ALPHA ROBOTICS

ALPHA LINEAR ROBOT



ALS

SUPER LINEAR ROBOT

STD PRO GRAM mm mm/s kg CE



ALS250-S 30.1

ALS280-S 31.1

ALS320-S 32.1

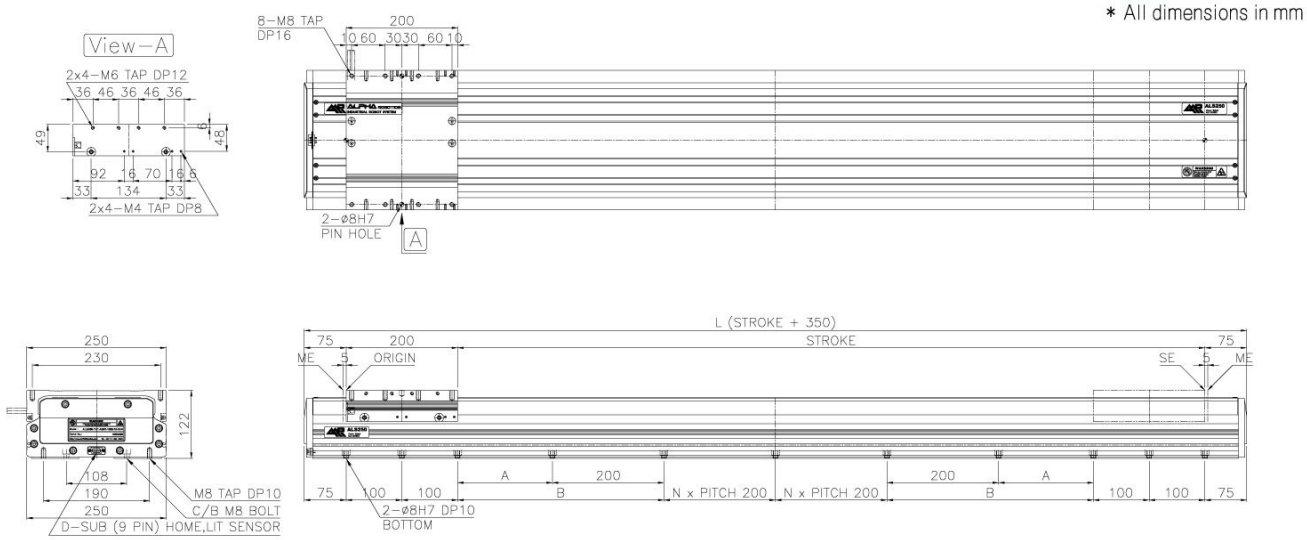
Model / Peak Force	ALS250-1H1 A022 220N	ALS250-1H2 A022 220N	ALS250-1H3 A022 220N	ALS250-1H1 A044 440N	ALS250-1H2 A044 440N	ALS250-1H3 A044 440N		

Specification	Unit	Data
ALS250-1H1-A022		ALS250-2H1-A022
		
Rated Force	N	80
Peak Force	N	220
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 115
LM Guide	-	NO 15, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	29	17	10	6
Allowable Overhang Distance - mm	Horizontal Use	0°	700	1000	1000	1000
		45°	650	1000	1000	1000
		90°	1000	1000	1000	1000
	Wall Installation Use	0°	570	960	1000	1000
		45°	840	1000	1000	1000
		90°	340	563	830	1000
	Note4 Vertical Use	0°	610	1000	1000	1000
		45°	305	500	730	1000
		90°	615	1000	1000	1000
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

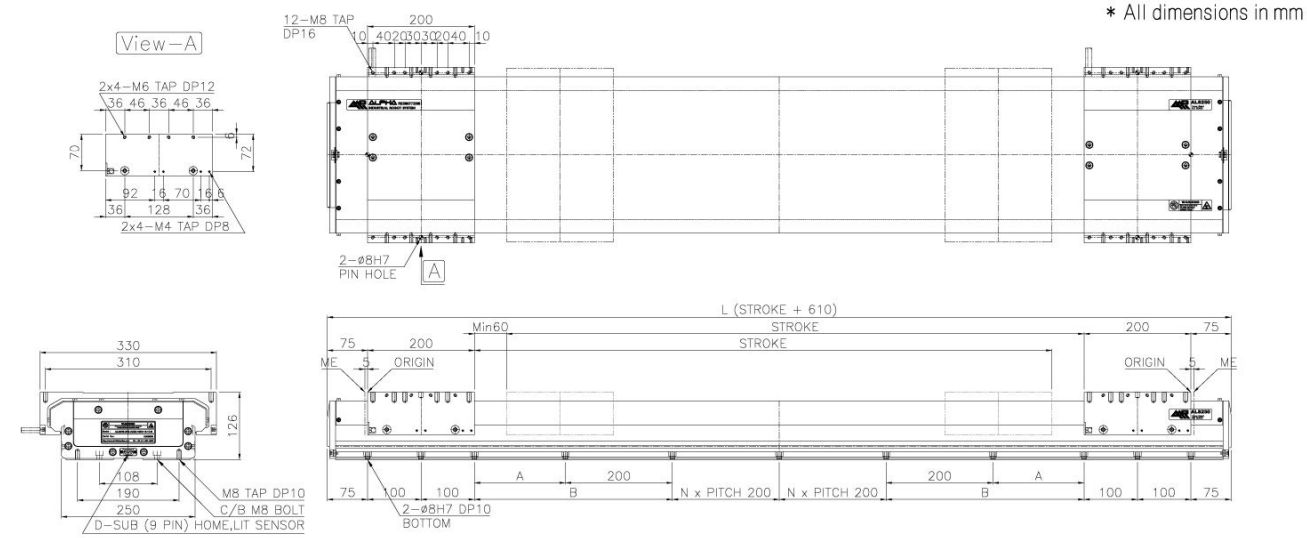
ALS250-1H1

* All dimensions in mm



ALS250-2H1

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS250-1H1-A022	kgf	38.01	53.83	69.65	85.47	117.12	(3.16)
ALS250-2H1-A022	kgf	52.61	68.43	84.25	100.08	131.72	(3.16)

CAUTION

Please be careful of surrounding interference when it is returning to origin because of the slide moves to ME.
ME : Mechanical End
SE : Stroke End

Apply 'B' value, in case of 'A' value is below of 80

NOTE1 It is differed by the drive specification, the maximum speed and using conditions.
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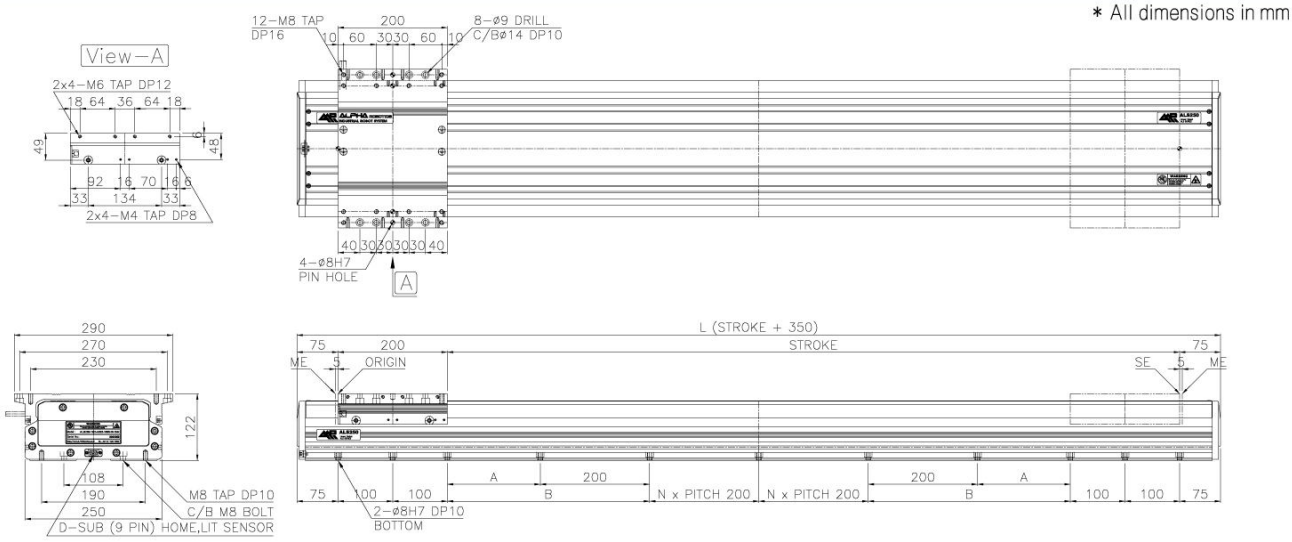
Model / Peak Force	ALS250-1H1 A022 220N	ALS250-1H2 A022 220N	ALS250-1H3 A022 220N	ALS250-1H1 A044 440N	ALS250-1H2 A044 440N	ALS250-1H3 A044 440N

Specification	Unit	Data
ALS250-1H2-A022		ALS250-2H2-A022
		
Rated Force	N	80
Peak Force	N	220
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 115
LM Guide	-	NO 15, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	29	17	10	6
Allowable Overhang Distance - mm	Horizontal Use	0°	700	1000	1000	1000
		45°	650	1000	1000	1000
		90°	1000	1000	1000	1000
	Wall Installation Use	0°	570	960	1000	1000
		45°	840	1000	1000	1000
		90°	340	563	830	1000
	Note4 Vertical Use	0°	610	1000	1000	1000
		45°	305	500	730	1000
		90°	615	1000	1000	1000
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

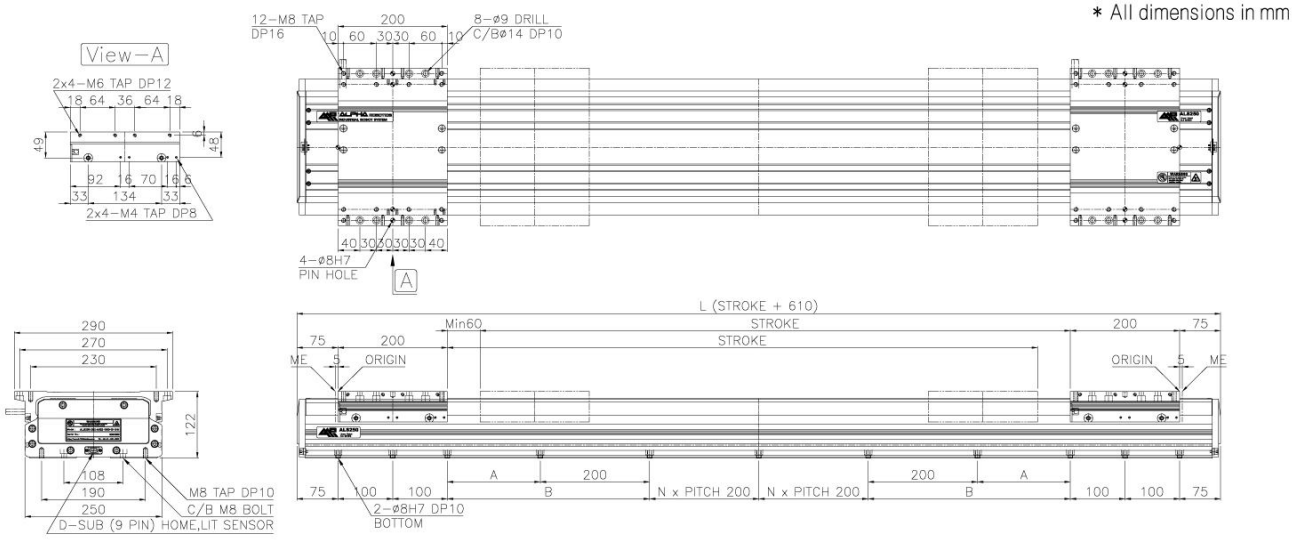
ALS250-1H2

* All dimensions in mm



ALS250-2H2

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS250-1H2-A022	kgf	38.01	53.83	69.65	85.47	117.12	(3.16)
ALS250-2H2-A022	kgf	52.61	68.43	84.25	100.08	131.72	(3.16)

