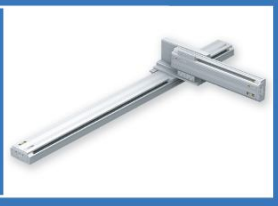
ALPHA ROBOTICS LINEAR + LINEAR ROBOT



ALR ASSEMBLY

LINEAR + LINEAR ROBOT

STD | PRO GRAM | mm | mm/s | kg | CE



"A" TYPE 70.1

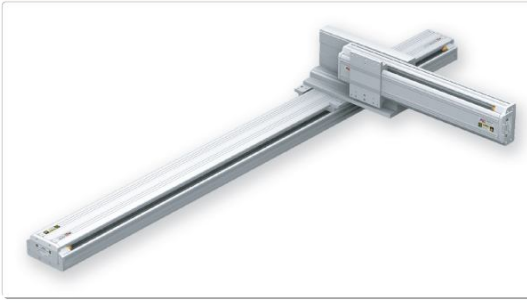
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"C" TYPE 71.1

"K" TYPE 72.1

"H" TYPE 73.1

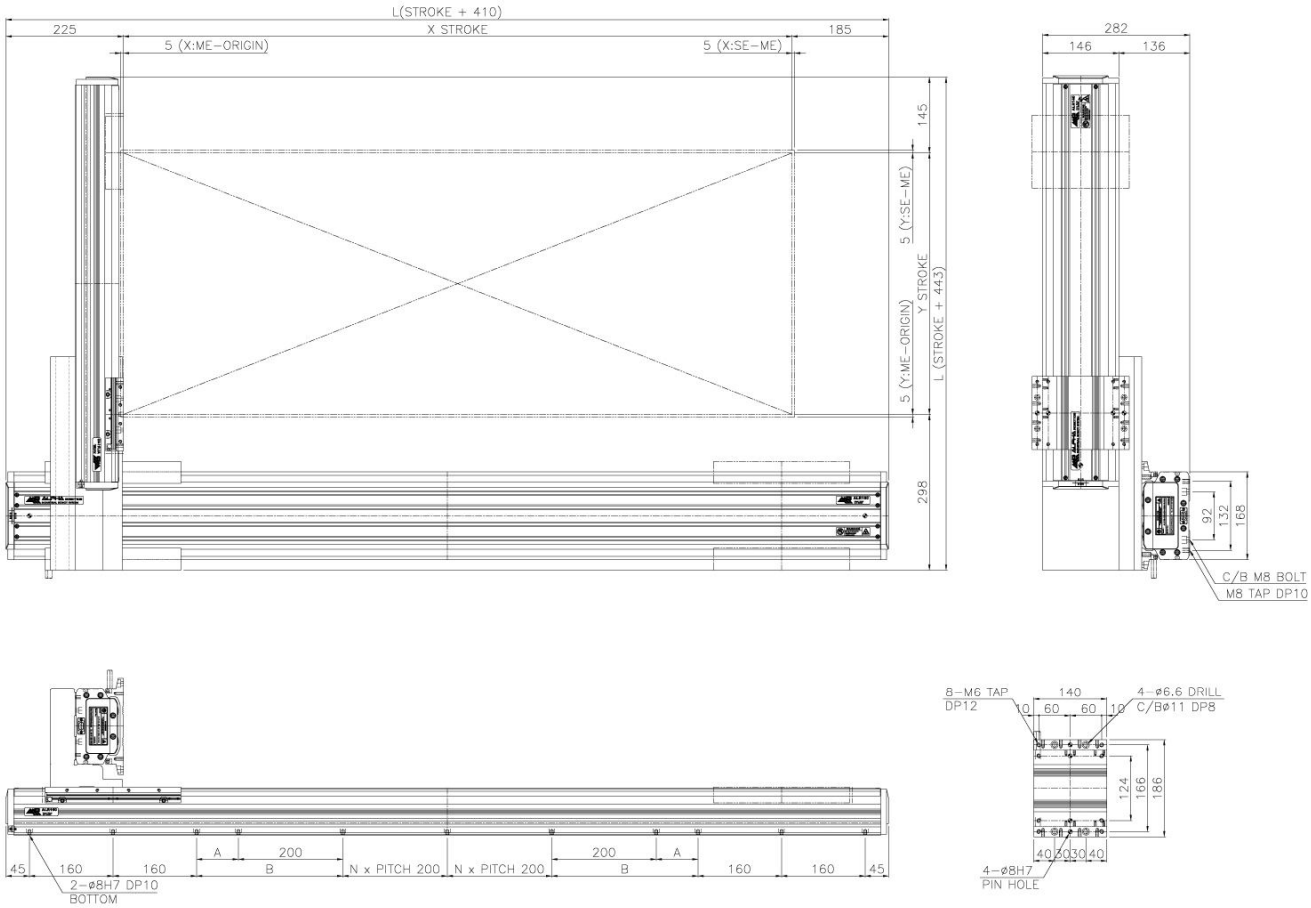
Model Peak Force | **A Type ALR+ALR** | C Type ALR+ALR | K Type ALR+ALR | H Type ALR+ALG



Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR160-1S2-A044	ALR140-1S2-A012
Rated Force	N	160	40
Peak Force	N	440	125
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	1500	500
Max. Load	kgf	Note3 (75)	Note3 15
LM Guide	-	No 15, 2Rail 4Block	No 15, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm



Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALR140-1S2-A012	kgf	15	15	15	12	7	-	-	-

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 different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

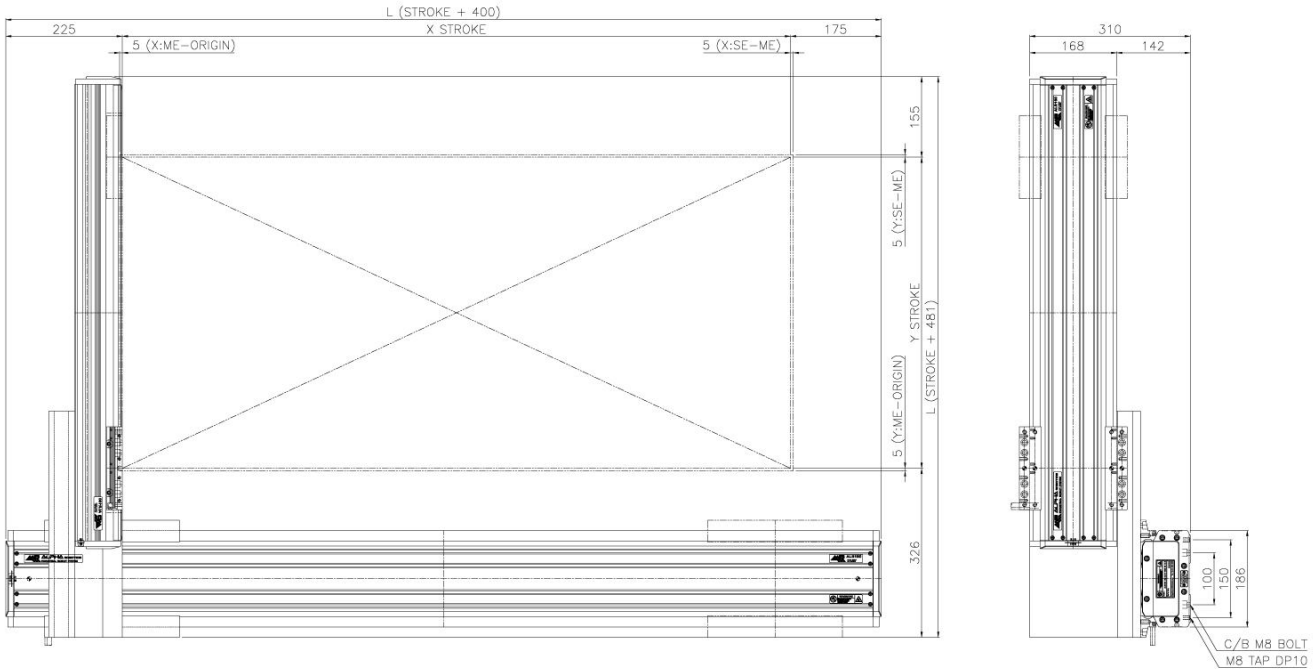
Model Peak Force | **A Type ALR+ALR** | C Type ALR+ALR | K Type ALR+ALR | H Type ALR+ALG

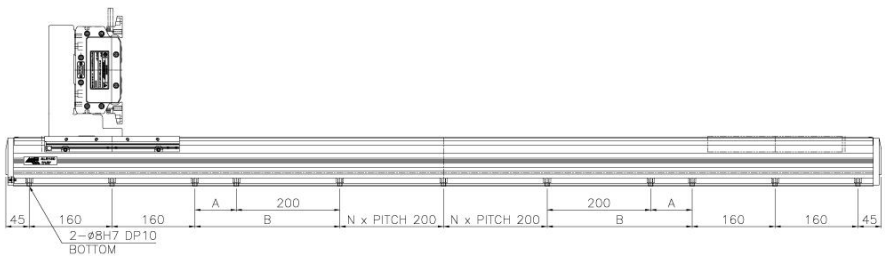


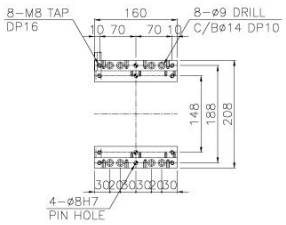
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR180-1S2-A044	ALR160-1S2-A022
Rated Force	N	160	80
Peak Force	N	440	220
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	2000	600
Max. Load	kgf	Note3 (72)	Note3 20
LM Guide	-	No 20, 2Rail 4Block	No 15, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm







Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALR160-1S2-A022	kgf	20	20	14	10	4	1	-	-

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 different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

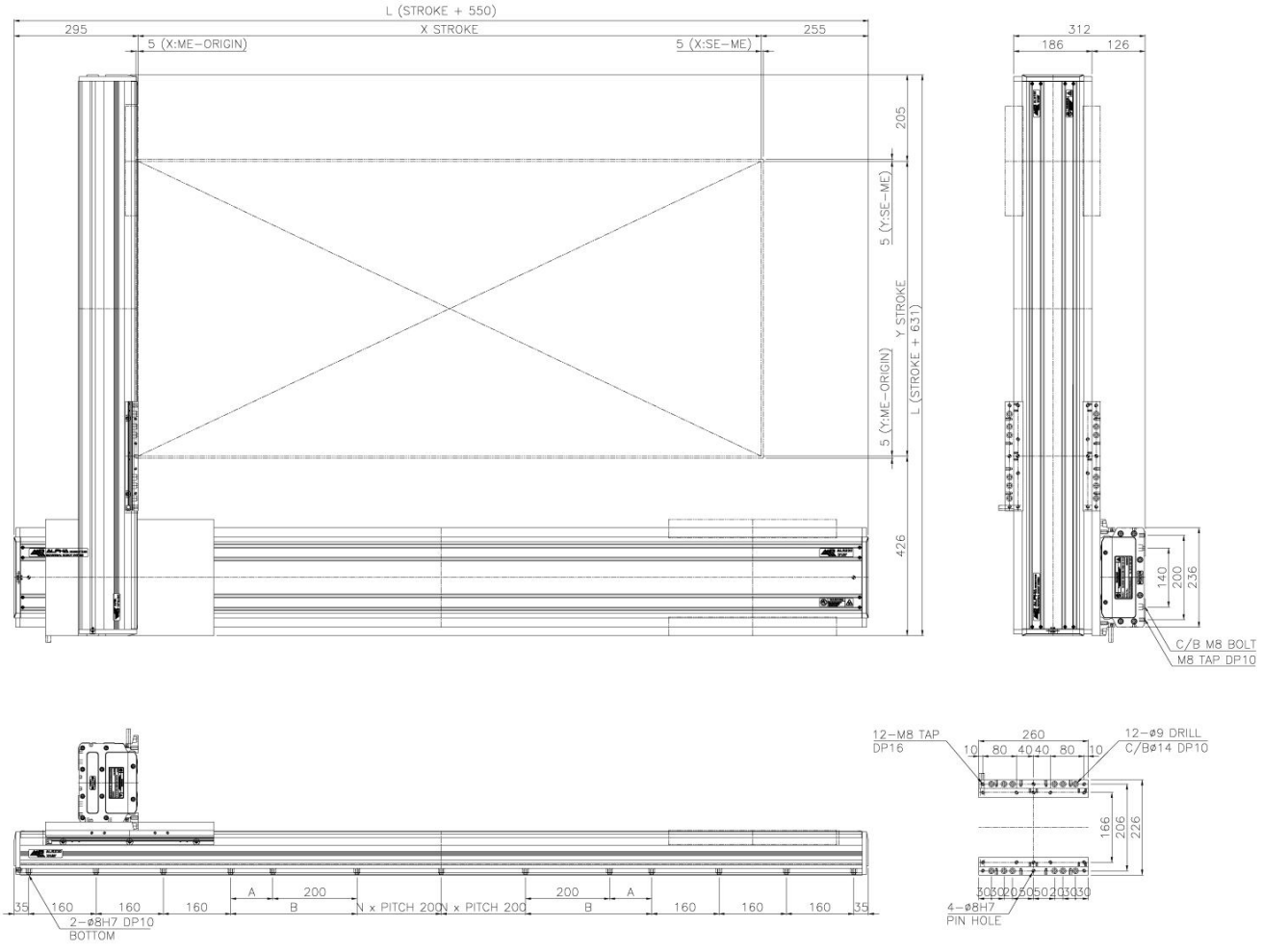
Model Peak Force | **A Type ALR+ALR** | C Type ALR+ALR | K Type ALR+ALR | H Type ALR+ALG



Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR230-1S2-A120	ALG180-1S2-A044
Rated Force	N	560	160
Peak Force	N	1200	440
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	2500	700
Max. Load	kgf	Note3 (214)	Note3 40
LM Guide	-	No 25, 2Rail 6Block	No 20, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm



Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALG180-1S2-A044	kgf	40	40	40	40	35	28	22	-

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 different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

