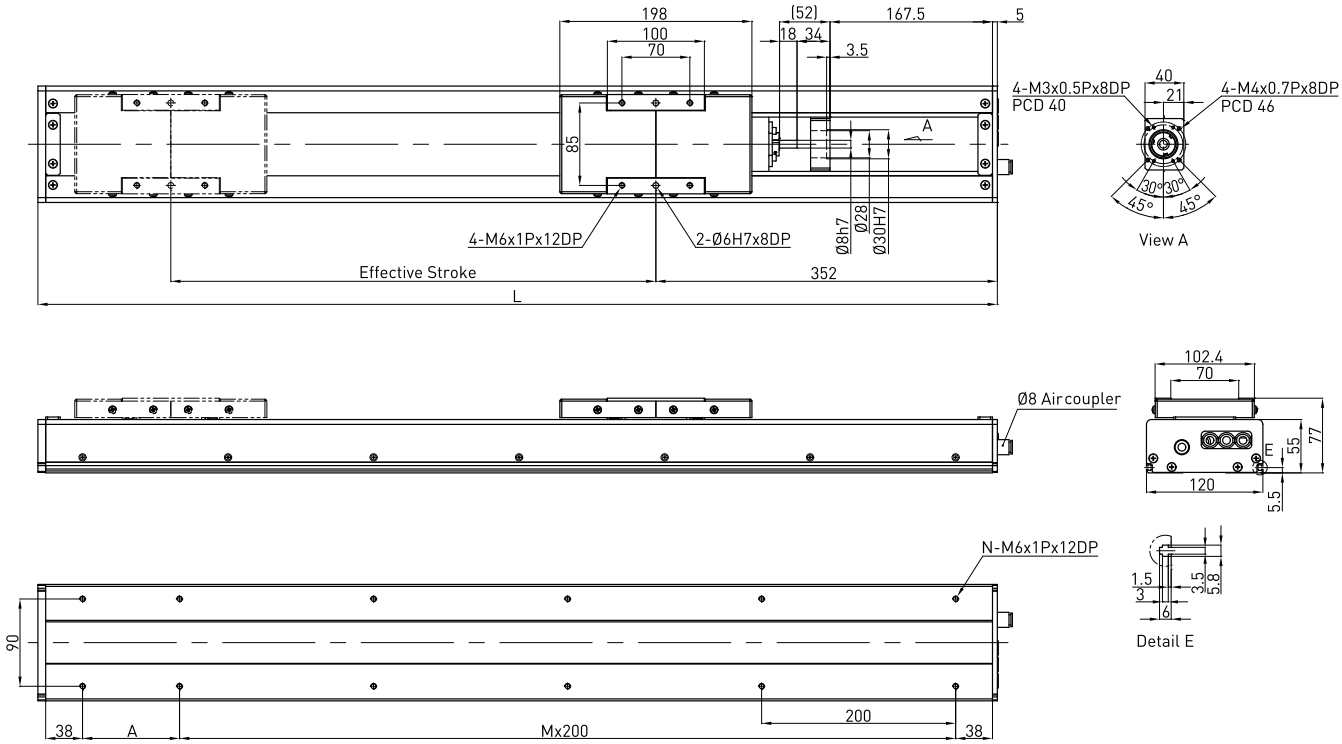
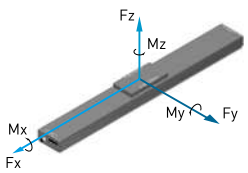
Model Number for KS120

KS120	-20	P	-1050	A	FI	S1	M
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Limit Switch	Motor
	5 mm 10 mm 20 mm	C: Normal P: Precision		A: Standard	FI: Internal	S1: OMRON SX671 S2: OMRON SX674 S3: SUNX GX-F12A S4: SUNX GX-F12A-P None: Without Sensor	M: Supplied With Motor None: Without Motor



Effective stroke (mm)	L	A	M	N	Weight (kg)
100	589	100	2	8	6.32
150	639	150	2	8	6.94
200	689	200	2	8	7.57
250	739	50	3	10	8.2
300	789	100	3	10	8.83
350	839	150	3	10	9.46
400	889	200	3	10	10.09
450	939	50	4	12	10.72
500	989	100	4	12	11.35
550	1039	150	4	12	11.98
600	1089	200	4	12	12.61
650	1139	50	5	14	13.24
700	1189	100	5	14	13.87
750	1239	150	5	14	14.5
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

AC motor output		W	100	
Drive			Ballscrew C7(normal)	
Lead		mm	5	10	20
Rated RPM		RPM	3000	3000	3000
Max linear speed*		mm/sec	250	500	1000
Rated thrust		N	280	140	70
Repeatability		mm	±0.02	
Effective stroke		mm	100~1050	
Max load (H)		kg	47	32	16
Rated dynamic load**	Fyd	N	50	50	50
	Fzd	N	470	320	160
	Mxd	N-m	31	33	35
	Myd	N-m	23	25	27
	Mzd	N-m	17	18	19



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 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.