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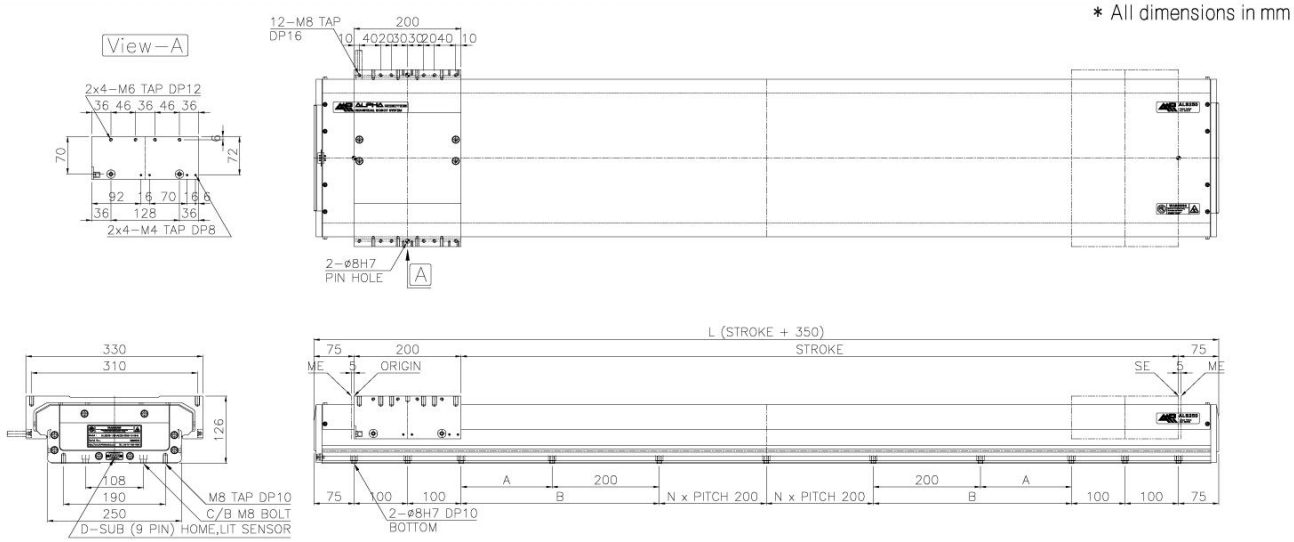
Model / Peak Force	ALS250-1H1 A022 220N	ALS250-1H2 A022 220N	ALS250-1H3 A022 220N	ALS250-1H1 A044 440N	ALS250-1H2 A044 440N	ALS250-1H3 A044 440N		

Specification	Unit	Data
ALS250-1H3-A022		ALS250-2H3-A022
Rated Force	N	80
Peak Force	N	220
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 115
LM Guide	-	NO 15, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	26	13	7	2
Allowable Overhang Distance - mm	Horizontal Use	0°	785	1000	1000	1000
		45°	735	1000	1000	1000
		90°	1000	1000	1000	1000
	Wall Installation Use	0°	640	1000	1000	1000
		45°	930	1000	1000	1000
		90°	380	695	1000	1000
	Note4 Vertical Use	0°	690	1000	1000	1000
		45°	345	620	1000	1000
		90°	690	1000	1000	1000
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

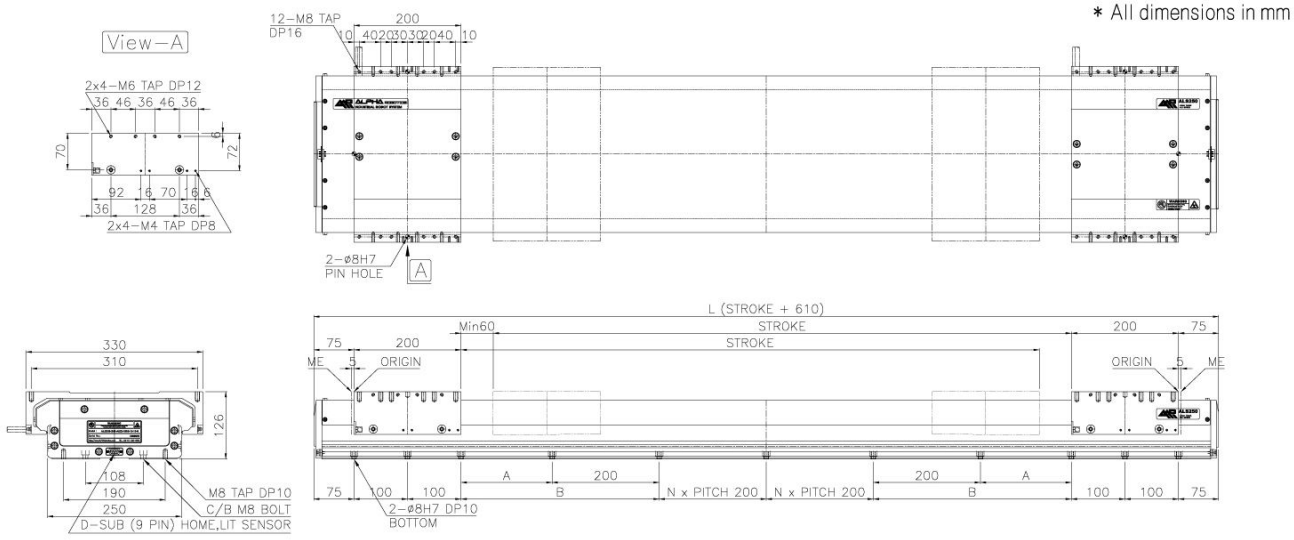
ALS250-1H3

* All dimensions in mm



ALS250-2H3

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS250-1H3-A022	kgf	42.35	58.35	74.35	90.34	122.34	(3.20)
ALS250-2H3-A022	kgf	61.12	77.11	93.11	109.11	141.11	(3.20)

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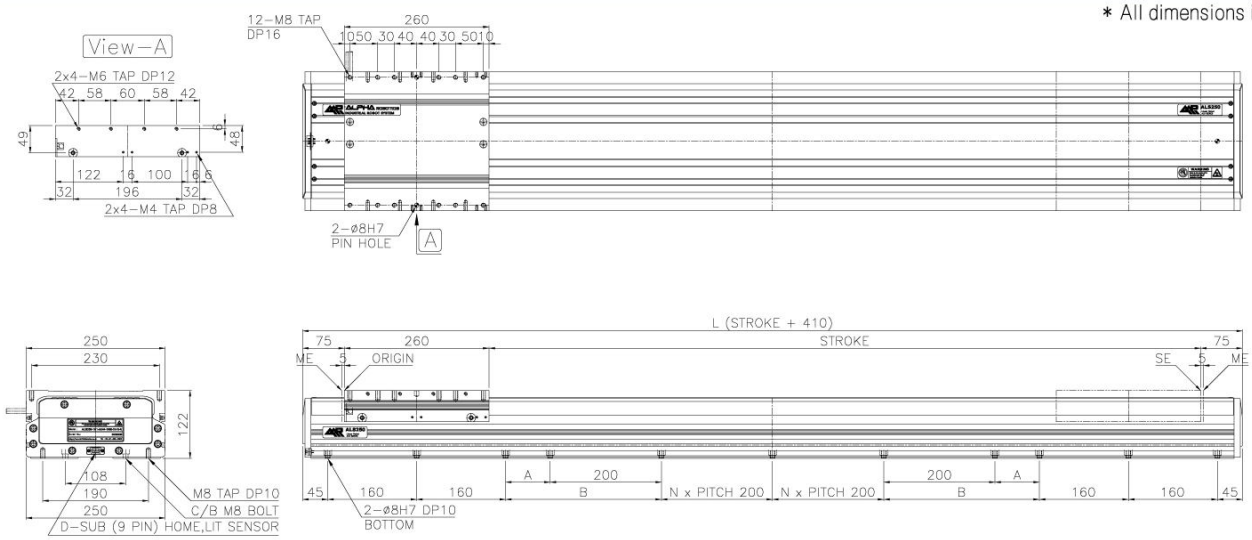
Model / Peak Force	ALS250-1H1 A022 220N	ALS250-1H2 A022 220N	ALS250-1H3 A022 220N	ALS250-1H1 A044 440N	ALS250-1H2 A044 440N	ALS250-1H3 A044 440N		

Specification	Unit	Data
ALS250-1H1-A044		ALS250-2H1-A044
		
Rated Force	N	160
Peak Force	N	440
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 150
LM Guide	-	NO 15, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	70	41	28	18
Allowable Overhang Distance - mm	Horizontal Use	0°	225	375	535	840
		45°	220	360	500	750
		90°	1000	1000	1000	1000
	Wall Installation Use	0°	250	415	580	900
		45°	265	430	610	950
		90°	129	210	300	470
	Note4 Vertical Use	0°	315	480	650	990
		45°	158	240	325	490
		90°	315	480	650	990
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

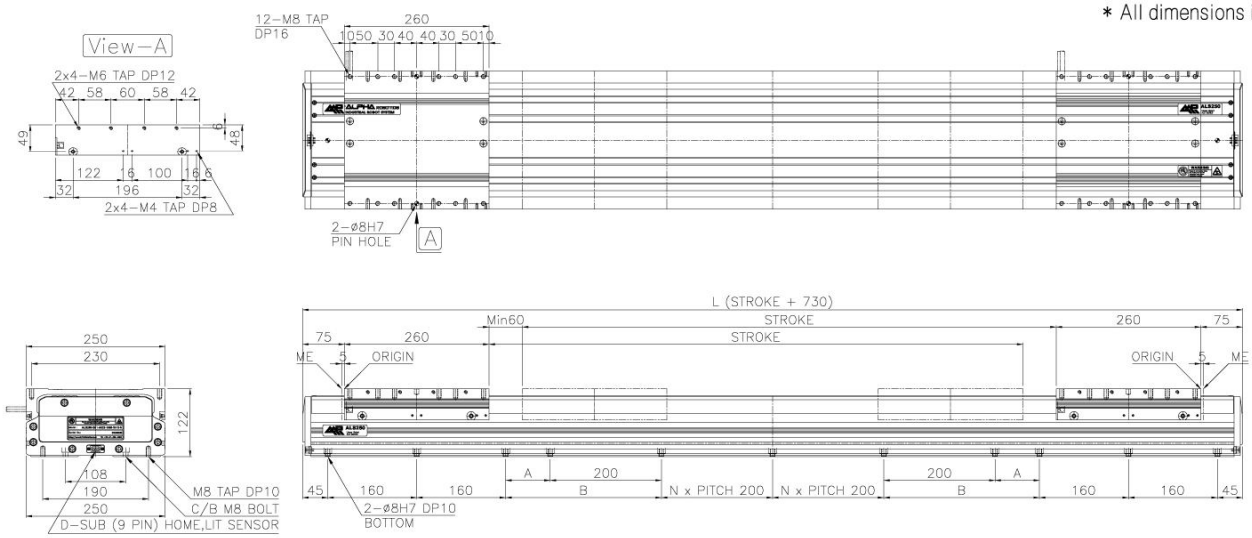
ALS250-1H1

* All dimensions in mm



ALS250-2H1

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS250-1H1-A044	kgf	43.79	59.62	75.44	91.27	122.91	(3.16)
ALS250-2H1-A044	kgf	64.18	80.01	95.83	111.65	143.30	(3.16)

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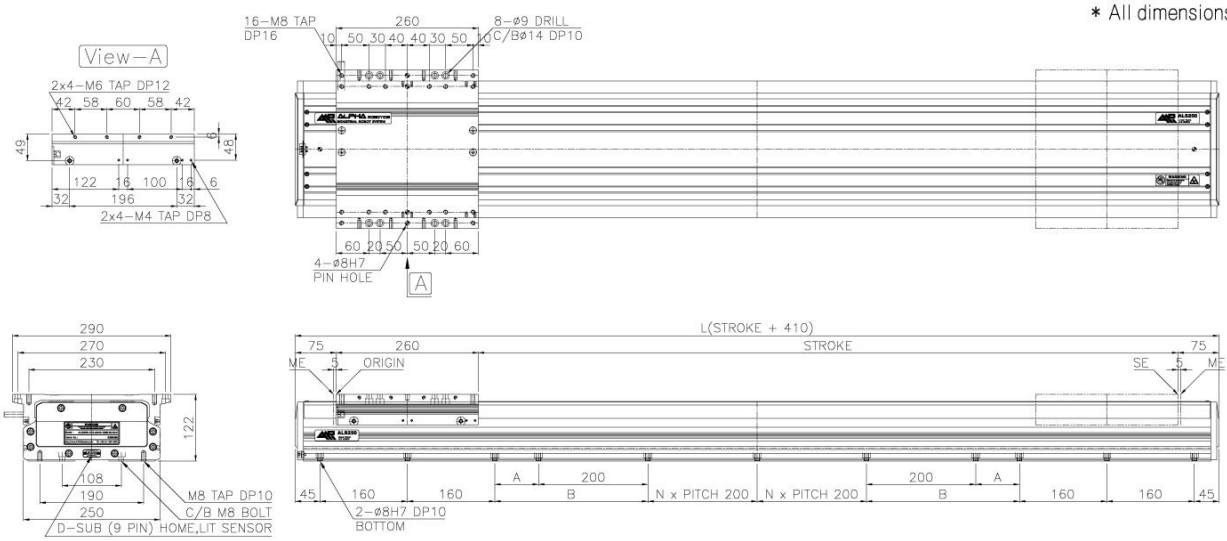
Model / Peak Force	ALS250-1H1 A022 220N	ALS250-1H2 A022 220N	ALS250-1H3 A022 220N	ALS250-1H1 A044 440N	ALS250-1H2 A044 440N	ALS250-1H3 A044 440N		

