

# Industrial Robot

## KS Series

### 4.1 Features

- Reasonable price
- Use in Clean room
- Stainless covers
- Already installed AC servo motor (optional)
- High repeatability  $\pm 0.02\text{mm}$
- Dust proof
- Support different strokes

### 4.2 Applications

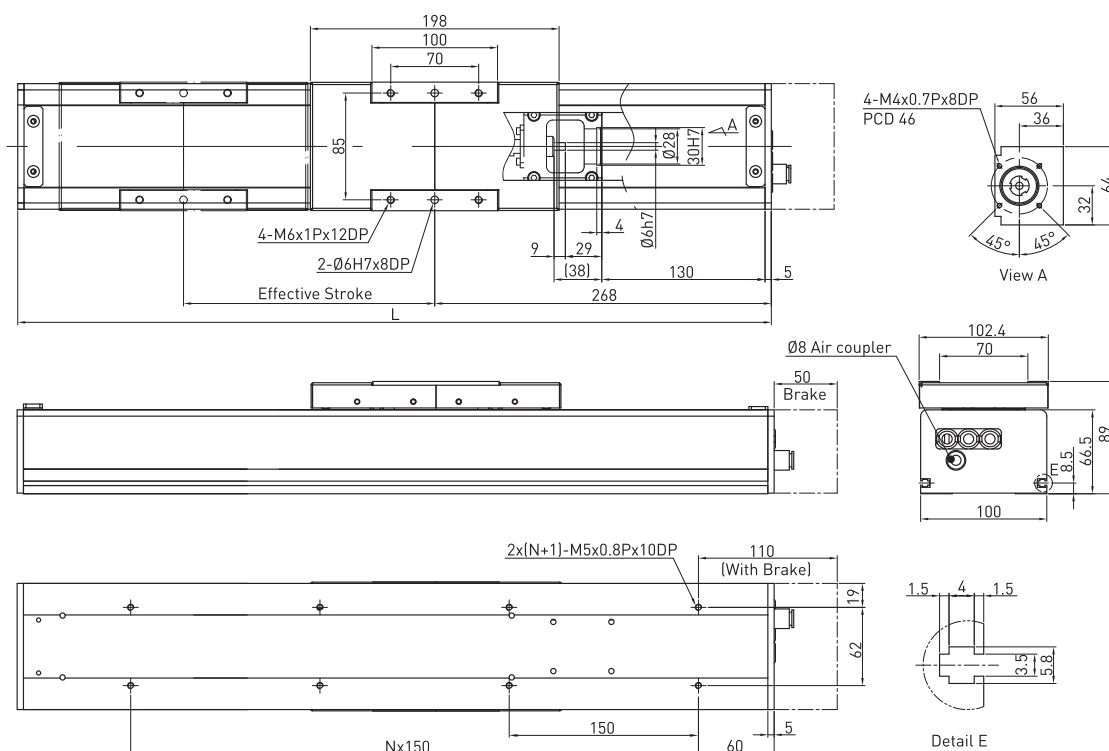
- FPD industry
- Semiconductor
- Medical applications
- FPD glass transfer
- Inspection & testing equipment



### 4.3 KS Series

#### 4.3.1 Model Number for KS100-FI

KS100	-20	P	-800	A	FI	U	S2	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	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install



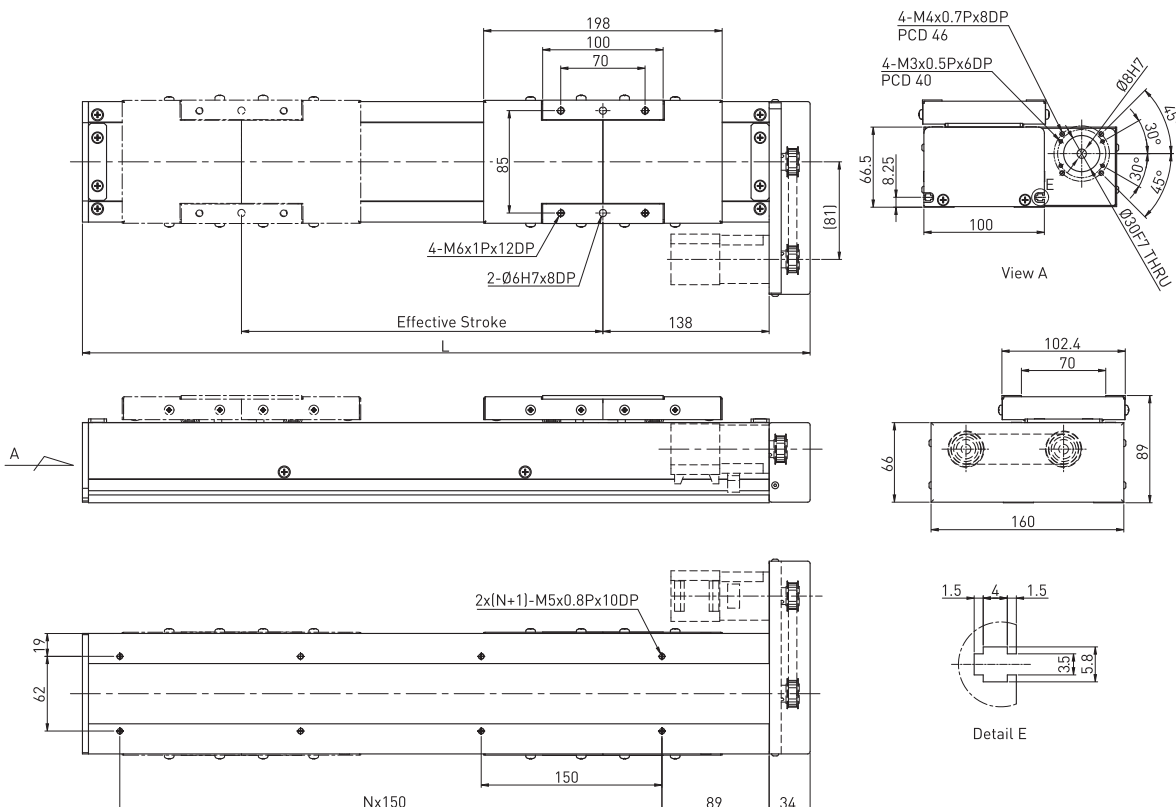
Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	100	
				Ballscrew / Drive		Φ 15C7/ MGW 15H	
200	600	3	9.1	Lead	mm	10 20	
300	700	4	9.8	Max linear speed*	mm/sec	525 1050	
400	800	4	10.5	Max RPM	RPM	3150 3150	
500	900	5	11.2	Rated thrust	N	178 89	
600	1000	6	11.9	Repeatability	mm	±0.02	
700	1100	6	12.6	Effective stroke	mm	200-800	
800	1200	7	13.3		Fyd	N	175
					Fzd	N	778
					Mxd	N-m	16.8
					Myd	N-m	6.9
					Mzd	N-m	6.9
				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 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.