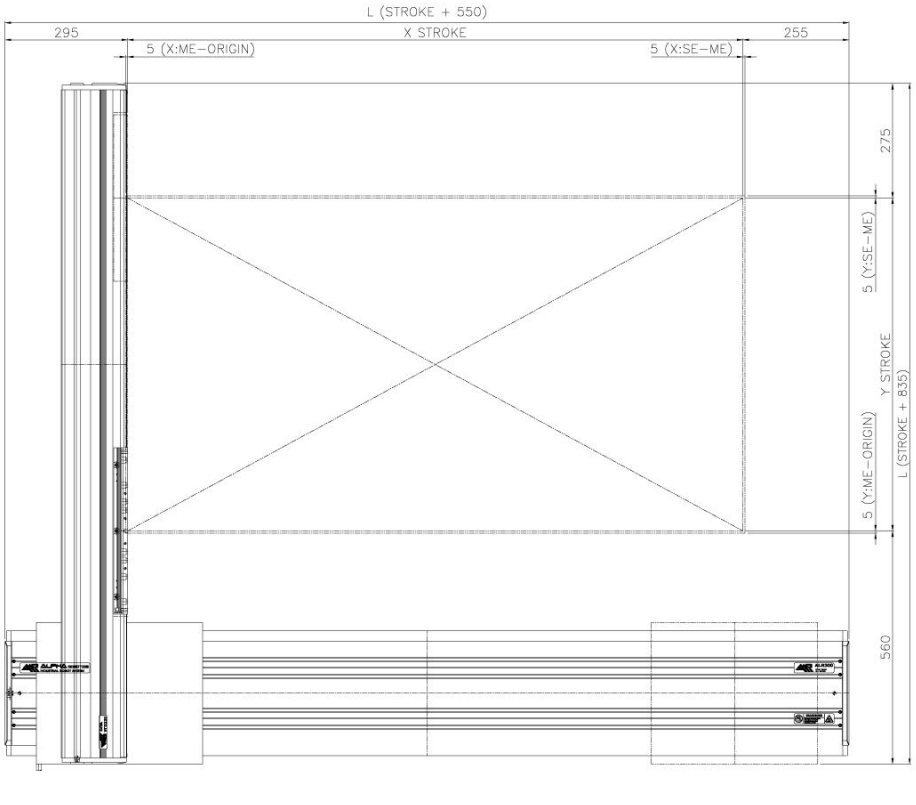
Model Peak Force | **A Type ALR+ALR** | C Type ALR+ALR | K Type ALR+ALR | H Type ALR+ALG

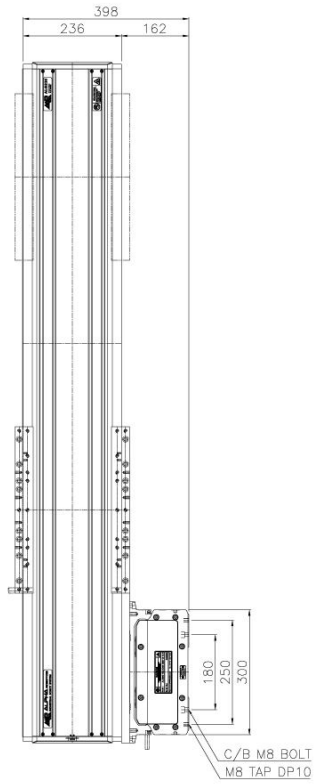


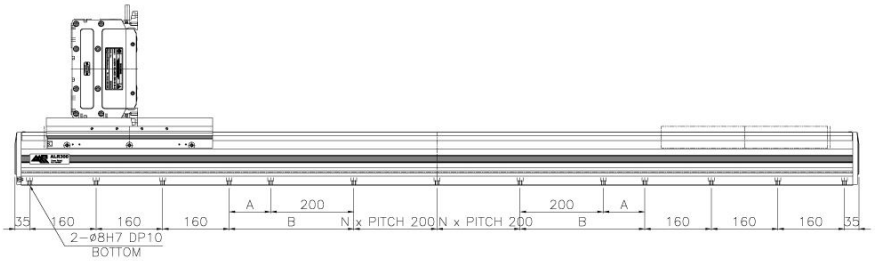
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR300-1S2-A240	ALG230-1S2-A120
Rated Force	N	1120	560
Peak Force	N	2400	1200
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	3000	800
Max. Load	kgf	Note3 (436)	Note3 50
LM Guide	-	No 30, 2Rail 6Block	No 25, 2Rail 6Block

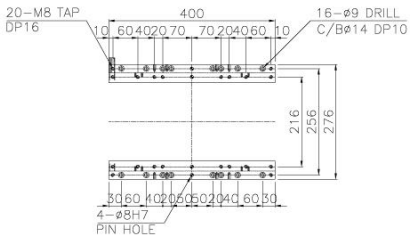
X-Y Dimension Drawing

* All dimensions in mm









Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALG230-1S2-A120	kgf	50	50	41	31	20	13	7	2

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 different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