Specification	Unit	Data
ALS250-1H2-A044		ALS250-2H2-A044
		
Rated Force	N	160
Peak Force	N	440
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 150
LM Guide	-	NO 15, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	70	41	28	18
Allowable Overhang Distance - mm	Horizontal Use	0°	225	375	535	840
		45°	220	360	500	750
		90°	1000	1000	1000	1000
	Wall Installation Use	0°	250	415	580	900
		45°	265	430	610	950
		90°	129	210	300	470
	Note4 Vertical Use	0°	315	480	650	990
		45°	158	240	325	490
		90°	315	480	650	990
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

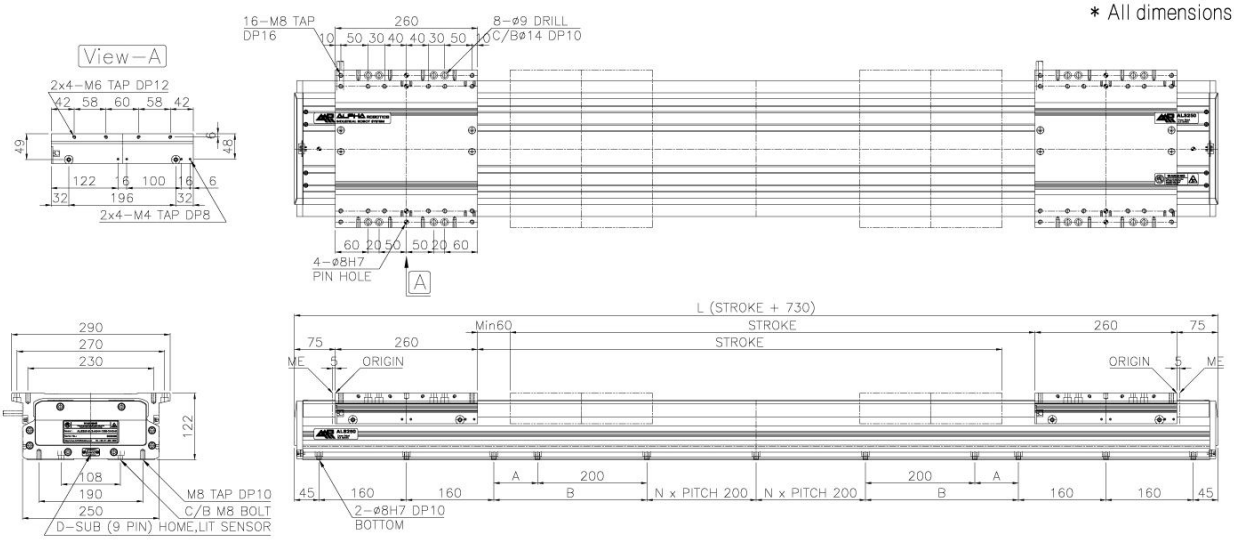
ALS250-1H2

* All dimensions in mm



ALS250-2H2

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS250-1H2-A044	kgf	43.79	59.62	75.44	91.27	122.91	(3.16)
ALS250-2H2-A044	kgf	64.18	80.01	95.83	111.65	143.30	(3.16)

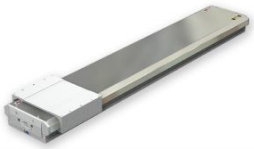
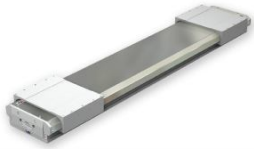
CAUTION

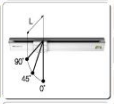
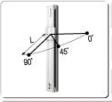
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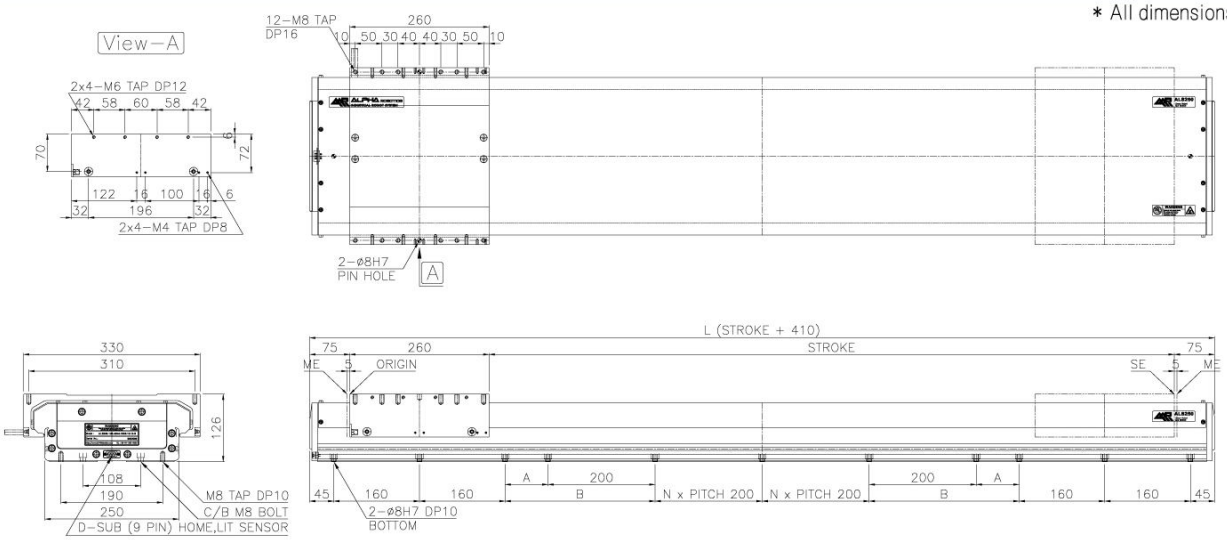
Model / Peak Force	ALS250-1H1 A022 220N	ALS250-1H2 A022 220N	ALS250-1H3 A022 220N	ALS250-1H1 A044 440N	ALS250-1H2 A044 440N	ALS250-1H3 A044 440N

Specification	Unit	Data
ALS250-1H3-A044		ALS250-2H3-A044
		
Rated Force	N	160
Peak Force	N	440
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 150
LM Guide	-	NO 15, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	65	37	24	13
Allowable Overhang Distance - mm	Horizontal Use 	0°	240	420	630	1000
		45°	235	400	580	1000
		90°	1000	1000	1000	1000
	Wall Installation Use 	0°	260	450	670	1000
		45°	275	475	700	1000
		90°	134	230	345	600
	Note4 Vertical Use 	0°	335	530	750	1000
		45°	165	265	375	640
		90°	330	530	750	1000
Note5	Estimated Condition		Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm	

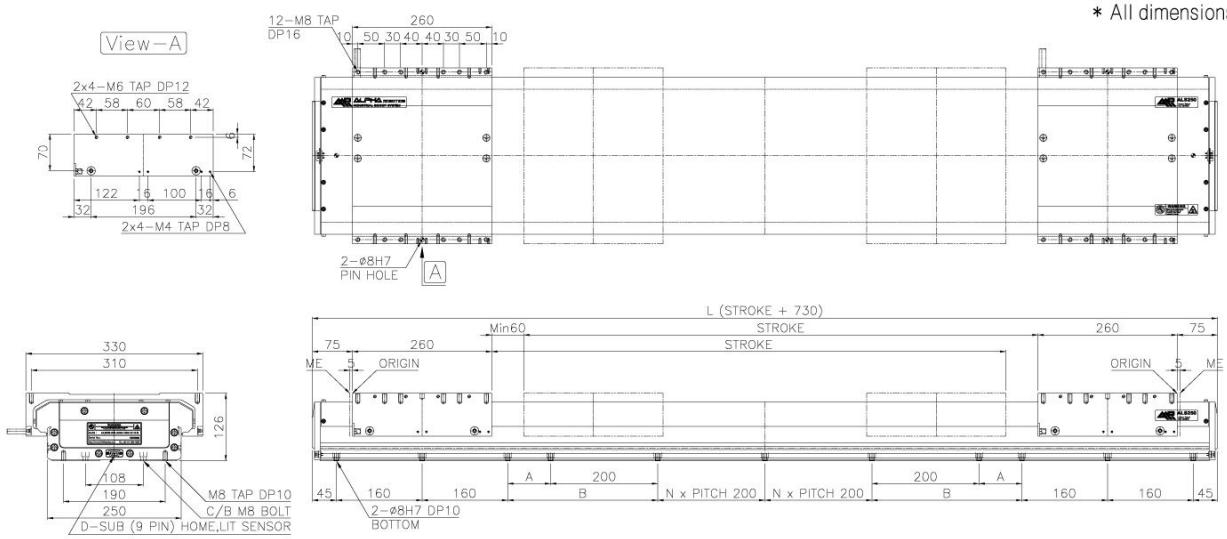
ALS250-1H3

* All dimensions in mm



ALS250-2H3

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS250-1H3-A044	kgf	49.40	65.39	81.39	97.39	129.39	(3.20)
ALS250-2H3-A044	kgf	75.20	91.19	107.19	123.19	155.19	(3.20)

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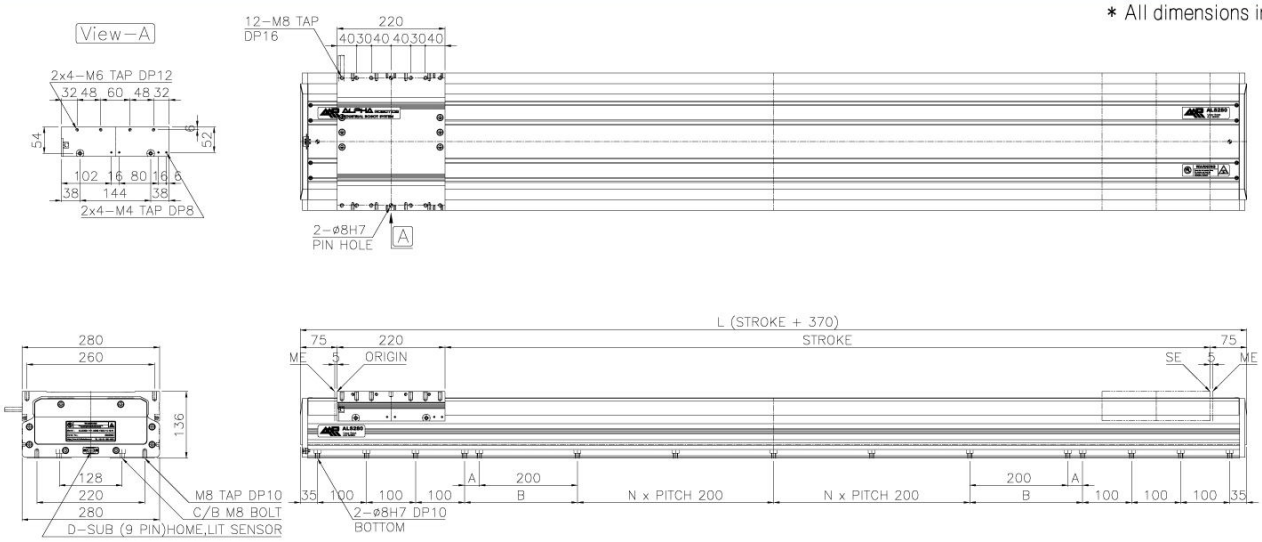
Model Peak Force	ALS280-1H1 A060 600N	ALS280-1H2 A060 600N	ALS280-1H3 A060 600N	ALS280-1H1 A120 1200N	ALS280-1H2 A120 1200N	ALS280-1H3 A120 1200N		

Specification	Unit	Data
ALS280-1H1-A060		ALS280-2H1-A060
		
Rated Force	N	280
Peak Force	N	600
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 200
LM Guide	-	NO 20, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	101	60	42	27
Allowable Overhang Distance - mm	Horizontal Use	0°	305	485	660	985
		45°	285	440	580	820
		90°	1200	1200	1200	1200
	Wall Installation Use	0°	242	388	541	825
		45°	370	578	778	1154
		90°	147	235	321	480
	Note4 Vertical Use	0°	290	435	590	860
		45°	144	219	295	430
		90°	288	440	590	870
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