### 4.3.2 Model Number for KS100-FL

KS100	-20	P	-800	A	FL	U	S2	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	FL: Left	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install

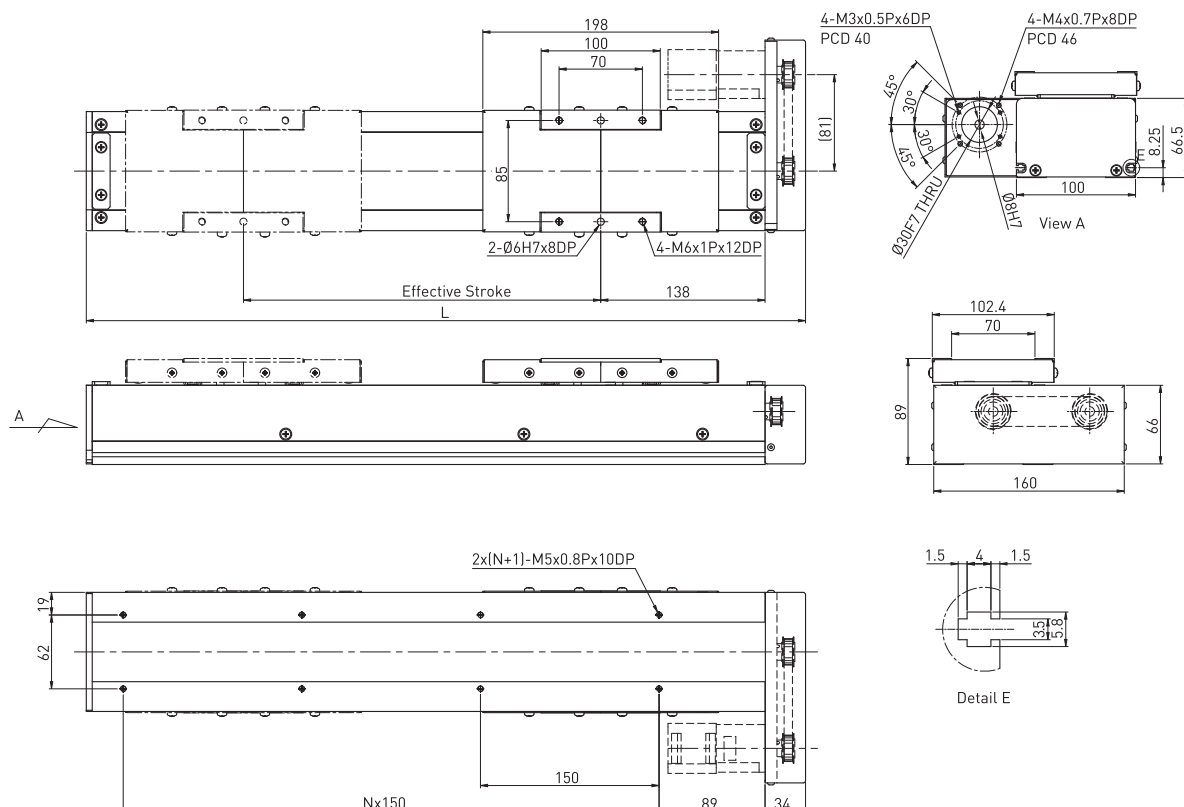


Effective stroke (mm)	L	N	Weight (kg)	AC motor output		W	
				Ball screw / Drive			
200	504	2	6.0	Lead	mm	10	20
300	604	3	6.9	Max linear speed*	mm/sec	525	1050
400	704	3	7.8	Max RPM	RPM	3150	3150
500	804	4	8.7	Rated thrust	N	178	89
600	904	5	9.6	Repeatability	mm	±0.02	
700	1004	5	10.5	Effective stroke	mm	200~800	
800	1104	6	11.4	Rated dynamic load**	F <sub>yd</sub>	N	175
					F <sub>zd</sub>	N	778
					M <sub>xd</sub>	N-m	16.8
					M <sub>yd</sub>	N-m	6.9
					M <sub>zd</sub>	N-m	6.9
				Permitted load condition***	$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ F <sub>y</sub> , F <sub>z</sub> , M <sub>x</sub> , M <sub>y</sub> , M <sub>z</sub> 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.

### 4.3.3 Model Number for KS100-FR

KS100	-20	P	-800	A	FR	U	S2	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	FR: Right	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install

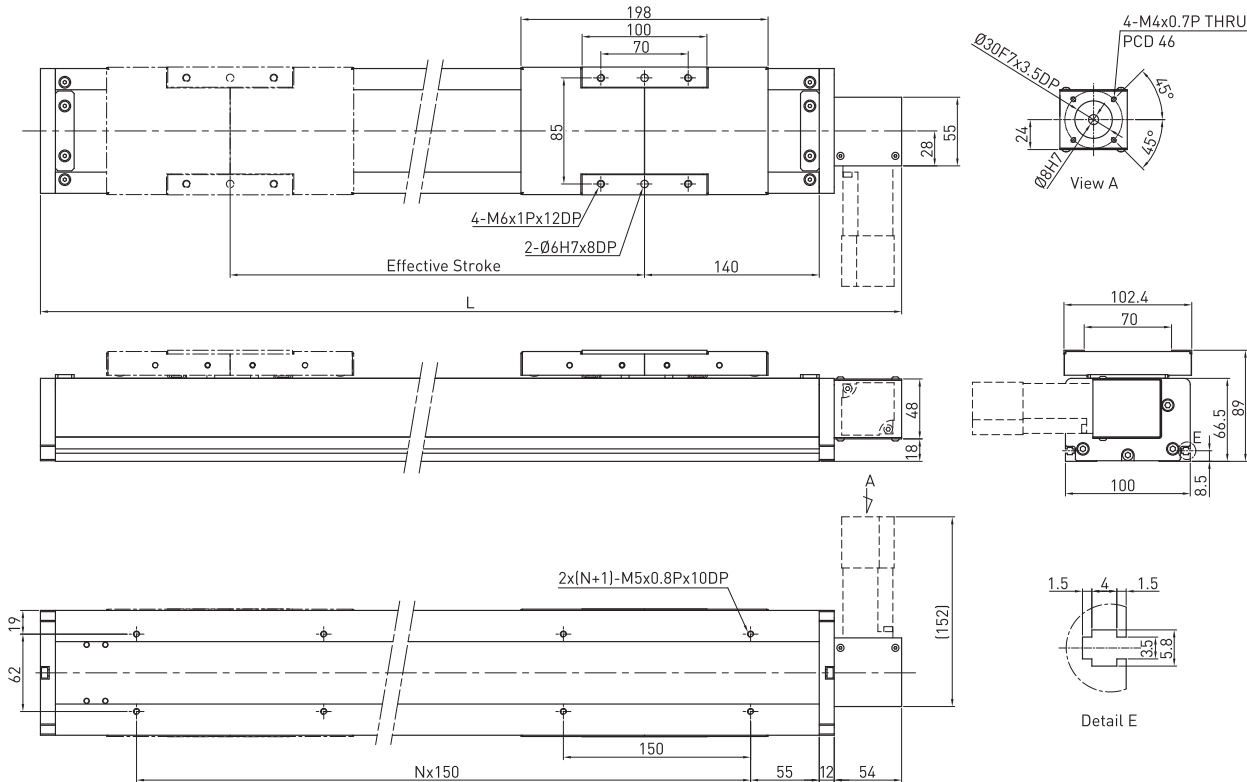


Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	100													
				Ballscrew / Drive		Φ 15C7/ MGW 15H													
200	504	2	6.0	Lead	mm	10	20												
300	604	3	6.9	Max linear speed*	mm/sec	525	1050												
400	704	3	7.8	Max RPM	RPM	3150	3150												
500	804	4	8.7	Rated thrust	N	178	89												
600	904	5	9.6	Repeatability	mm	±0.02													
700	1004	5	10.5	Effective stroke	mm	200~800													
800	1104	6	11.4	<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>Rated dynamic load**</p> </div> <div style="flex: 1;"> </div> <div style="flex: 1;"> <table border="1"> <tr> <td>Fyd</td> <td>N</td> <td>175</td> </tr> <tr> <td>Fzd</td> <td>N</td> <td>778</td> </tr> <tr> <td>Mxd</td> <td>N-m</td> <td>16.8</td> </tr> <tr> <td>Myd</td> <td>N-m</td> <td>6.9</td> </tr> <tr> <td>Mzd</td> <td>N-m</td> <td>6.9</td> </tr> </table> </div> </div>	Fyd	N	175	Fzd	N	778	Mxd	N-m	16.8	Myd	N-m	6.9	Mzd	N-m	6.9
Fyd	N	175																	
Fzd	N	778																	
Mxd	N-m	16.8																	
Myd	N-m	6.9																	
Mzd	N-m	6.9																	
Permitted load condition***				$\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ <p>F<sub>y</sub>, F<sub>z</sub>, M<sub>x</sub>, M<sub>y</sub>, M<sub>z</sub> are working loads</p>															

\* 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.