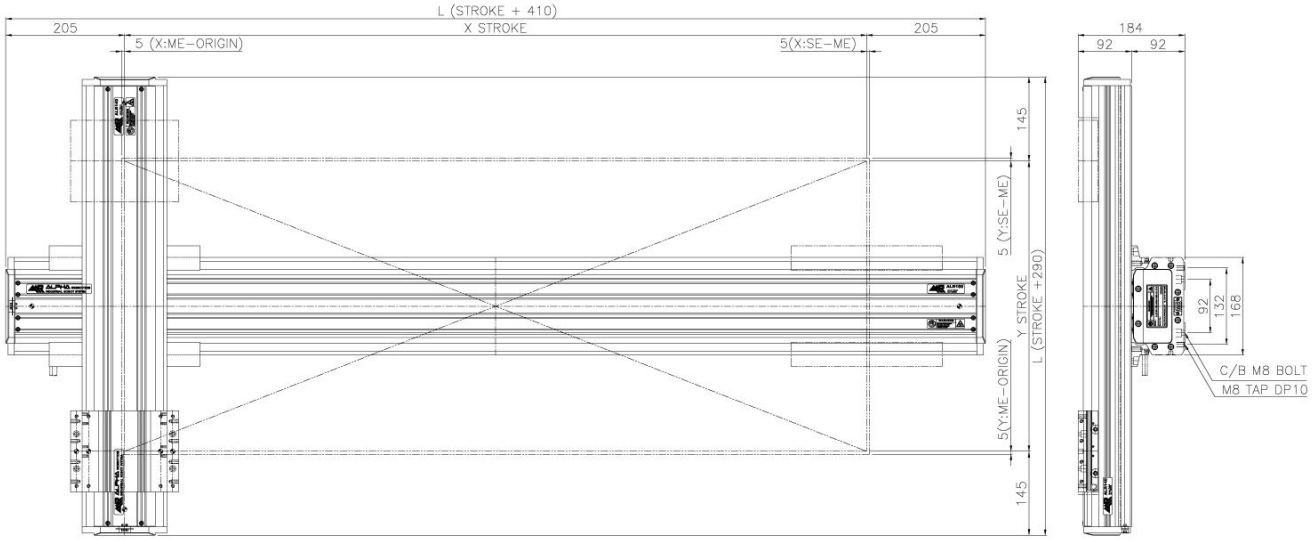
Model Peak Force | A Type ALR+ALR | **C Type ALR+ALR** | K Type ALR+ALR | H Type ALR+ALG

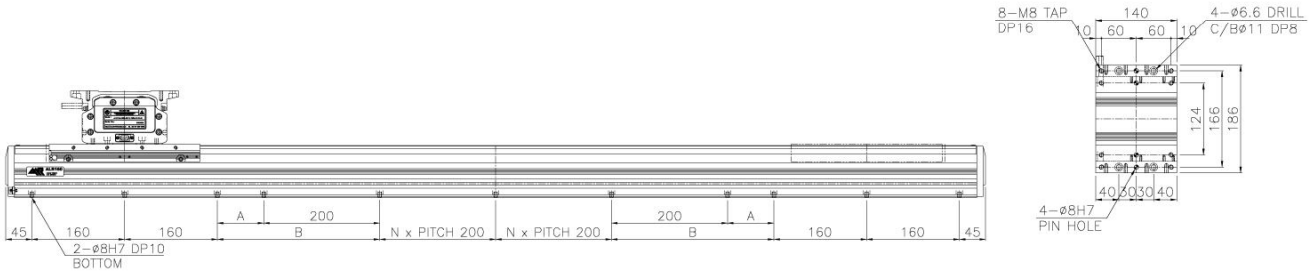


Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR160-1S2-A044	ALR140-1S2-A012
Rated Force	N	160	40
Peak Force	N	440	125
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	1500	500
Max. Load	kgf	Note3 (75)	Note3 15
LM Guide	-	No 15, 2Rail 4Block	No 15, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm





Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALR140-1S2-A012	kgf	15	15	15	15	12	-	-	-

