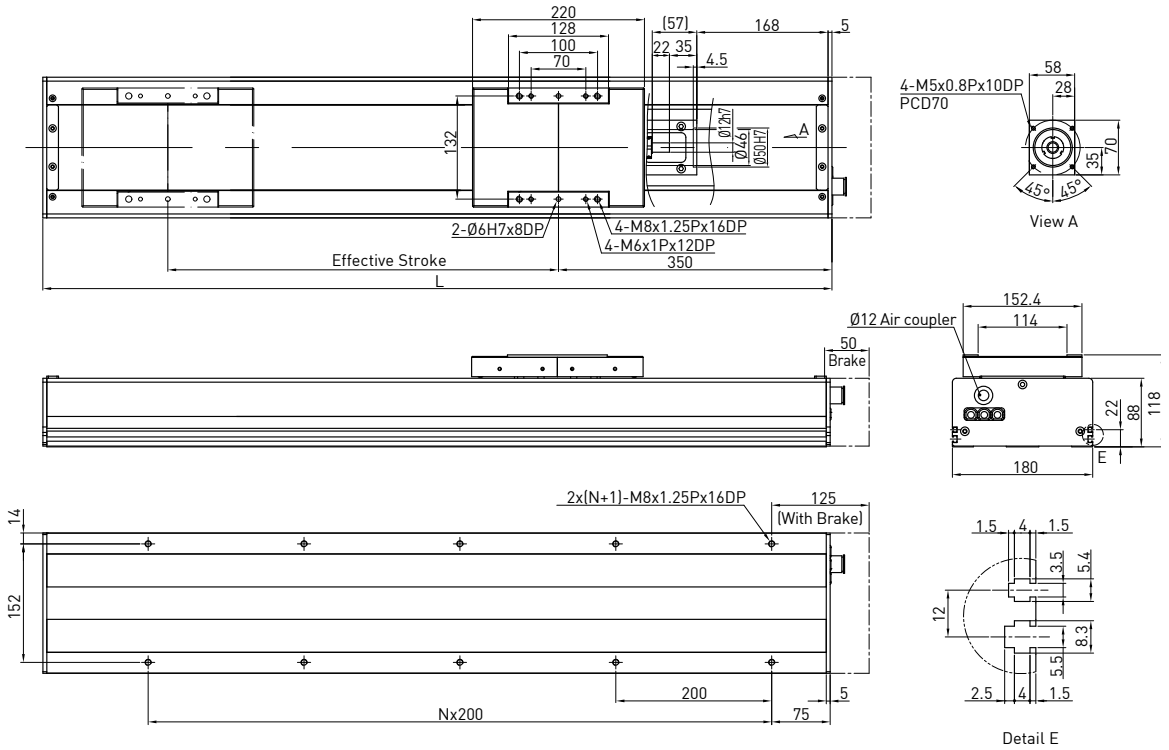
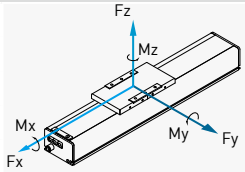
4.3.11 Model Number for KS180 -FI

KS180	-20	P	-1200	A	FI	U	S1	M	V
Model	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Cover	Limit Switch	Motor	Installation
	10mm 20mm	P: Precision C: Normal		A: Standard	FI: Internal	U: Without Cover None: Standard Cover	S1: OMRON SX671 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install



Effective stroke (mm)	L	N	Weight (kg)
200	710	3	16.5
300	810	3	18.1
400	910	4	19.7
500	1010	4	21.3
600	1110	5	22.9
700	1210	5	24.4
800	1310	6	26
900	1410	6	27.6
1000	1510	7	29.2
1100	1610	7	30.8
1200	1710	8	32.3

AC motor output			W	400	
Ballscrew / Drive				Φ 20C7/ HGH15CA	
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	200~1200	
Rated dynamic load**		Fyd	N	1647	
		Fzd	N	3892	
		Mxd	N-m	227.7	
		Myd	N-m	132.3	
		Mzd	N-m	132.3	
Permitted load condition***	$\frac{Fy}{Fyd}+\frac{Fz}{Fzd}+\frac{Mx}{Mxd}+\frac{My}{Myd}+\frac{Mz}{Mzd}\le 1$ 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.