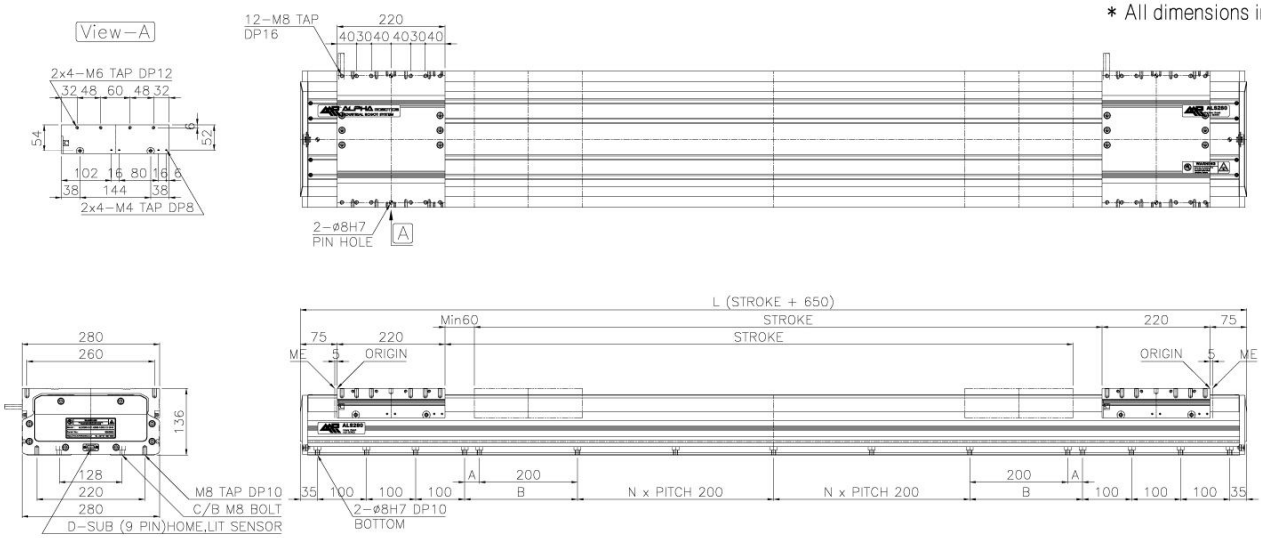
ALS280-1H1

* All dimensions in mm



ALS280-2H1

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS280-1H1-A060	kgf	53.23	73.29	93.36	113.42	153.55	(4.01)
ALS280-2H1-A060	kgf	76.38	96.45	116.51	136.58	176.71	(4.01)

CAUTION

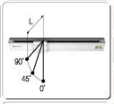
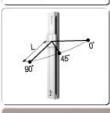
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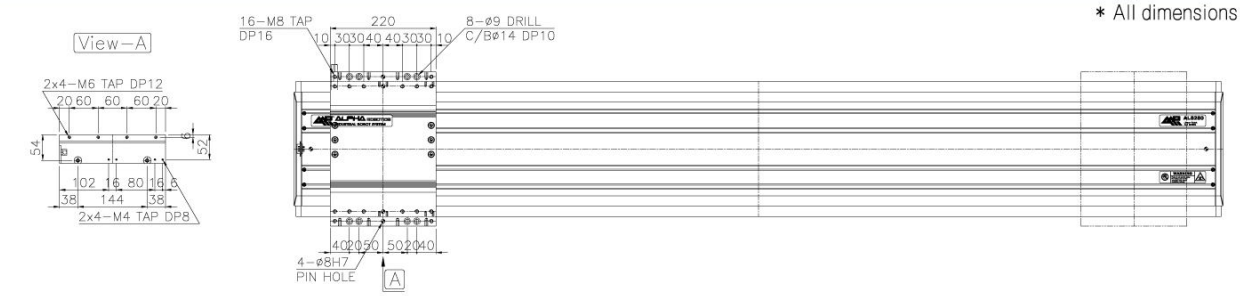
Model / Peak Force	ALS280-1H1 A060 600N	ALS280-1H2 A060 600N	ALS280-1H3 A060 600N	ALS280-1H1 A120 1200N	ALS280-1H2 A120 1200N	ALS280-1H3 A120 1200N		

Specification	Unit	Data
ALS280-1H2-A060		ALS280-2H2-A060
		
Rated Force	N	280
Peak Force	N	600
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 200
LM Guide	-	NO 20, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	101	60	42	27
Allowable Overhang Distance - mm	Horizontal Use 	0°	305	485	660	985
		45°	285	440	580	820
		90°	1200	1200	1200	1200
	Wall Installation Use 	0°	242	388	541	825
		45°	370	578	778	1154
		90°	147	235	321	480
	Note4 Vertical Use 	0°	290	435	590	860
		45°	144	219	295	430
		90°	288	440	590	870
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

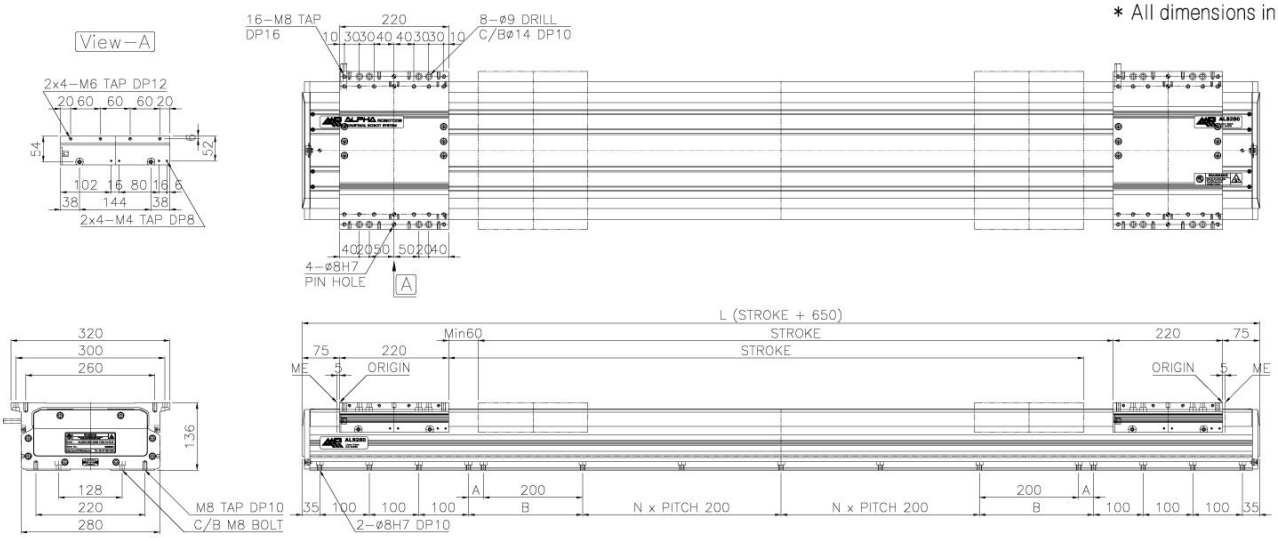
ALS280-1H2

* All dimensions in mm



ALS280-2H2

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS280-1H2-A060	kgf	53.23	73.29	93.36	113.42	153.55	(4.01)
ALS280-2H2-A060	kgf	76.38	96.45	116.51	136.58	176.71	(4.01)

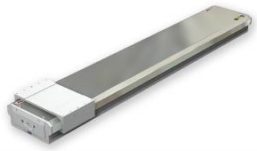
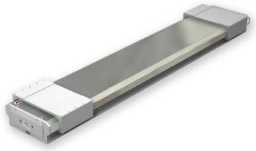
CAUTION

Please be careful of surrounding interference when it is returning to origin because of the slide moves to ME.
ME : Mechanical End
SE : Stroke End

Apply 'B' value, in case of 'A' value is below of 80

NOTE1 It is differed by the drive specification, the maximum speed and using conditions.
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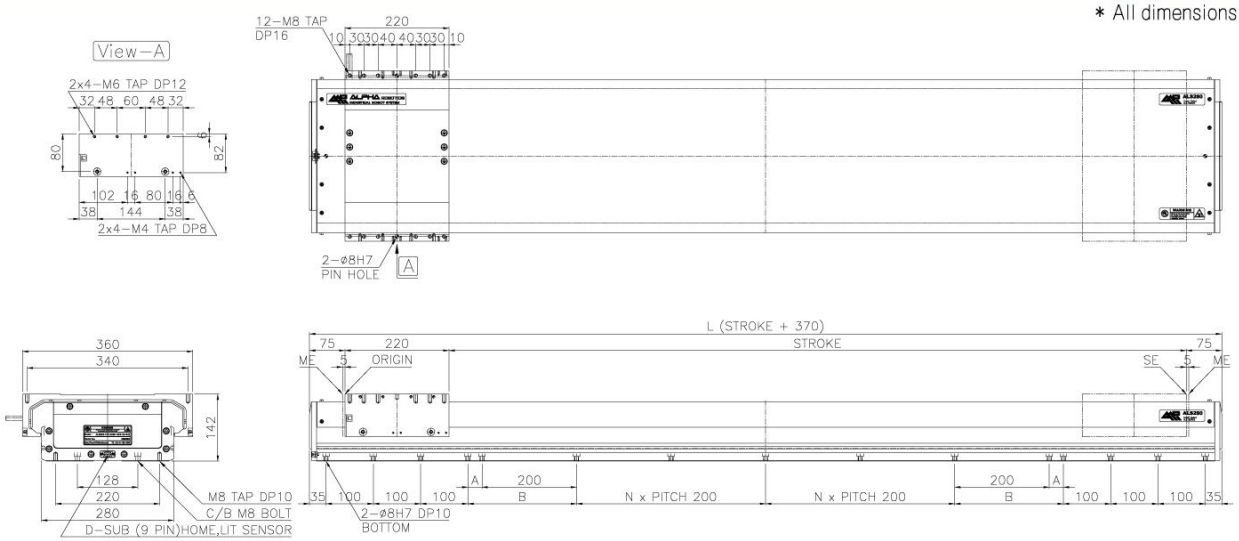
Model / Peak Force	ALS280-1H1 A060 600N	ALS280-1H2 A060 600N	ALS280-1H3 A060 600N	ALS280-1H1 A120 1200N	ALS280-1H2 A120 1200N	ALS280-1H3 A120 1200N		

Specification	Unit	Data
ALS280-1H3-A060		ALS280-2H3-A060
		
Rated Force	N	280
Peak Force	N	600
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 200
LM Guide	-	NO 20, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	97	56	38	23
Allowable Overhang Distance - mm	Horizontal Use	0°	315	520	730	1150
		45°	300	470	640	950
		90°	1200	1200	1200	1200
	Wall Installation Use	0°	250	415	594	960
		45°	380	612	854	1200
		90°	150	248	354	560
	Note4 Vertical Use	0°	300	460	640	1010
		45°	149	230	320	505
		90°	295	465	640	1015
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

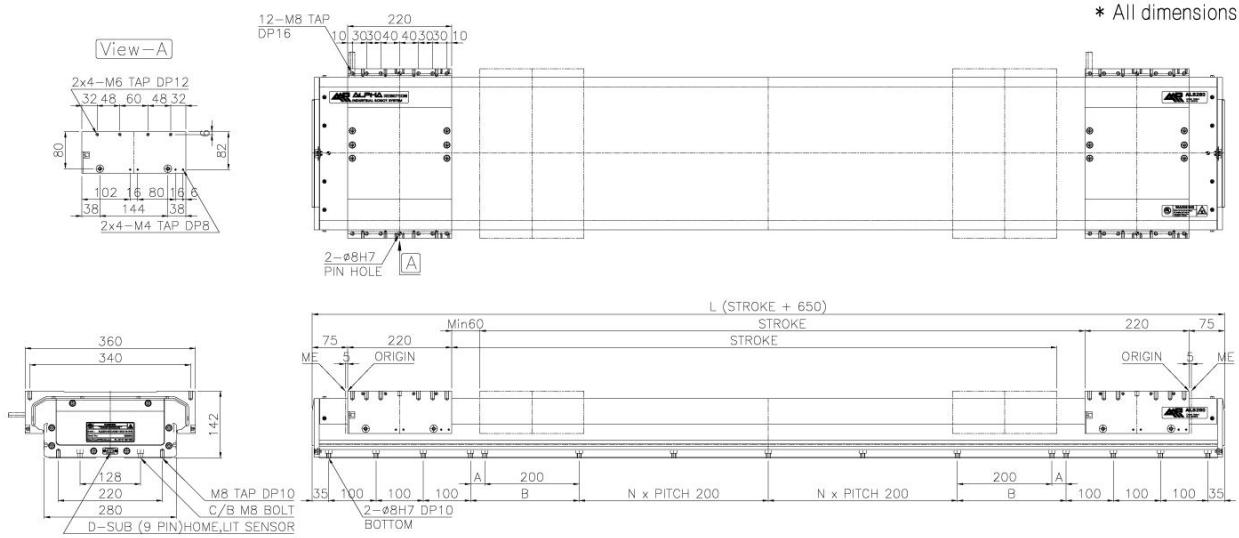
ALS280-1H3

* All dimensions in mm



ALS280-2H3

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS280-1H3-A060	kgf	57.68	77.47	97.27	117.06	156.65	(3.96)
ALS280-2H3-A060	kgf	85.58	105.38	125.17	144.97	184.56	(3.96)

CAUTION

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ME : Mechanical End
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Apply 'B' value, in case of 'A' value is below of 80