### 4.3.4 Model Number for KS100B-FL

<b>KS100</b>	<b>B</b>	<b>-84</b>	<b>C</b>	<b>-3000</b>	<b>A</b>	<b>FL</b>	<b>U</b>	<b>S2</b>	<b>M</b>
Model	Timing Belt	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Cover	Limit Switch	Motor
		10mm 20mm	C: Normal		A: Standard	FL: Left	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor



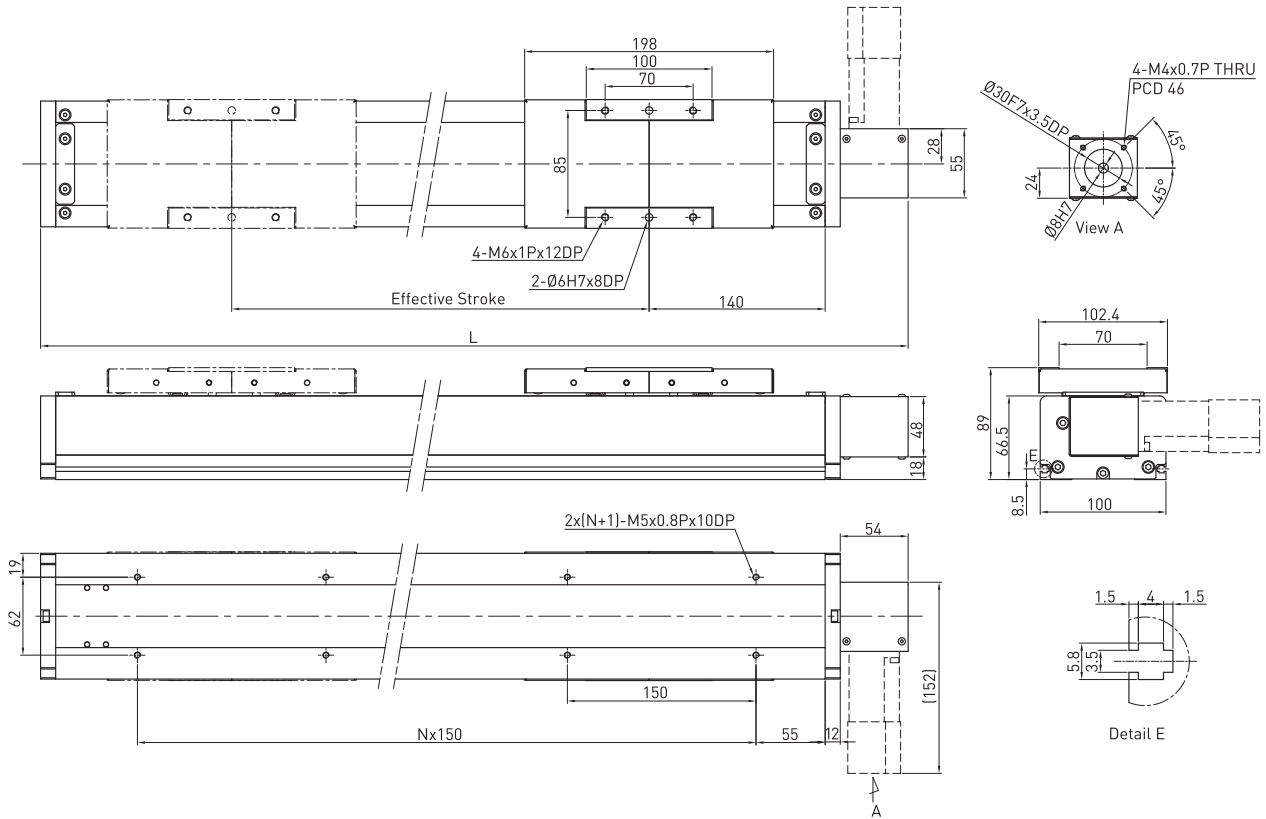
Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	100	
200	558	2	6.1	Timing Belt / Drive		HTD 3M/MGW 15H	
400	758	4	7.6	Lead	mm	84	
600	958	5	9.1	Max linear speed	mm/sec	1800	
800	1158	6	10.6	Rated thrust	N	33	
1000	1358	8	12.1	Repeatability	mm	±0.1	
1200	1558	9	13.6	Effective stroke	mm	200~3000	
1400	1758	10	15.1		Fyd	N	175
1600	1958	12	16.6		Fzd	N	778
1800	2158	13	18.1		Mxd	N-m	16.8
2000	2358	14	19.6		Myd	N-m	6.9
2200	2558	16	21.1		Mzd	N-m	6.9
2400	2758	17	22.6	<b>Permitted load condition**</b> $\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads			
2600	2958	18	24.1				
2800	3158	20	25.6				
3000	3358	21	27.1				

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

\*\*For horizontal application only. If used in special condition, please contact HIWIN.

### 4.3.5 Model Number for KS100B-FR

<b>KS100</b>	<b>B</b>	<b>-84</b>	<b>C</b>	<b>-3000</b>	<b>A</b>	<b>FR</b>	<b>U</b>	<b>S2</b>	<b>M</b>
Model	Timing Belt	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Cover	Limit Switch	Motor
		10mm 20mm	C: Normal		A: Standard	FR: Right	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor