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

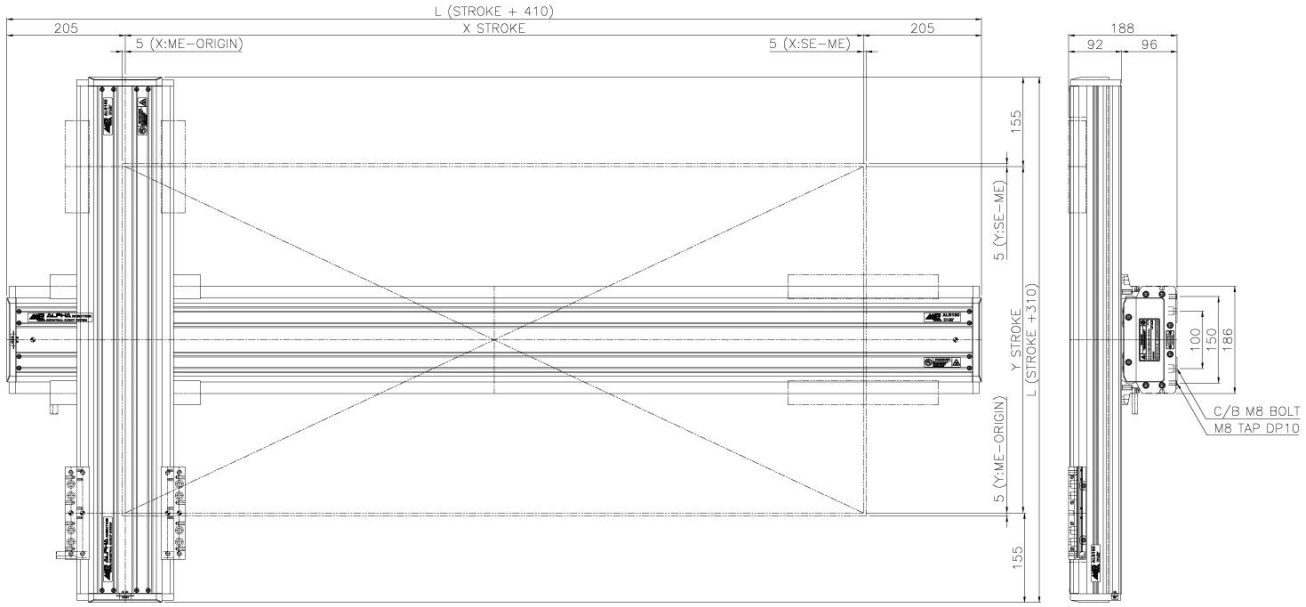
NOTE1 It is different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

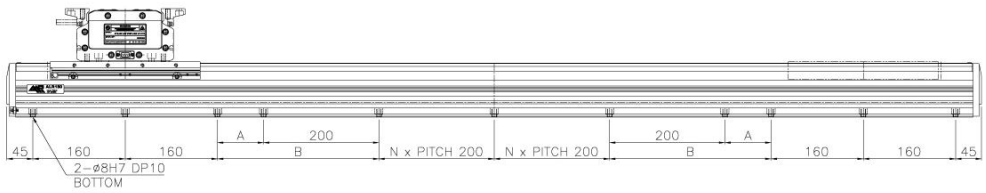


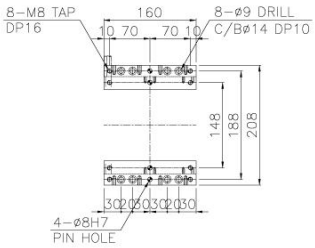
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR180-1S2-A044	ALR160-1S2-A022
Rated Force	N	160	80
Peak Force	N	440	220
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	2000	600
Max. Load	kgf	Note3 (72)	Note3 20
LM Guide	-	No 20, 2Rail 4Block	No 15, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm







Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALR160-1S2-A022	kgf	20	20	20	20	17	13	-	-

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 different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

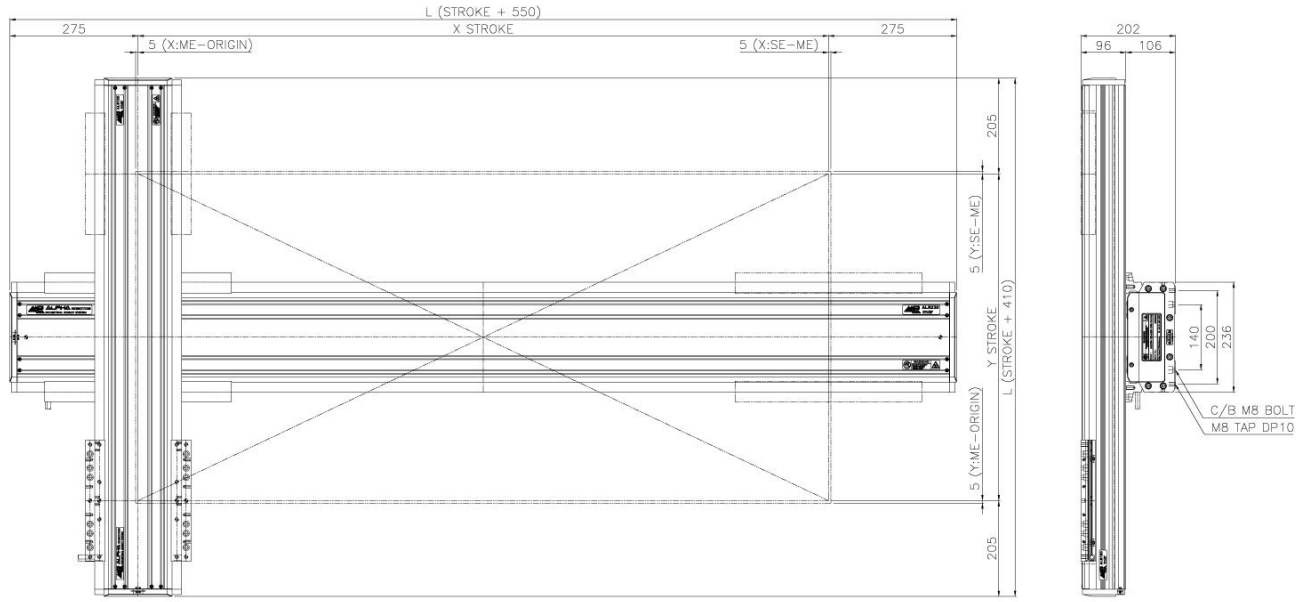
Model Peak Force | A Type ALR+ALR | **C Type ALR+ALR** | K Type ALR+ALR | H Type ALR+ALG