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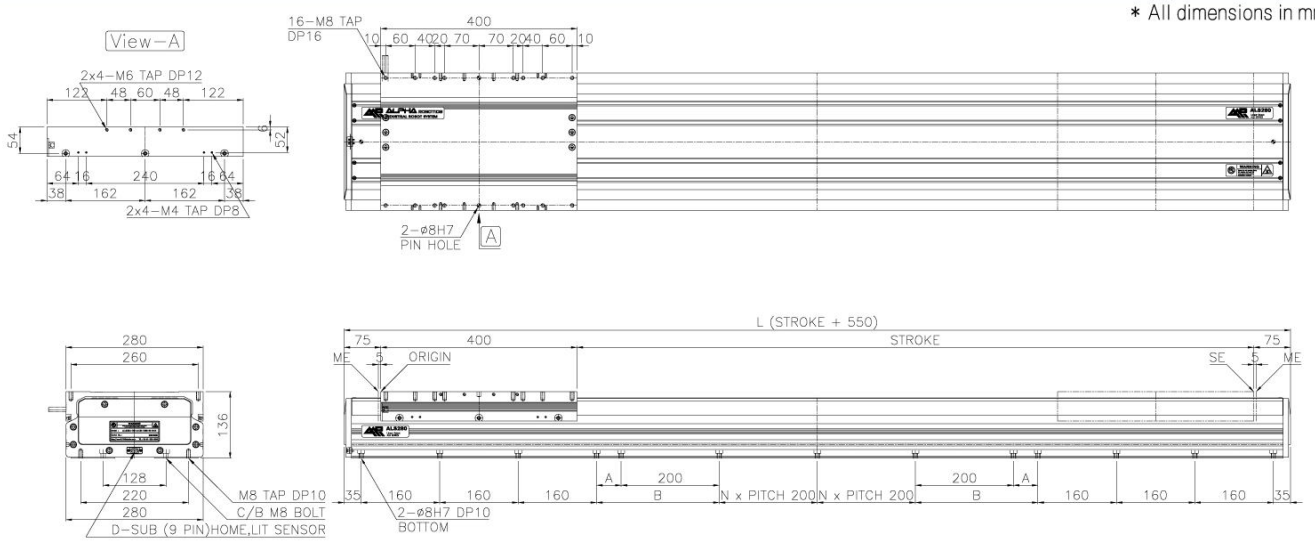
Model / Peak Force	ALS280-1H1 A060 600N	ALS280-1H2 A060 600N	ALS280-1H3 A060 600N	ALS280-1H1 A120 1200N	ALS280-1H2 A120 1200N	ALS280-1H3 A120 1200N		

Specification	Unit	Data
ALS280-1H1-A120		ALS280-2H1-A120
		
Rated Force	N	560
Peak Force	N	1200
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 200
LM Guide	-	NO 20, 3Rail 9Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	200	126	88	57
Allowable Overhang Distance - mm	Horizontal Use	0°	150	240	340	520
		45°	145	235	330	490
		90°	1200	1200	1200	1200
	Wall Installation Use	0°	230	365	506	770
		45°	160	258	365	565
		90°	95	151	214	327
	Note4 Vertical Use	0°	305	440	590	860
		45°	152	220	295	430
		90°	305	440	590	860
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

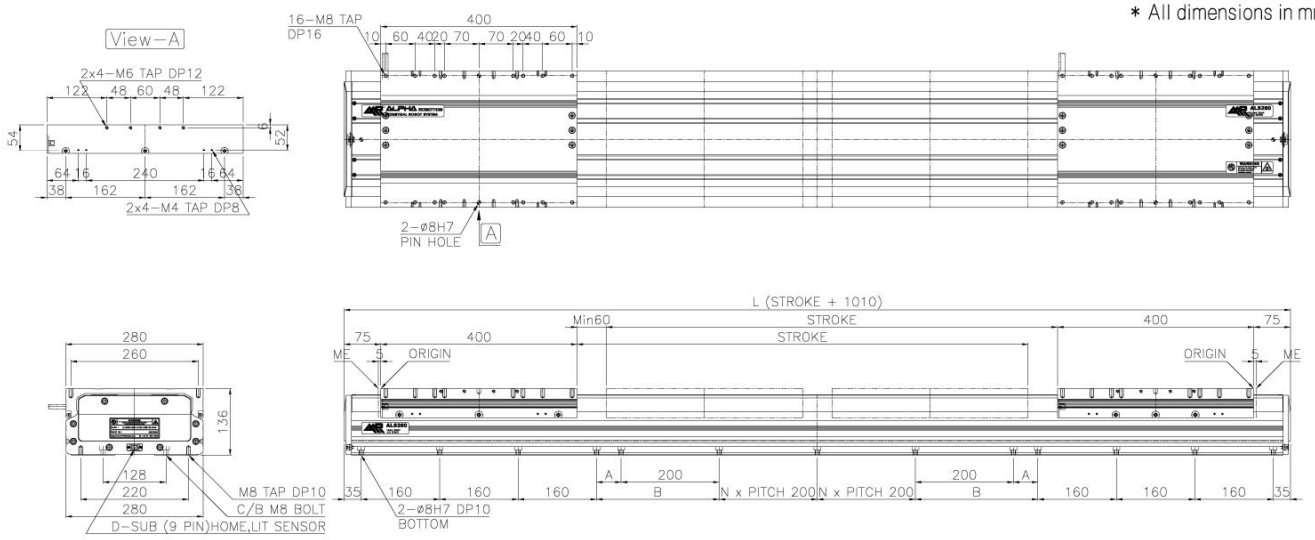
ALS280-1H1

* All dimensions in mm



ALS280-2H1

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS280-1H1-A120	kgf	68.68	87.38	106.08	124.78	162.18	(3.74)
ALS280-2H1-A120	kgf	108.78	127.48	146.18	164.88	202.29	(3.74)

CAUTION

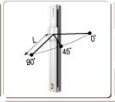
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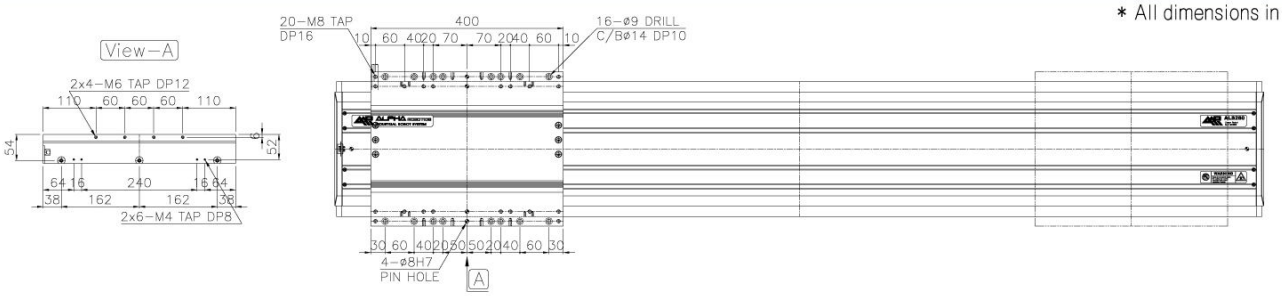
Model / Peak Force	ALS280-1H1 A060 600N	ALS280-1H2 A060 600N	ALS280-1H3 A060 600N	ALS280-1H1 A120 1200N	ALS280-1H2 A120 1200N	ALS280-1H3 A120 1200N		

Specification	Unit	Data
ALS280-1H2-A120		ALS280-2H2-A120
		
Rated Force	N	560
Peak Force	N	1200
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 200
LM Guide	-	NO 20, 3Rail 9Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	200	126	88	57
Allowable Overhang Distance - mm	Horizontal Use 	0°	150	240	340	520
		45°	145	235	330	490
		90°	1200	1200	1200	1200
	Wall Installation Use 	0°	230	365	506	770
		45°	160	258	365	565
		90°	95	151	214	327
	Note4 Vertical Use 	0°	305	440	590	860
		45°	152	220	295	430
		90°	305	440	590	860
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

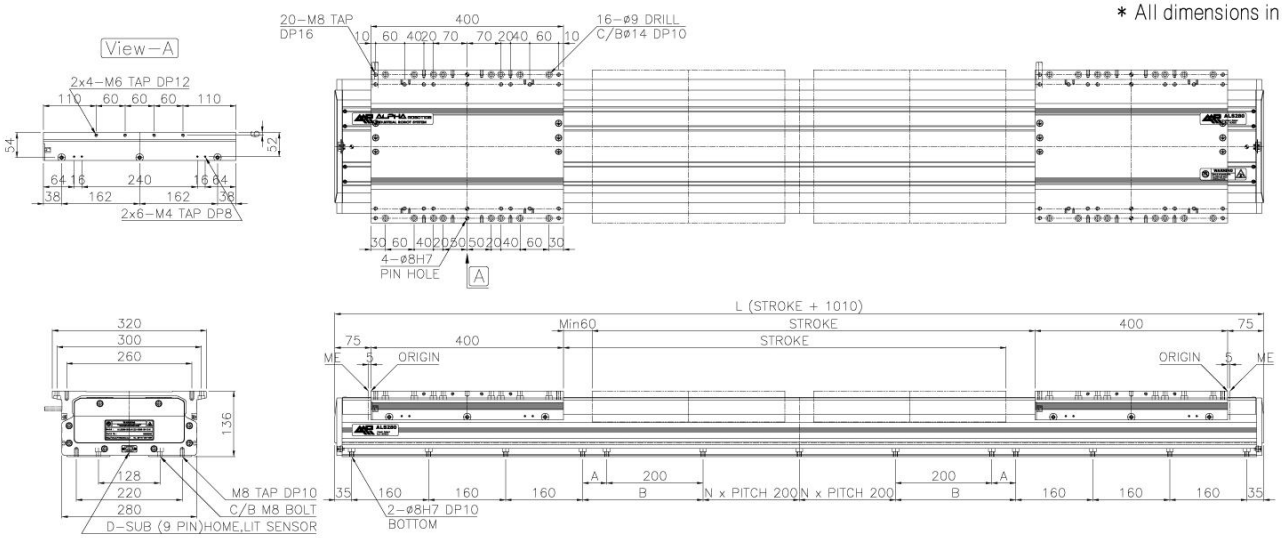
ALS280-1H2

* All dimensions in mm



ALS280-2H2

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS280-1H2-A120	kgf	68.68	87.38	106.08	124.78	162.18	(3.74)
ALS280-2H2-A120	kgf	108.78	127.48	146.18	164.88	202.29	(3.74)

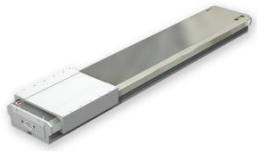
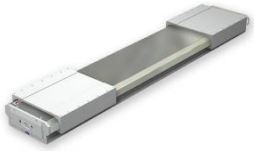
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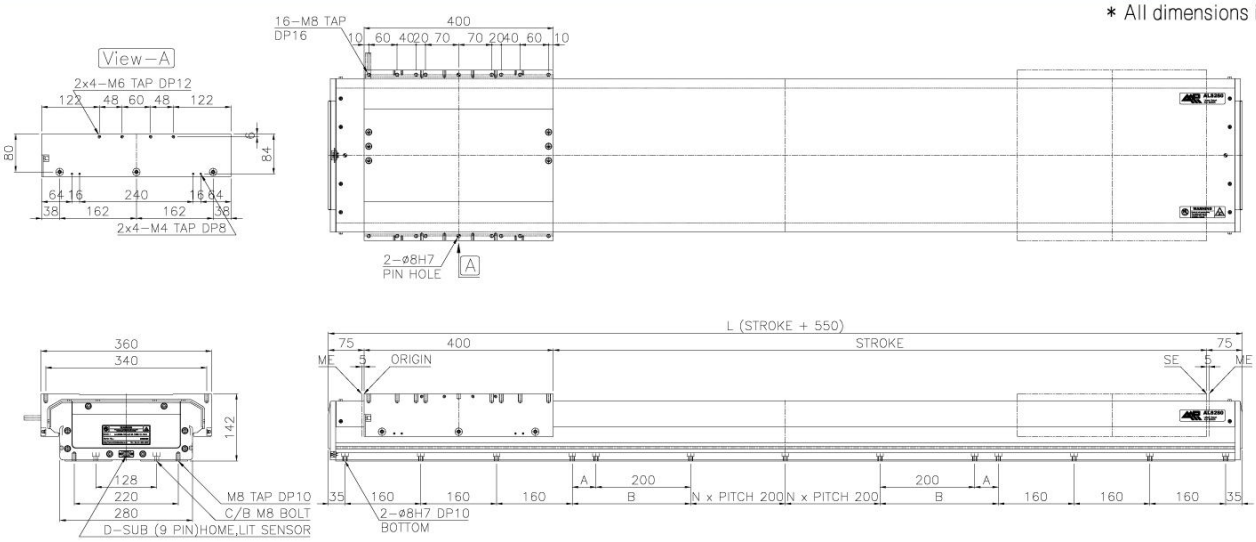
Model / Peak Force	ALS280-1H1 A060 600N	ALS280-1H2 A060 600N	ALS280-1H3 A060 600N	ALS280-1H1 A120 1200N	ALS280-1H2 A120 1200N	ALS280-1H3 A120 1200N