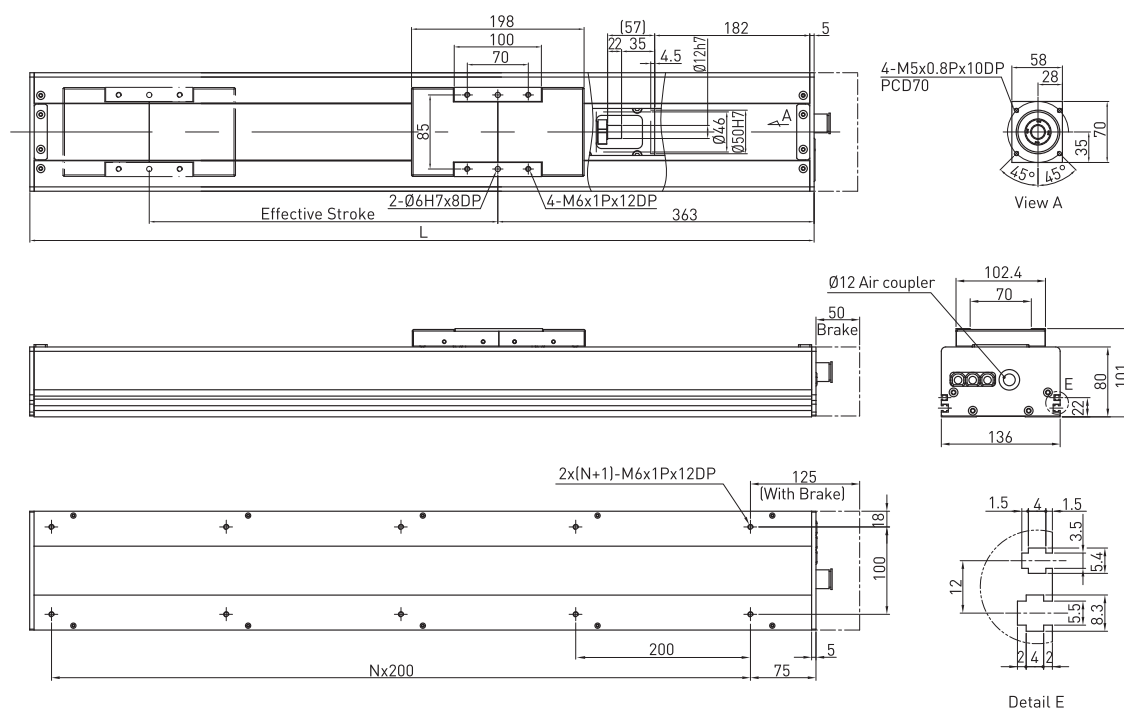
Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	100	
200	558	2	6.1	Timing Belt / Drive		HTD 3M/MGW 15H	
400	758	4	7.6	Lead	mm	84	
600	958	5	9.1	Max linear speed	mm/sec	1800	
800	1158	6	10.6	Rated thrust	N	33	
1000	1358	8	12.1	Repeatability	mm	±0.1	
1200	1558	9	13.6	Effective stroke	mm	200~3000	
1400	1758	10	15.1		Fyd	N	175
1600	1958	12	16.6		Fzd	N	778
1800	2158	13	18.1		Mxd	N-m	16.8
2000	2358	14	19.6		Myd	N-m	6.9
2200	2558	16	21.1		Mzd	N-m	6.9
2400	2758	17	22.6	<b>Permitted load condition**</b> $\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads			
2600	2958	18	24.1				
2800	3158	20	25.6				
3000	3358	21	27.1				

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

\*\*For horizontal application only. If used in special condition, please contact HIWIN.

### 4.3.6 Model Number for KS140-FI

KS140	-20	P	-1100	A	FI	U	S2	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	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install



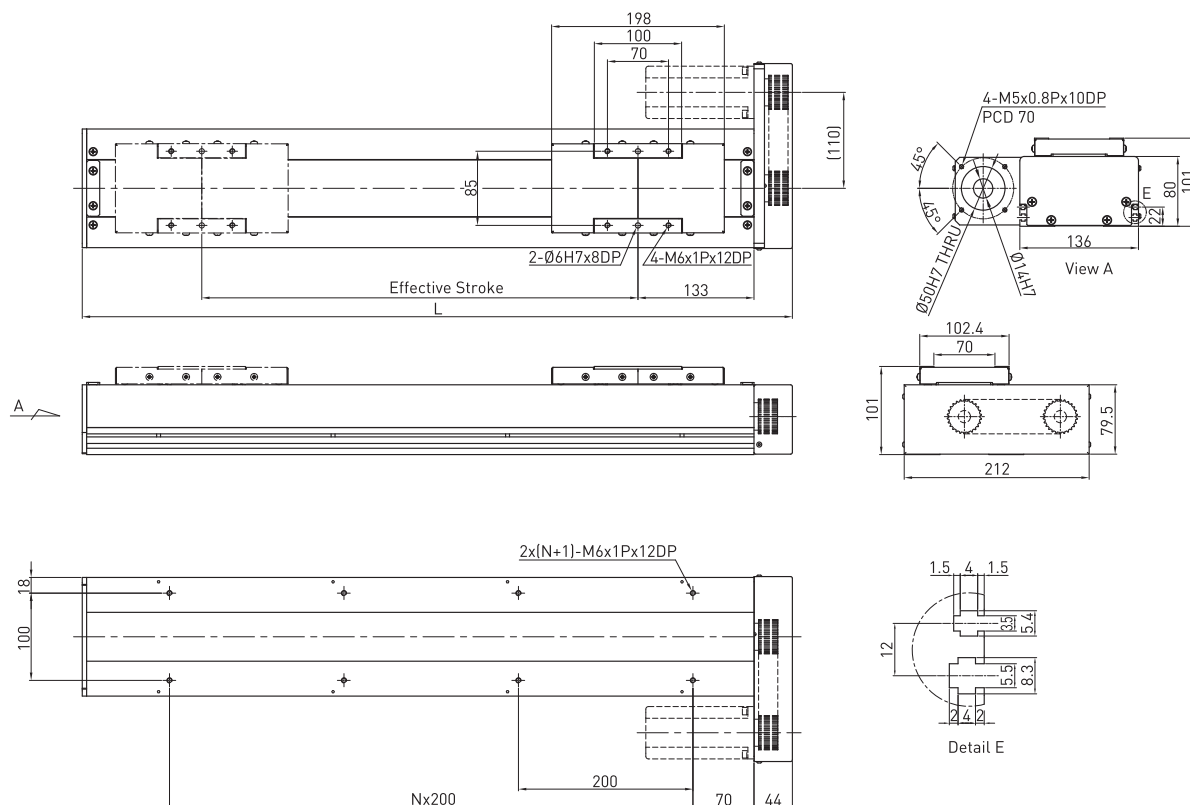
Effective stroke (mm)	L	N	Weight (kg)	AC motor output		W		
				Ball screw / Drive		200		
200	700	3	13.5	Lead	mm	10	20	
300	800	3	14.7	Max linear speed*	mm/sec	525	1050	
400	900	4	15.9	Max RPM	RPM	3150	3150	
500	1000	4	17.1	Rated thrust	N	357	178	
600	1100	5	18.3	Repeatability	mm	±0.02		
700	1200	5	19.5	Effective stroke	mm	200~1100		
800	1300	6	20.7	Rated dynamic load**		Fyd	N	1709
900	1400	6	21.9			Fzd	N	3892
1000	1500	7	23.2			Mxd	N-m	171.2
1100	1600	7	24.4			Myd	N-m	132.3
						Mzd	N-m	132.3
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 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.



### 4.3.8 Model Number for KS140-FR

KS140	-20	P	-1100	A	FR	U	S2	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	FR: Right	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install