Specification	Unit	Data
ALS280-1H3-A120		ALS280-2H3-A120
		
Rated Force	N	560
Peak Force	N	1200
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 200
LM Guide	-	NO 20, 3Rail 9Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	200	119	81	50
Allowable Overhang Distance - mm	Horizontal Use	0°	148	255	370	600
		45°	145	250	355	570
		90°	1200	1200	1200	1200
	Wall Installation Use	0°	225	378	545	870
		45°	160	271	394	640
		90°	92	158	228	370
	Note4 Vertical Use	0°	305	460	640	970
		45°	152	230	320	490
		90°	305	465	640	980
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

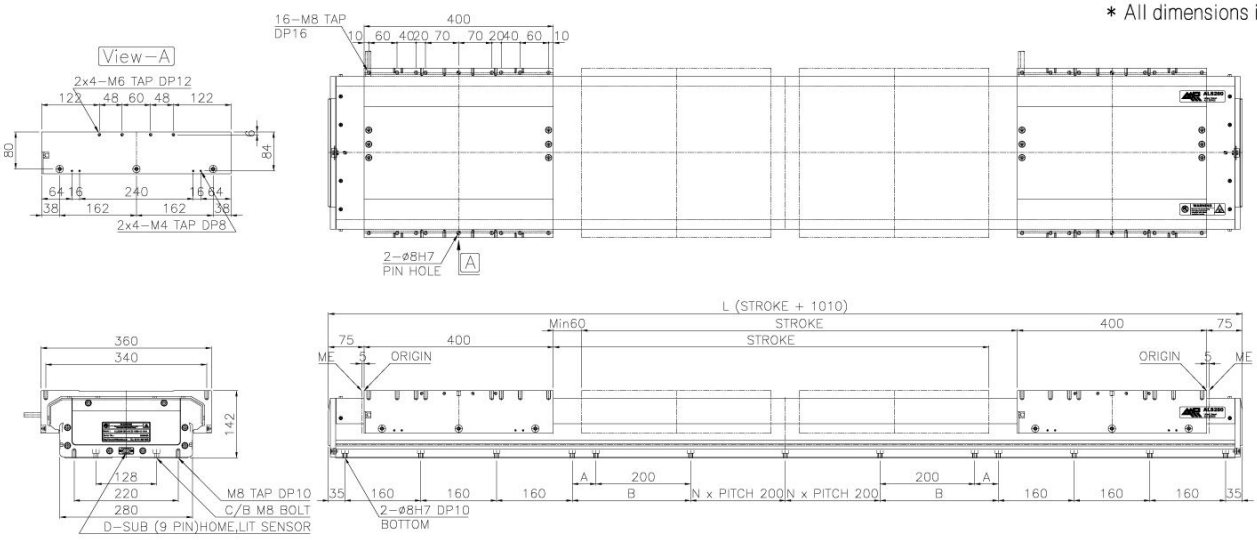
ALS280-1H3

* All dimensions in mm



ALS280-2H3

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS280-1H3-A120	kgf	79.80	99.59	119.39	139.18	178.77	(3.96)
ALS280-2H3-A120	kgf	129.82	149.61	169.41	189.20	228.79	(3.96)

CAUTION

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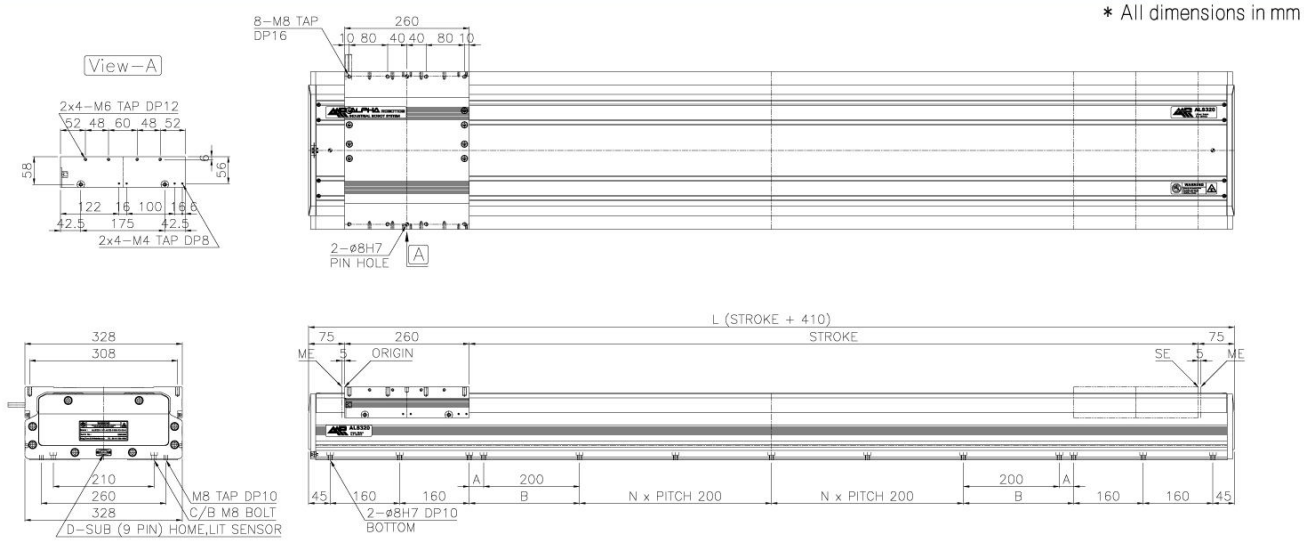
Model / Peak Force	ALS320-1H1 A120 1200N	ALS320-1H2 A120 1200N	ALS320-1H3 A120 1200N	ALS320-1H1 A240 2400N	ALS320-1H2 A240 2400N	ALS320-1H3 A240 2400N		

Specification	Unit	Data
ALS320-1H1-A120		ALS320-2H1-A120
		
Rated Force	N	560
Peak Force	N	1200
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 250
LM Guide	-	NO 25, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	211	129	90	60
Allowable Overhang Distance - mm	Horizontal Use	0°	185	300	405	590
		45°	174	270	355	490
		90°	800	950	1080	1290
	Wall Installation Use	0°	130	215	299	441
		45°	230	360	485	698
		90°	83	135	187	275
	Note4 Vertical Use	0°	175	255	340	485
		45°	87	129	170	240
		90°	175	260	340	485
Note5	Estimated Condition	Max Speed : 2000 mm/sec Life Time : 15000 hr Waiting Time : 0 sec Stroke : 2000 mm				

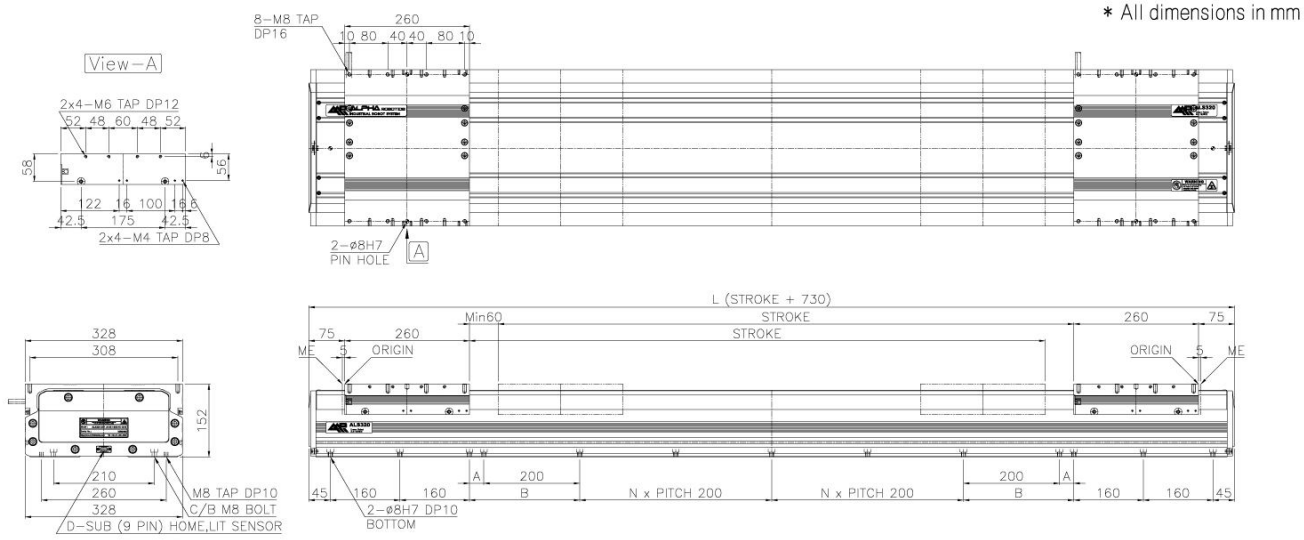
ALS320-1H1

* All dimensions in mm



ALS320-2H1

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS320-1H1-A120	kgf	68.82	91.41	113.99	136.57	181.73	(4.52)
ALS320-2H1-A120	kgf	102.81	125.39	147.97	170.55	215.72	(4.52)

CAUTION

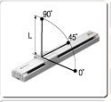
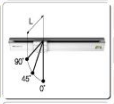
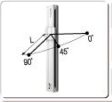
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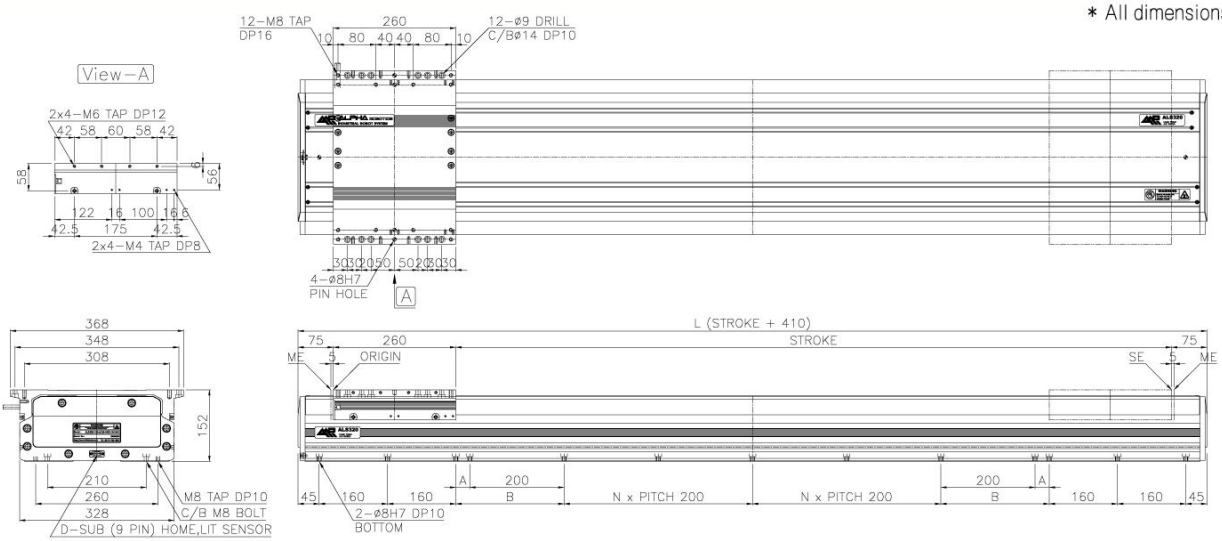
Model Peak Force	ALS320-1H1 A120 1200N	ALS320-1H2 A120 1200N	ALS320-1H3 A120 1200N	ALS320-1H1 A240 2400N	ALS320-1H2 A240 2400N	ALS320-1H3 A240 2400N		

Specification	Unit	Data
ALS320-1H2-A120		ALS320-2H2-A120
		
Rated Force	N	560
Peak Force	N	1200
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 250
LM Guide	-	NO 25, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	211	129	90	60
Allowable Overhang Distance - mm	Horizontal Use 	0°	185	300	405	590
		45°	174	270	355	490
		90°	800	950	1080	1290
	Wall Installation Use 	0°	130	215	299	441
		45°	230	360	485	698
		90°	83	135	187	275
	Note4 Vertical Use 	0°	175	255	340	485
		45°	87	129	170	240
		90°	175	260	340	485
Note5	Estimated Condition		Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm	

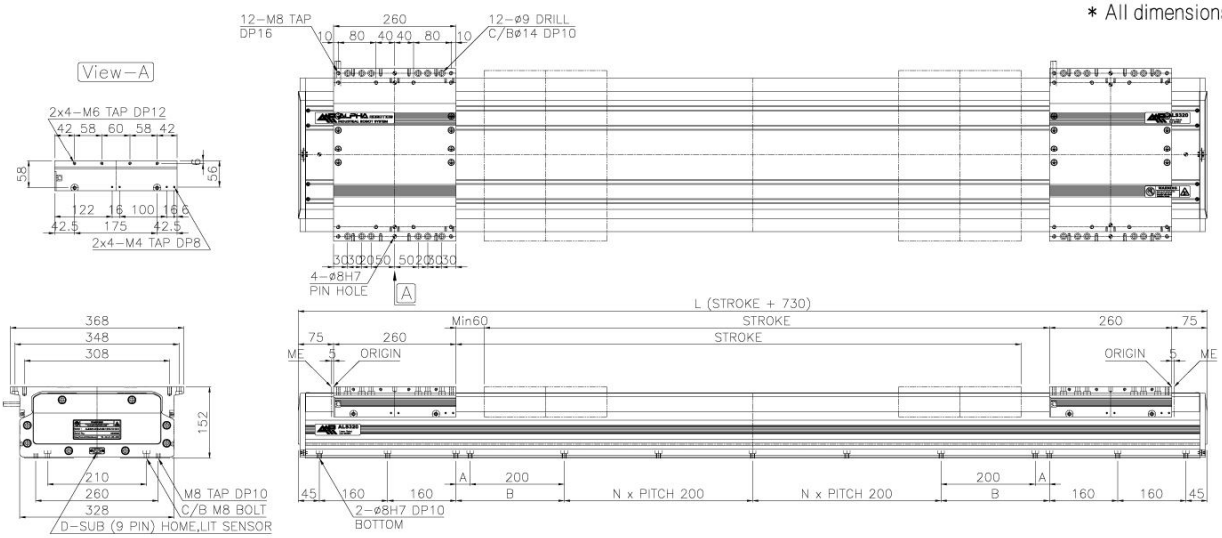
ALS320-1H2

* All dimensions in mm



ALS320-2H2

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS320-1H2-A120	kgf	68.82	91.41	113.99	136.57	181.73	(4.52)
ALS320-2H2-A120	kgf	102.81	125.39	147.97	170.55	215.72	(4.52)

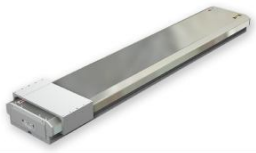
CAUTION

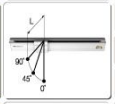
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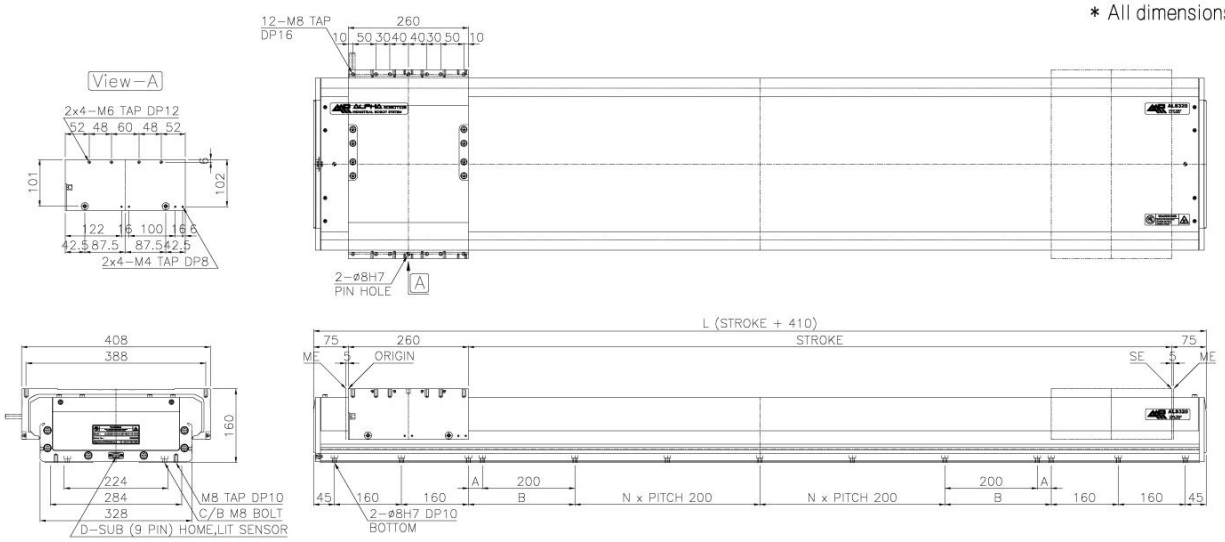
Model / Peak Force	ALS320-1H1 A120 1200N	ALS320-1H2 A120 1200N	ALS320-1H3 A120 1200N	ALS320-1H1 A240 2400N	ALS320-1H2 A240 2400N	ALS320-1H3 A240 2400N		

Specification	Unit	Data
ALS320-1H3-A120 		ALS320-2H3-A120 
Rated Force	N	560
Peak Force	N	1200
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 250
LM Guide	-	NO 25, 3Rail 6Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	200	120	83	54
Allowable Overhang Distance - mm	Horizontal Use 	0°	195	320	445	660
		45°	185	290	385	545
		90°	850	1020	1170	1430
	Wall Installation Use 	0°	139	230	325	495
		45°	240	390	530	780
		90°	89	145	203	305
	Note4 Vertical Use 	0°	183	730	365	540
		45°	91	365	184	270
		90°	183	275	365	540
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

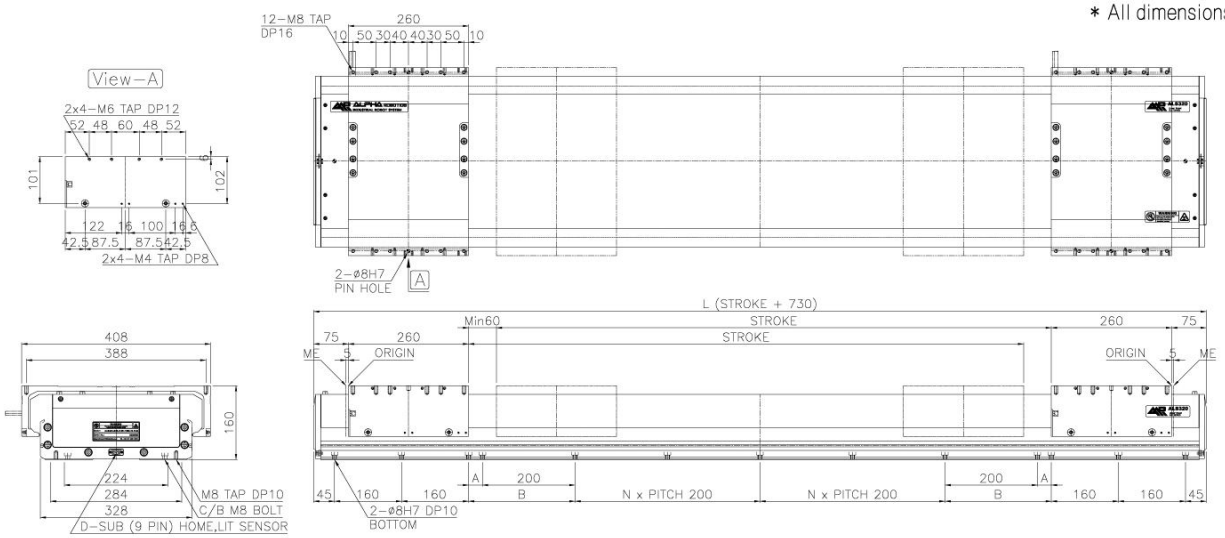
ALS320-1H3

* All dimensions in mm



ALS320-2H3

* All dimensions in mm



Model / Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS320-1H3-A120	kgf	73.45	95.67	117.88	140.10	184.53	(4.44)
ALS320-2H3-A120	kgf	112.47	134.68	156.90	179.11	223.55	(4.44)

CAUTION

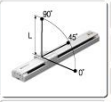
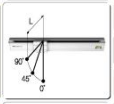
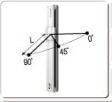
Please be careful of surrounding interference when it is returning to origin because of the slide moves to ME.
ME : Mechanical End
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Apply 'B' value, in case of 'A' value is below of 80

NOTE1 It is differed by the drive specification, the maximum speed and using conditions.
NOTE2 In case of the short stroke, it may not be reached at maximum speed.
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NOTE4 Please discuss with our company when Vertical Use is applied.
NOTE5 When the robot collides with an excessive overhang setting, the robot may be subject to a large impact and damaged.

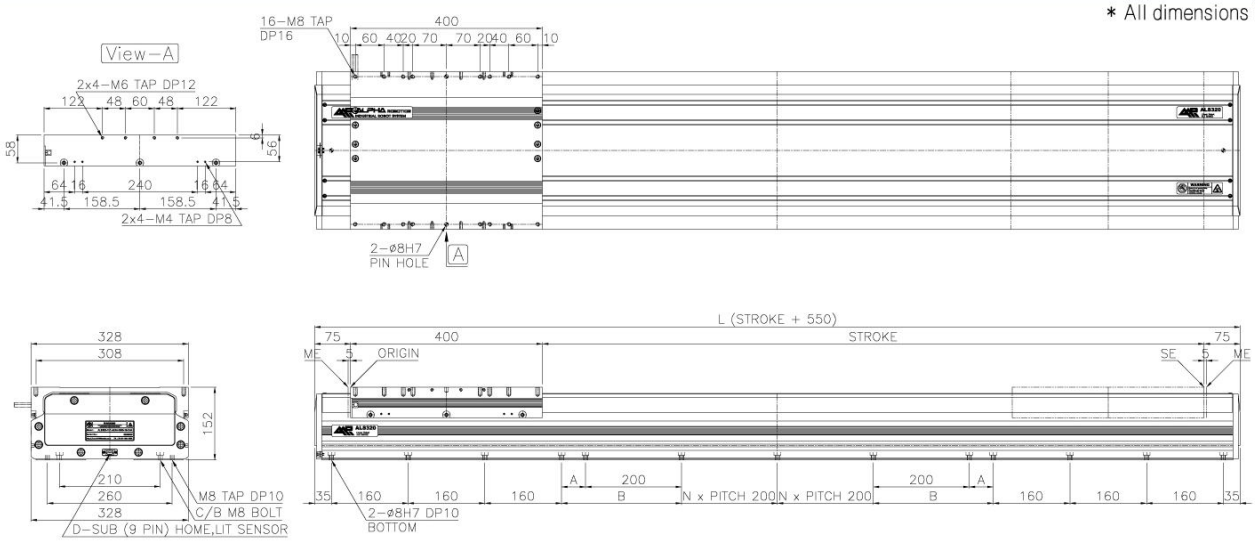
Model / Peak Force	ALS320-1H1 A120 1200N	ALS320-1H2 A120 1200N	ALS320-1H3 A120 1200N	ALS320-1H1 A240 2400N	ALS320-1H2 A240 2400N	ALS320-1H3 A240 2400N		

Specification	Unit	Data
ALS320-1H1-A240		ALS320-2H1-A240
		
Rated Force	N	1120
Peak Force	N	2400
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 250
LM Guide	-	NO 25, 3Rail 9Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	250	250	190	128
Allowable Overhang Distance - mm	Horizontal Use 	0°	165	144	190	295
		45°	160	140	185	280
		90°	1445	980	1070	1290
	Wall Installation Use 	0°	215	185	250	375
		45°	180	155	209	320
		90°	98	85	114	170
	Note4 Vertical Use 	0°	295	260	325	455
		45°	148	130	160	225
		90°	295	260	325	455
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

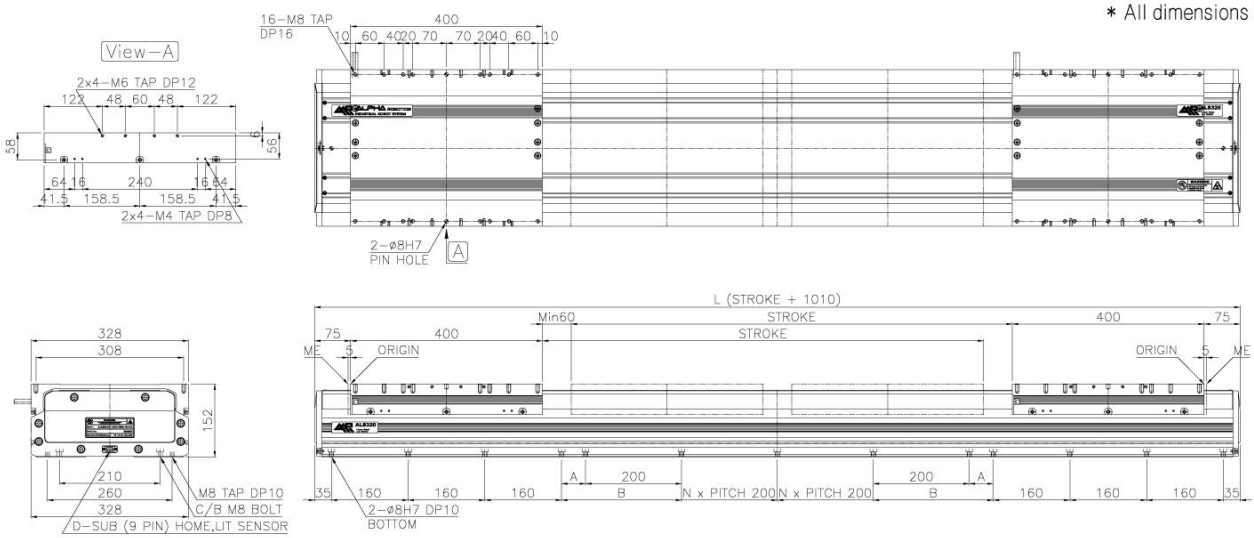
ALS320-1H1

* All dimensions in mm



ALS320-2H1

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS320-1H1-A240	kgf	92.98	118.30	143.62	168.94	219.59	(5.06)
ALS320-2H1-A240	kgf	148.11	173.43	198.75	224.07	274.71	(5.06)