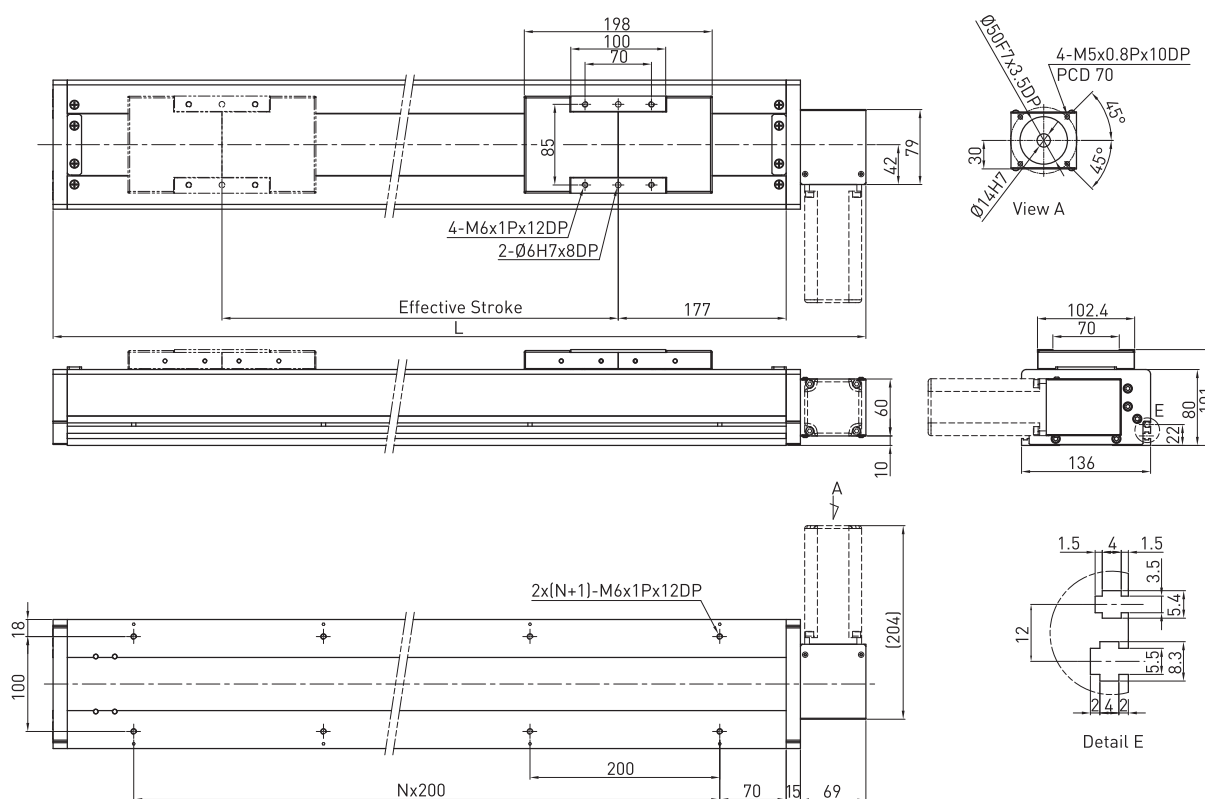


Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	200	
				Ballscrew / Drive		Φ 20C7/ HGH15CA	
200	514	1	11.5	Lead	mm	10	20
300	614	2	13.0	Max linear speed*	mm/sec	525	1050
400	714	2	14.5	Max RPM	RPM	3150	3150
500	814	3	16.0	Rated thrust	N	357	178
600	914	3	17.5	Repeatability	mm	±0.02	
700	1014	4	19.0	Effective stroke	mm	200~1100	
800	1114	4	20.5	Rated dynamic load** 	Fyd	N	1709
900	1214	5	22.0		Fzd	N	3892
1000	1314	5	23.5		Mxd	N-m	171.2
1100	1414	6	25.0		Myd	N-m	132.3
					Mzd	N-m	132.3
				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 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.

### 4.3.9 Model Number for KS140B-FL

<b>KS140</b>	<b>B</b>	<b>-120</b>	<b>C</b>	<b>-3000</b>	<b>A</b>	<b>FL</b>	<b>U</b>	<b>S2</b>	<b>M</b>
Model	Timing Belt	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Cover	Limit Switch	Motor
			C: Normal		A: Standard	FL: Left	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor



Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	200	
200	639	2	10.4	Timing Belt / Drive		HTD 5M/HGH15CA	
400	839	3	12.6	Lead	mm	120	
600	1039	4	14.8	Max linear speed	mm/sec	1800	
800	1239	5	17.0	Rated thrust	N	66	
1000	1439	6	19.2	Repeatability	mm	±0.1	
1200	1639	7	21.4	Effective stroke	mm	200~3000	
1400	1839	8	23.6	Rated dynamic load*	Fyd	N	1709
1600	2039	9	25.8		Fzd	N	3892
1800	2239	10	28.0		Mxd	N-m	171.2
2000	2439	11	30.2		Myd	N-m	132.3
2200	2639	12	32.4		Mzd	N-m	132.3
2400	2839	13	34.6	Permitted load condition** $\frac{F_y}{F_{yd}} + \frac{F_z}{F_{zd}} + \frac{M_x}{M_{xd}} + \frac{M_y}{M_{yd}} + \frac{M_z}{M_{zd}} \leq 1$ Fy, Fz, Mx, My, Mz are working loads			
2600	3039	14	36.8				
2800	3239	15	39.0				
3000	3439	16	41.2				

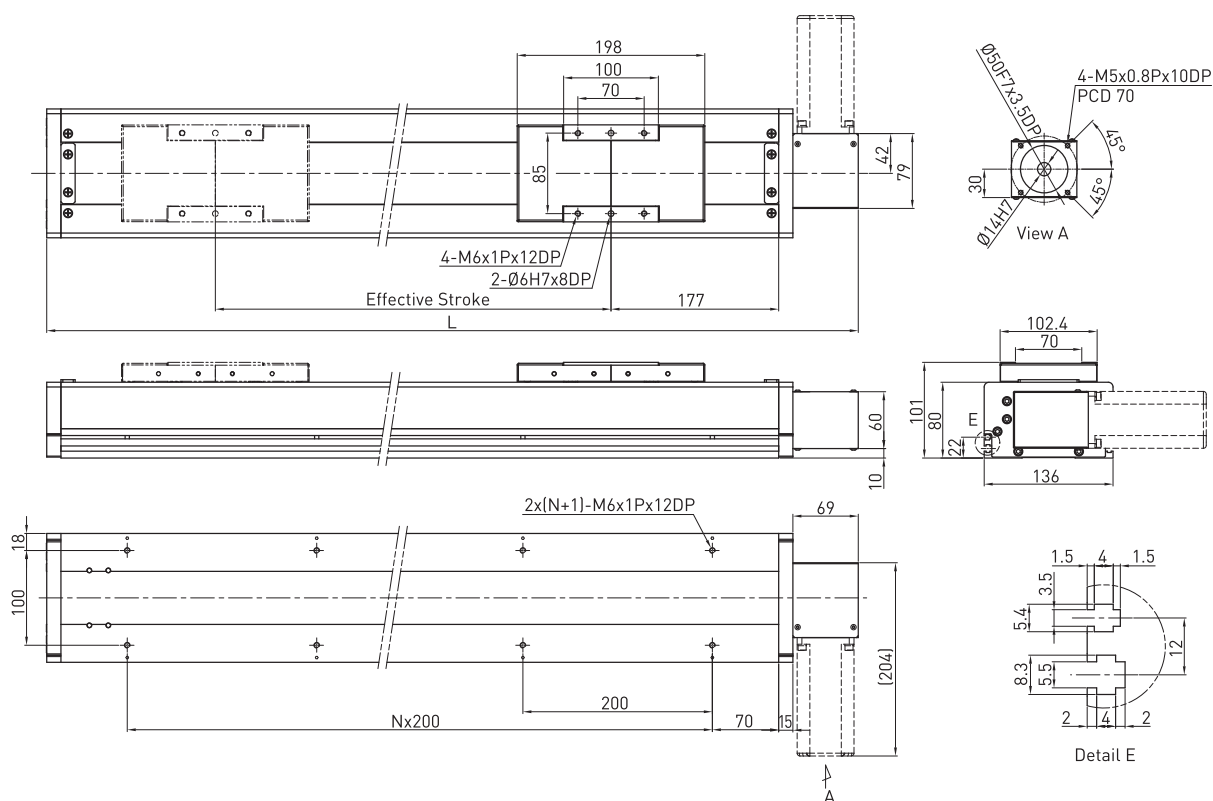
\*The load condition is based on 10,000km operation.

\*\*For horizontal application only. If used in special condition, please contact HIWIN.