CAUTION

Please be careful of surrounding interference when it is returning to origin because of the slide moves to ME.
ME : Mechanical End
SE : Stroke End

Apply 'B' value, in case of 'A' value is below of 80

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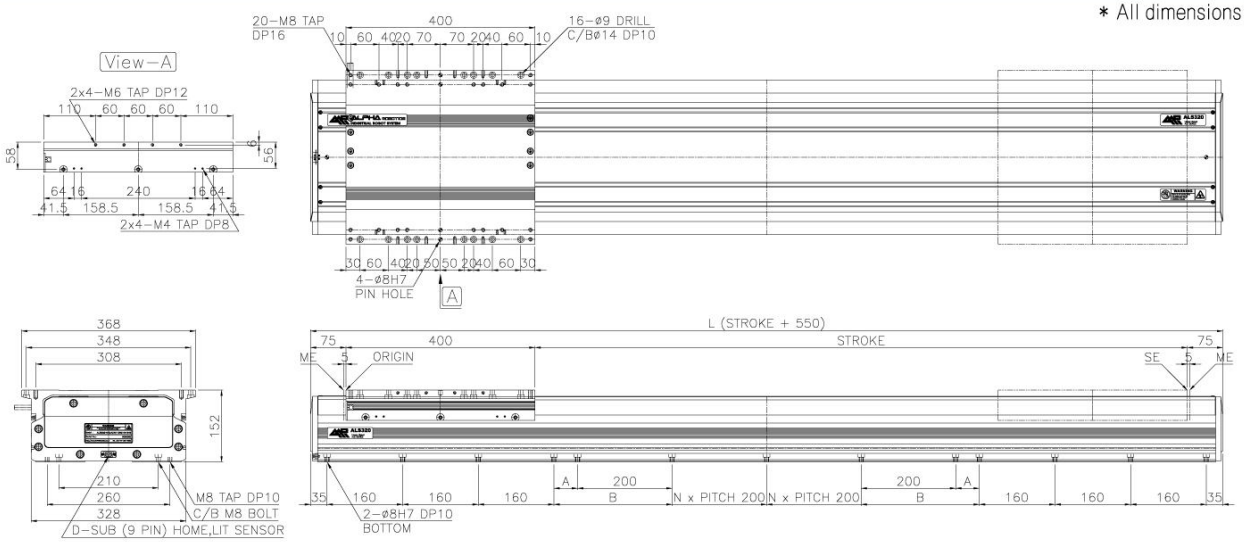
Model / Peak Force	ALS320-1H1 A120 1200N	ALS320-1H2 A120 1200N	ALS320-1H3 A120 1200N	ALS320-1H1 A240 2400N	ALS320-1H2 A240 2400N	ALS320-1H3 A240 2400N		

Specification	Unit	Data
ALS320-1H2-A240		ALS320-2H2-A240
		
Rated Force	N	1120
Peak Force	N	2400
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 250
LM Guide	-	NO 25, 3Rail 9Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	250	250	190	128
Allowable Overhang Distance - mm	Horizontal Use	0°	165	144	190	295
		45°	160	140	185	280
		90°	1445	980	1070	1290
	Wall Installation Use	0°	215	185	250	375
		45°	180	155	209	320
		90°	98	85	114	170
	Note4 Vertical Use	0°	295	260	325	455
		45°	148	130	160	225
		90°	295	260	325	455
Note5	Estimated Condition	Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm		

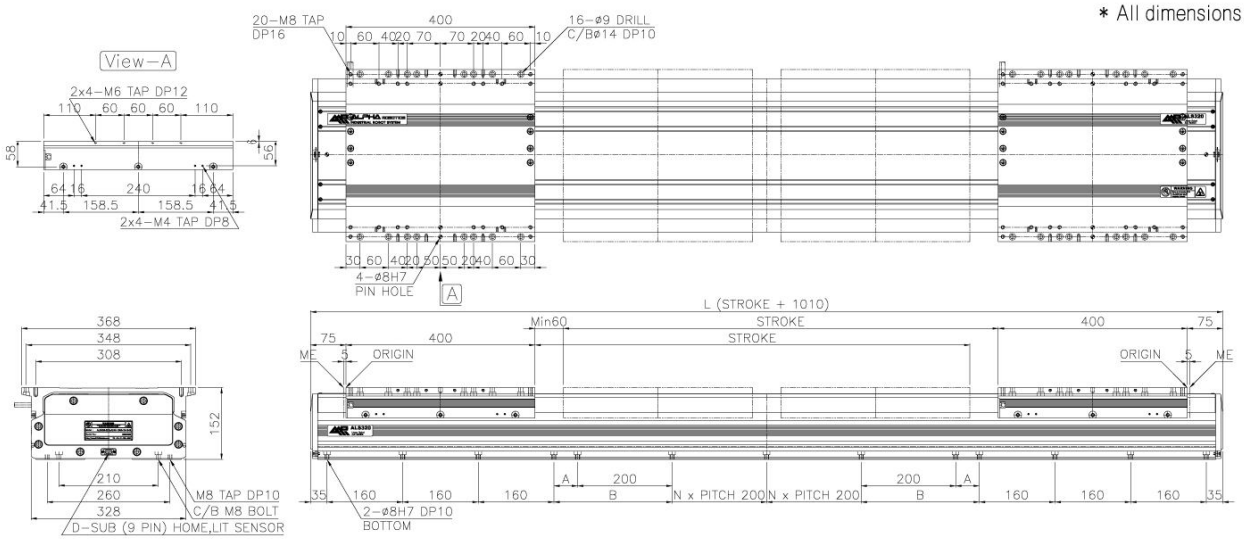
ALS320-1H2

* All dimensions in mm



ALS320-2H2

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS320-1H2-A240	kgf	92.98	118.30	143.62	168.94	219.59	(5.06)
ALS320-2H2-A240	kgf	148.11	173.43	198.75	224.07	274.71	(5.06)

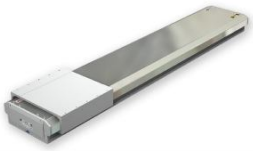
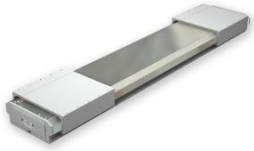
CAUTION

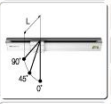
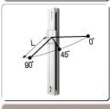
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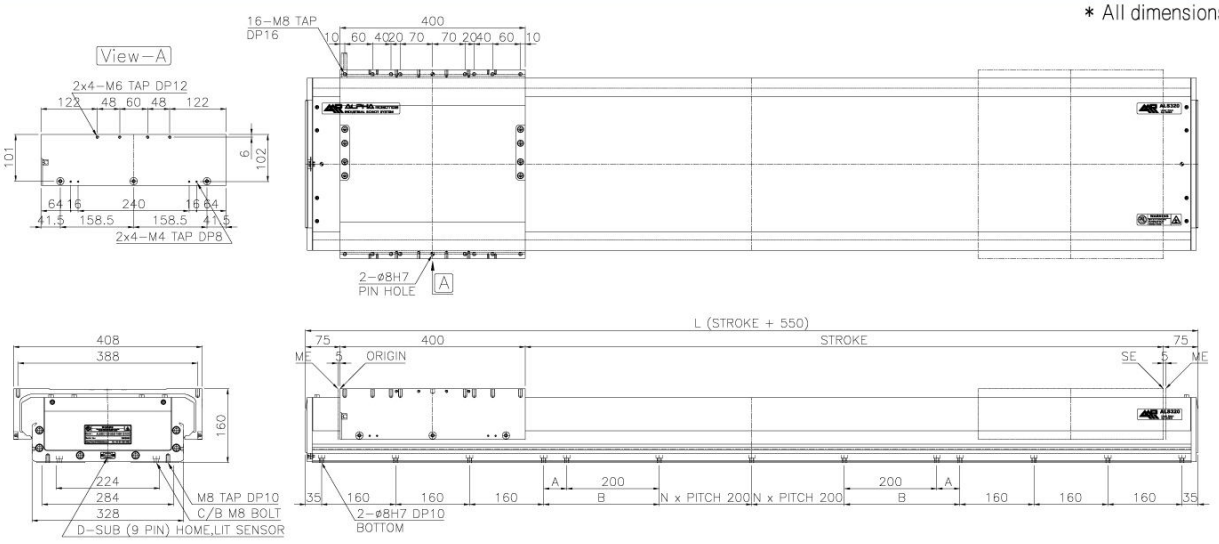
Model / Peak Force	ALS320-1H1 A120 1200N	ALS320-1H2 A120 1200N	ALS320-1H3 A120 1200N	ALS320-1H1 A240 2400N	ALS320-1H2 A240 2400N	ALS320-1H3 A240 2400N

Specification	Unit	Data
ALS320-1H3-A240		ALS320-2H3-A240
		
Rated Force	N	1120
Peak Force	N	2400
Resolution	㎛	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 2500
Max. Stroke	mm	20000
Max. Load	kgf	Note3 250
LM Guide	-	NO 25, 3Rail 9Block

Specification		Unit	Data			
Acceleration		G	0.3	0.5	0.7	1.0
Load		kgf	250	250	186	124
Allowable Overhang Distance - mm	Horizontal Use 	0°	165	143	195	305
		45°	160	139	190	290
		90°	1440	980	1100	1340
	Wall Installation Use 	0°	215	185	250	385
		45°	179	154	210	325
		90°	98	84	114	175
	Note4 Vertical Use 	0°	295	260	330	470
		45°	147	130	165	235
		90°	290	260	330	470
Note5	Estimated Condition		Max Speed : 2000 mm/sec Waiting Time : 0 sec		Life Time : 15000 hr Stroke : 2000 mm	

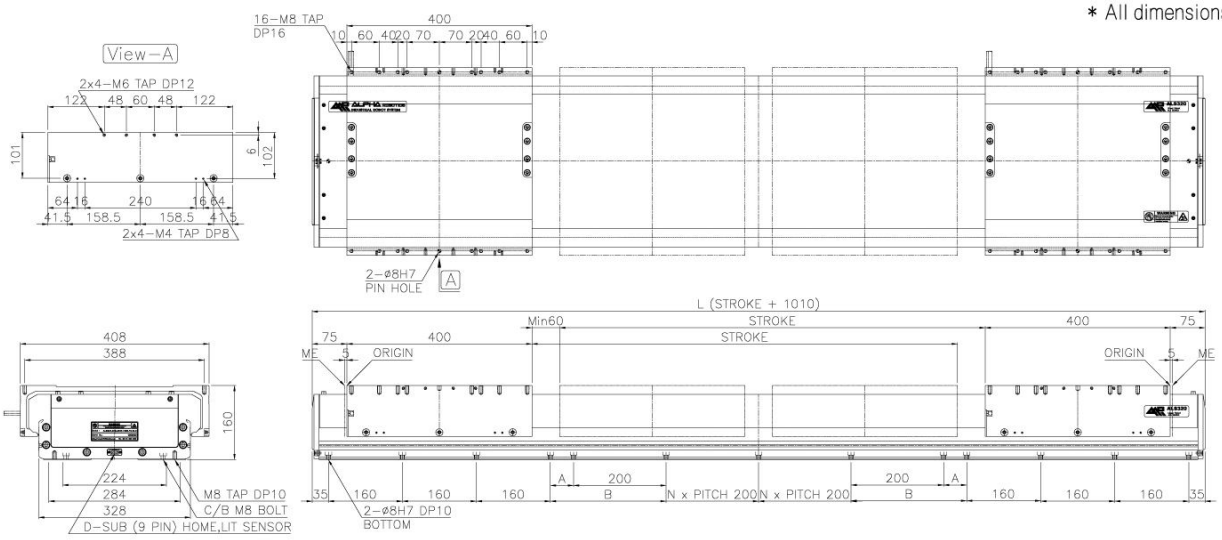
ALS320-1H3

* All dimensions in mm



ALS320-2H3

* All dimensions in mm



Model \ Stroke	Units	500	1000	1500	2000	3000	Offset(100)
ALS320-1H3-A240	kgf	97.81	122.77	147.72	172.68	222.59	(4.99)
ALS320-2H3-A240	kgf	158.17	183.13	208.08	233.04	282.95	(4.99)

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