### 4.3.10 Model Number for KS140B-FR

<b>KS140</b>	<b>B</b>	<b>-120</b>	<b>C</b>	<b>-3000</b>	<b>A</b>	<b>FR</b>	<b>U</b>	<b>S2</b>	<b>M</b>
Model	Timing Belt	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Cover	Limit Switch	Motor
			C: Normal		A: Standard	FR: Right	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor



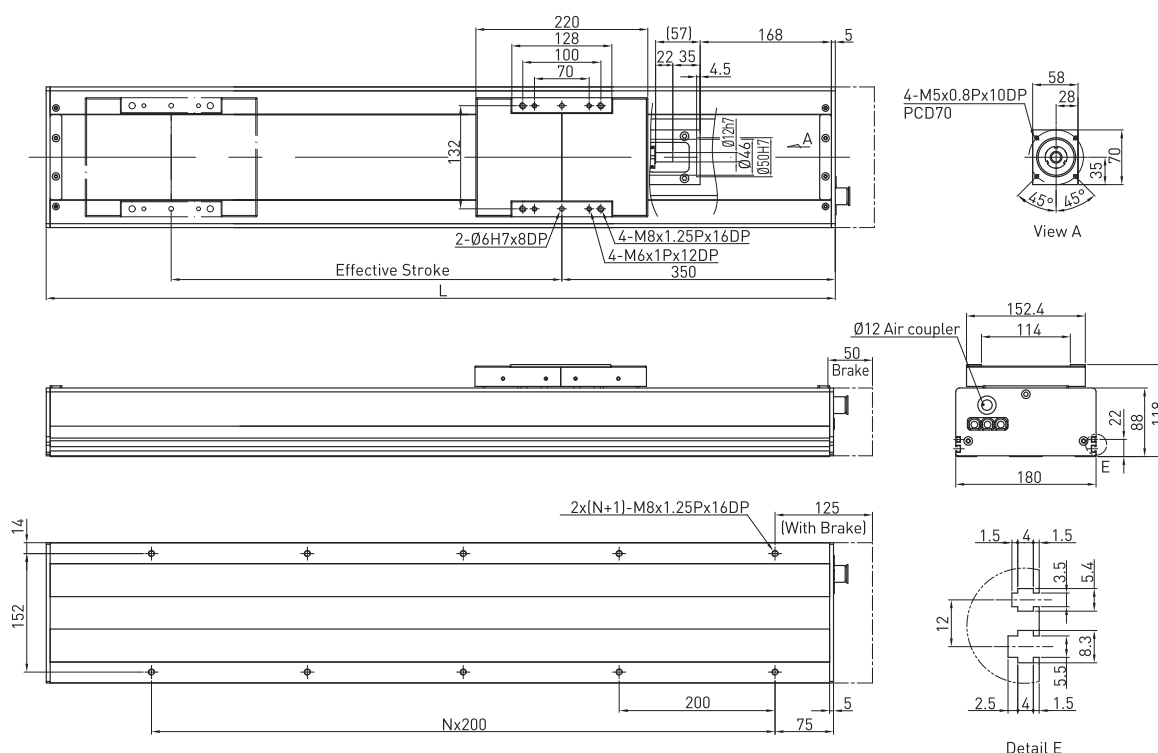
Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	200	
				Timing Belt / Drive		HTD 5M/HGH15CA	
200	639	2	10.4	Lead	mm	120	
400	839	3	12.6	Max linear speed	mm/sec	1800	
600	1039	4	14.8	Rated thrust	N	66	
800	1239	5	17.0	Repeatability	mm	±0.1	
1000	1439	6	19.2	Effective stroke	mm	200~3000	
1200	1639	7	21.4	Rated dynamic load*	Fyd	N	1709
1400	1839	8	23.6		Fzd	N	3892
1600	2039	9	25.8		Mxd	N-m	171.2
1800	2239	10	28.0		Myd	N-m	132.3
2000	2439	11	30.2		Mzd	N-m	132.3
2200	2639	12	32.4	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			
2400	2839	13	34.6				
2600	3039	14	36.8				
2800	3239	15	39.0				
3000	3439	16	41.2				

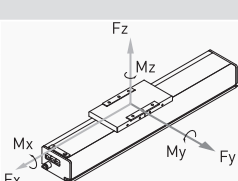
\*The load condition is based on 10,000km operation.

\*\*For horizontal application only. If used in special condition, please contact HIWIN.

### 4.3.11 Model Number for KS180 -FI

KS180	-20	P	-1200	A	FI	U	S2	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	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install

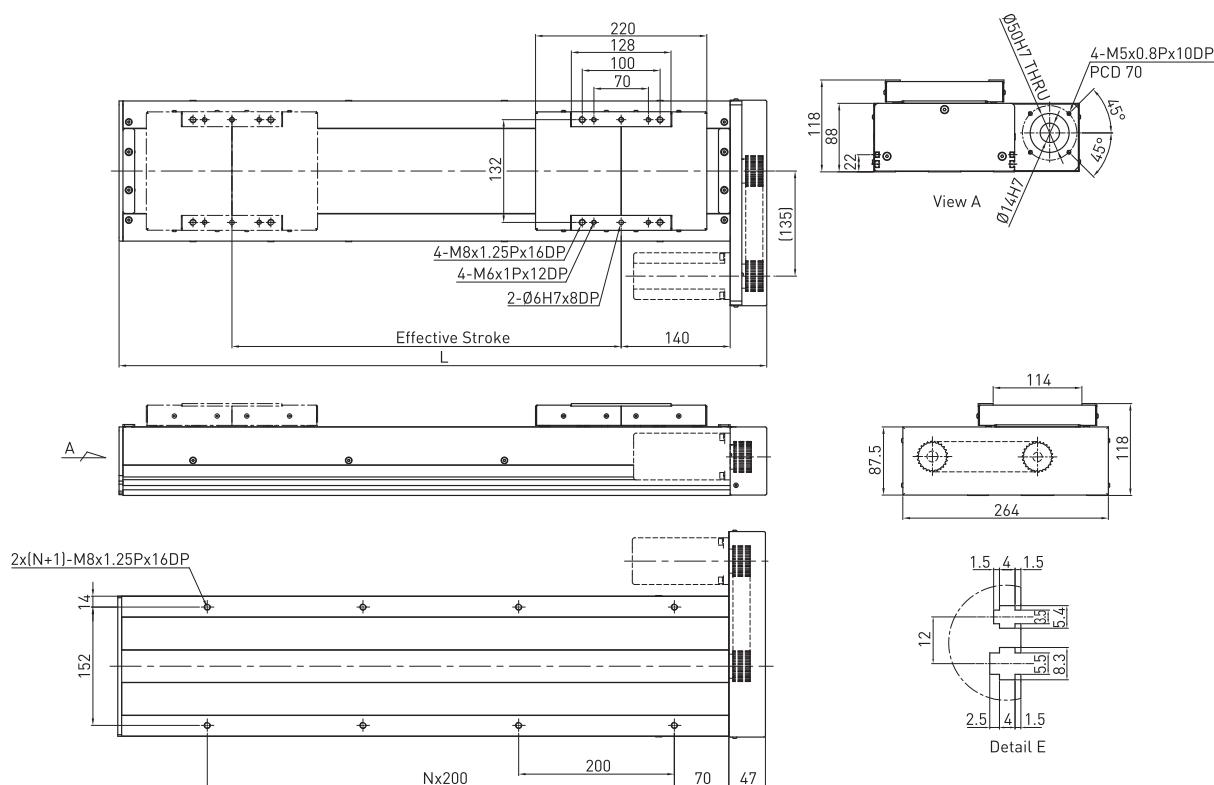


Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	400	
				Ballscrew / Drive		Φ 20C7/ HGH15CA	
200	710	3	16.5	Lead	mm	10 20	
300	810	3	18.1	Max linear speed*	mm/sec	400 800	
400	910	4	19.7	Max RPM	RPM	2400 2400	
500	1010	4	21.3	Rated thrust	N	936 468	
600	1110	5	22.9	Repeatability	mm	±0.02	
700	1210	5	24.4	Effective stroke	mm	200~1200	
800	1310	6	26	Rated dynamic load** 	Fyd	N	1647
900	1410	6	27.6		Fzd	N	3892
1000	1510	7	29.2		Mxd	N-m	227.7
1100	1610	7	30.8		Myd	N-m	132.3
1200	1710	8	32.3		Mzd	N-m	132.3
				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 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.

### 4.3.12 Model Number for KS180-FL

KS180	-20	P	-1200	A	FL	U	S2	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	FL: Left	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install

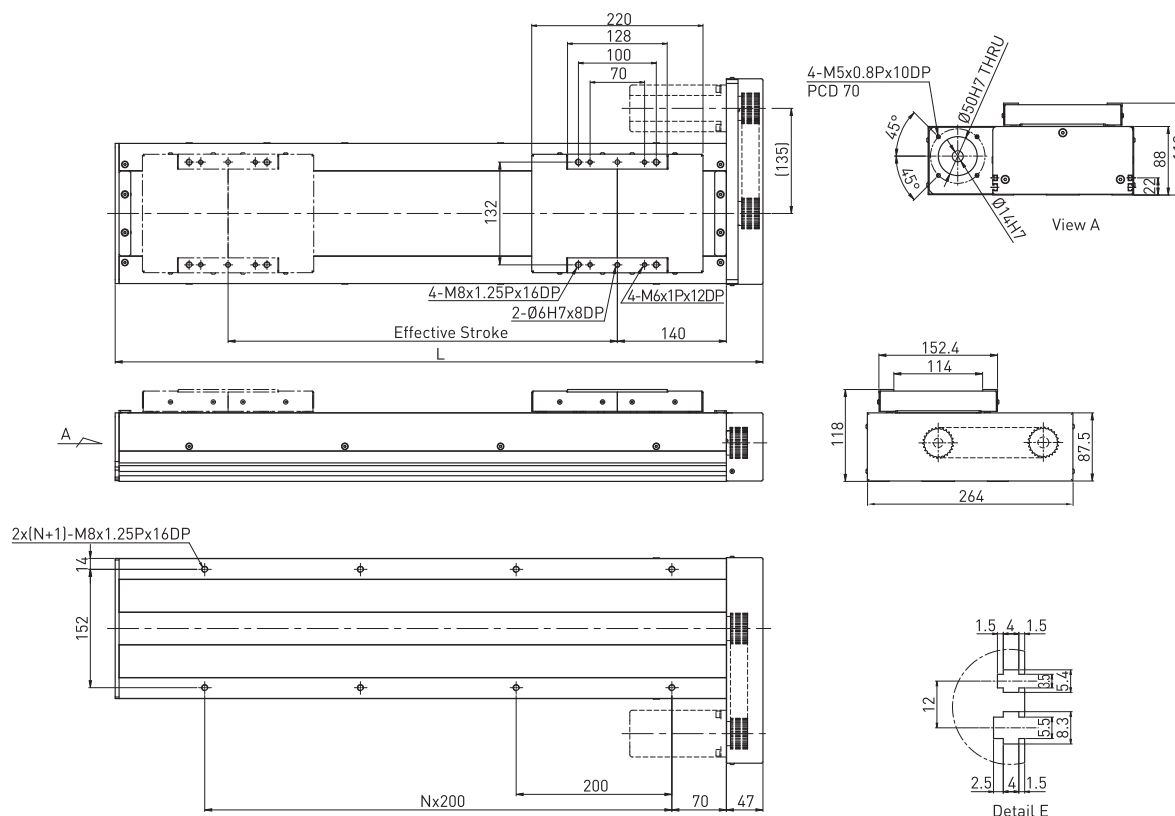


Effective stroke (mm)	L	N	Weight (kg)	AC motor output		W	
				Ball screw / Drive			400
200	532	1	11.3			Φ 20C7/ HGH15CA	
300	632	2	12.3	Lead	mm	10	20
400	732	2	13.3	Max linear speed*	mm/sec	400	800
500	832	3	14.3	Max RPM	RPM	2400	2400
600	932	3	15.3	Rated thrust	N	936	468
700	1032	4	16.3	Repeatability	mm	±0.02	
800	1132	4	17.3	Effective stroke	mm	200~1200	
900	1232	5	18.3	Rated dynamic load**	F <sub>zd</sub>	N	1647
1000	1332	5	19.3		F <sub>zd</sub>	N	3892
1100	1432	6	20.3		M <sub>xd</sub>	N-m	227.7
1200	1532	6	21.3		M <sub>yd</sub>	N-m	132.3
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 <sub>y</sub> , F <sub>z</sub> , M <sub>x</sub> , M <sub>y</sub> , M <sub>z</sub> 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.

### 4.3.13 Model Number for KS180-FR

KS180	-20	P	-1200	A	FR	U	S2	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	FR: Right	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor	V: Vertical Install None: Horizontal Install

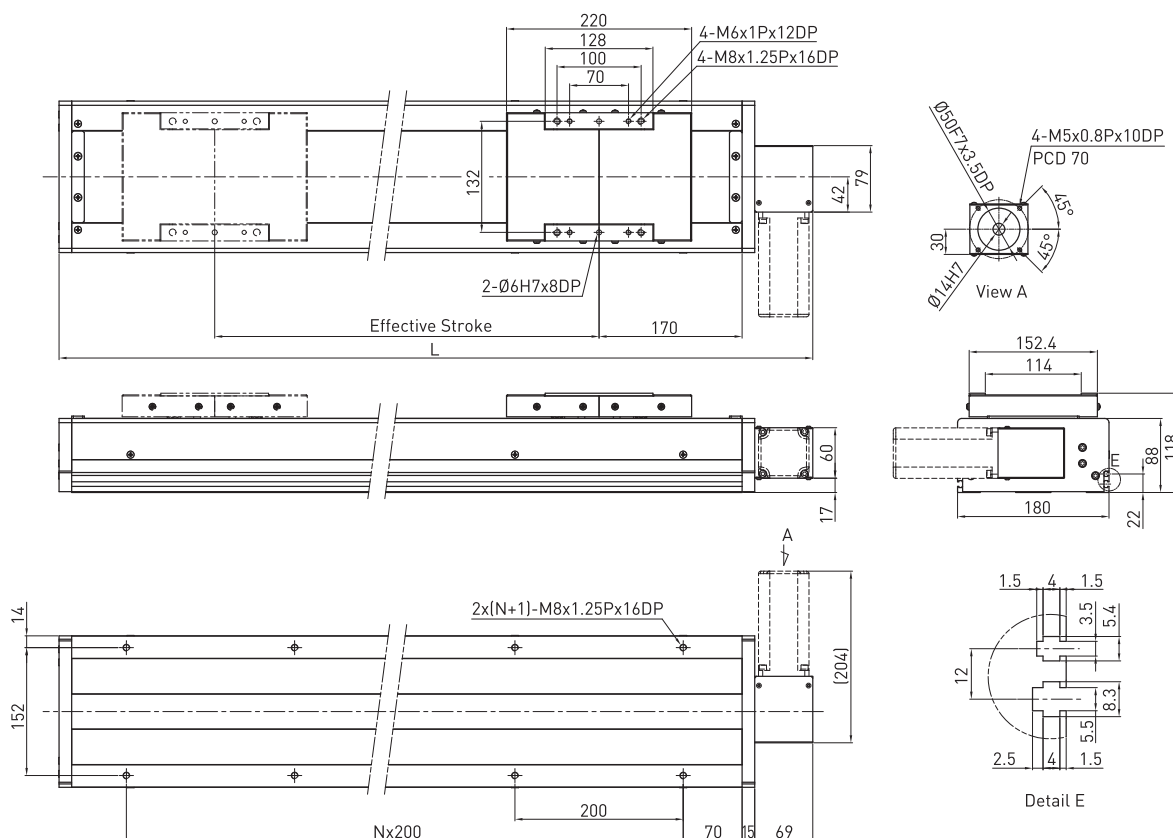


Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	400	
				Ballscrew / Drive		Φ 20C7/ HGH15CA	
200	532	1	11.3	Lead	mm	10	20
300	632	2	12.3	Max linear speed*	mm/sec	400	800
400	732	2	13.3	Max RPM	RPM	2400	2400
500	832	3	14.3	Rated thrust	N	936	468
600	932	3	15.3	Repeatability	mm	±0.02	
700	1032	4	16.3	Effective stroke	mm	200~1200	
800	1132	4	17.3	Rated dynamic load**	F <sub>yd</sub>	N	1647
900	1232	5	18.3		F <sub>zd</sub>	N	3892
1000	1332	5	19.3		M <sub>xd</sub>	N-m	227.7
1100	1432	6	20.3		M <sub>yd</sub>	N-m	132.3
1200	1532	6	21.3		M <sub>zd</sub>	N-m	132.3
				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 <sub>y</sub> , F <sub>z</sub> , M <sub>x</sub> , M <sub>y</sub> , M <sub>z</sub> 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.

### 4.3.14 Model Number for KS180B-FL

<b>KS180</b>	<b>B</b>	<b>-120</b>	<b>C</b>	<b>-3000</b>	<b>A</b>	<b>FL</b>	<b>U</b>	<b>S2</b>	<b>M</b>
Model	Timing Belt	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Cover	Limit Switch	Motor
			C: Normal		A: Standard	FL: Left	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor



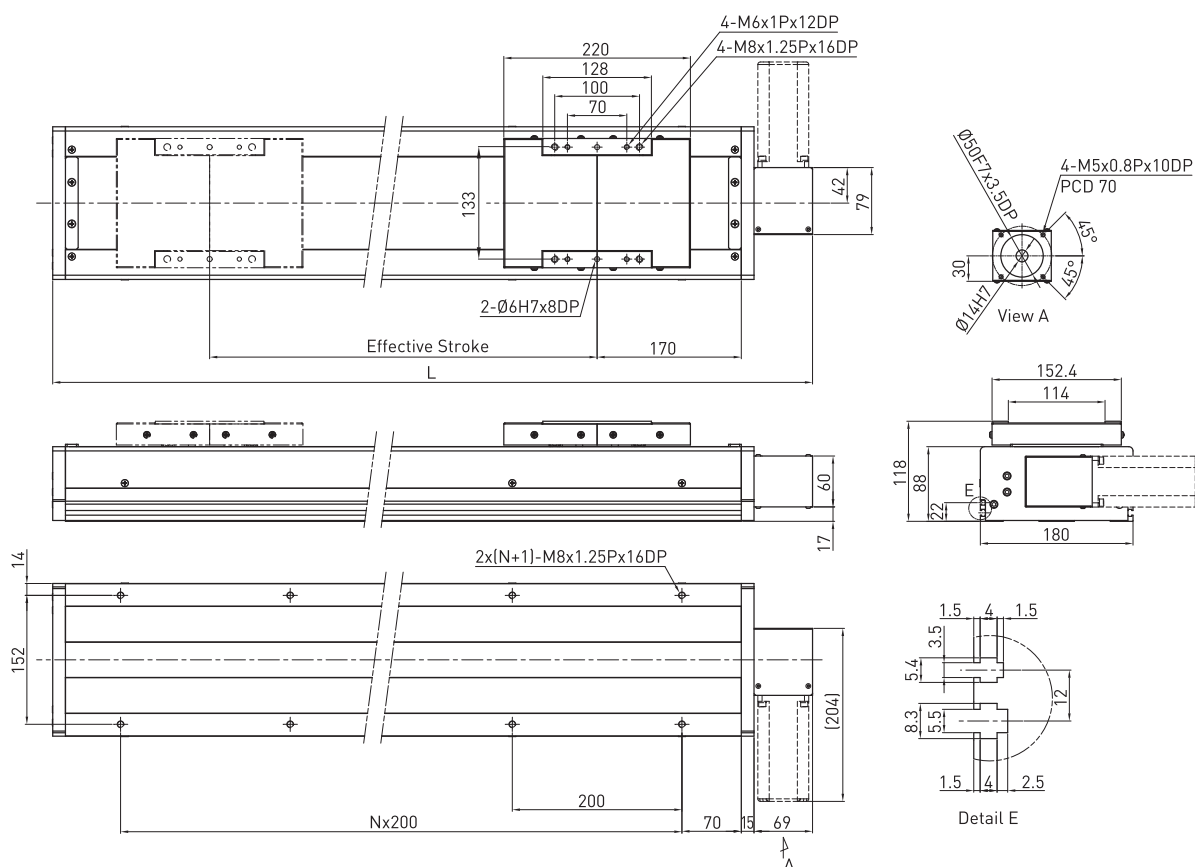
Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	400	
200	639	2	14.2	Timing Belt / Drive		HTD 5M/HGH15CA	
400	839	3	17.0	Lead	mm	120	
600	1039	4	19.8	Max linear speed	mm/sec	1800	
800	1239	5	22.6	Rated thrust	N	133	
1000	1439	6	25.4	Repeatability	mm	±0.1	
1200	1639	7	28.2	Effective stroke	mm	200~3000	
1400	1839	8	31.0	Rated dynamic load*	Fyd	N	1647
1600	2039	9	33.8		Fzd	N	3892
1800	2239	10	36.6		Mxd	N-m	227.7
2000	2439	11	39.4		Myd	N-m	132.3
2200	2639	12	42.2		Mzd	N-m	132.3
2400	2839	13	45.0	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			
2600	3039	14	47.8				
2800	3239	15	50.6				
3000	3439	16	53.4				

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

\*\*For horizontal application only. If used in special condition, please contact HIWIN.

### 4.3.15 Model Number for KS180B-FR

KS180	B	-120	C	-3000	A	FR	U	S2	M
Model	Timing Belt	Lead	Precision Grade	Effective Stroke	Slider Type	Motor Flange	Cover	Limit Switch	Motor
			C: Normal		A: Standard	FR: Right	U: Without Cover None: Standard Cover	S2: OMRON SX674 None: Without Sensor	M: Supplied With Motor None: Without Motor



Effective stroke (mm)	L	N	Weight (kg)	AC motor output	W	400	
				Timing Belt / Drive		HTD 5M/HGH15CA	
200	639	2	14.2	Lead	mm	120	
400	839	3	17.0	Max linear speed	mm/sec	1800	
600	1039	4	19.8	Rated thrust	N	133	
800	1239	5	22.6	Repeatability	mm	±0.1	
1000	1439	6	25.4	Effective stroke	mm	200~3000	
1200	1639	7	28.2	Rated dynamic load*	Fyd	N	1647
1400	1839	8	31.0		Fzd	N	3892
1600	2039	9	33.8		Mxd	N-m	227.7
1800	2239	10	36.6		Myd	N-m	132.3
2000	2439	11	39.4		Mzd	N-m	132.3
2200	2639	12	42.2	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			
2400	2839	13	45.0				
2600	3039	14	47.8				
2800	3239	15	50.6				
3000	3439	16	53.4				

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

\*\*For horizontal application only. If used in special condition, please contact HIWIN.