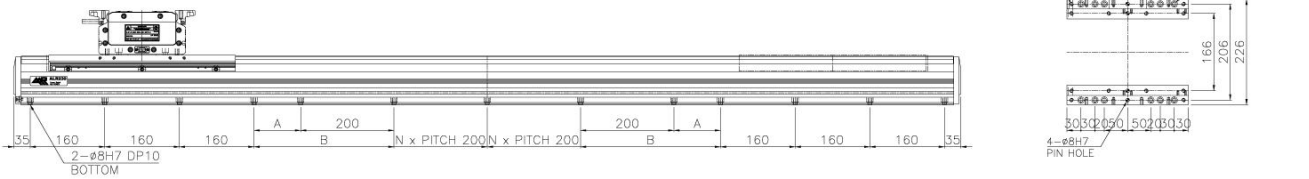


Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR230-1S2-A120	ALR180-1S2-A044
Rated Force	N	560	160
Peak Force	N	1200	440
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	2500	700
Max. Load	kgf	Note3 (214)	Note3 40
LM Guide	-	No 25, 2Rail 6Block	No 20, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm





Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALG180-1S2-A044	kgf	40	40	40	40	36	31	27	-

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

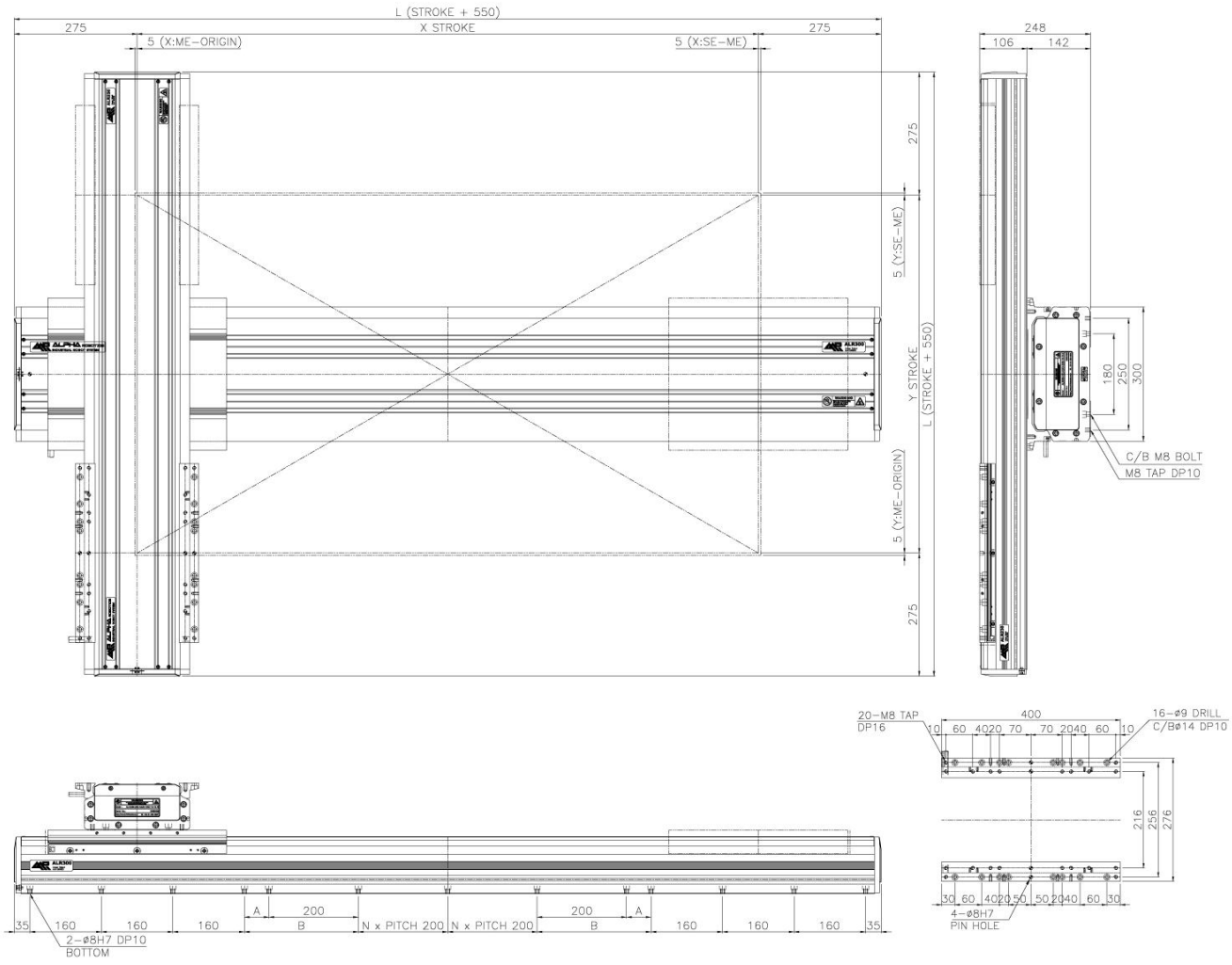
NOTE1 It is different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km



Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR300-1S2-A240	ALR230-1S2-A120
Rated Force	N	1120	560
Peak Force	N	2400	1200
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	3000	800
Max. Load	kgf	Note3 (436)	Note3 98
LM Guide	-	No 30, 2Rail 6Block	No 25, 2Rail 6Block

X-Y Dimension Drawing

* All dimensions in mm



Y-AXIS Max. Load Note4									
Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALG230-1S2-A120	kgf	98	98	98	91	85	78	72	65

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 different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

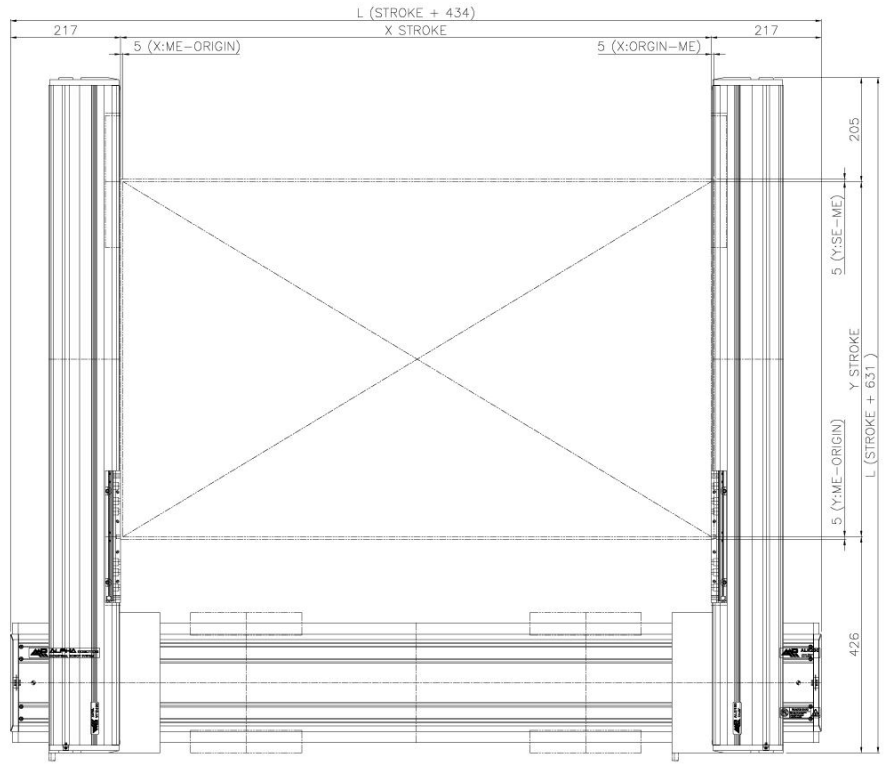
Model Peak Force | A Type ALR+ALR | C Type ALR+ALR | **K Type ALR+ALR** | H Type ALR+ALG

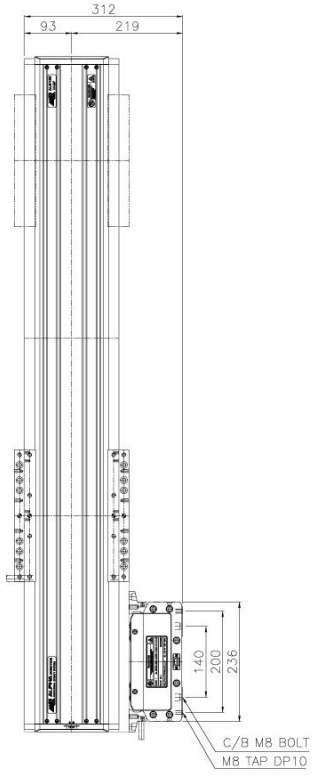


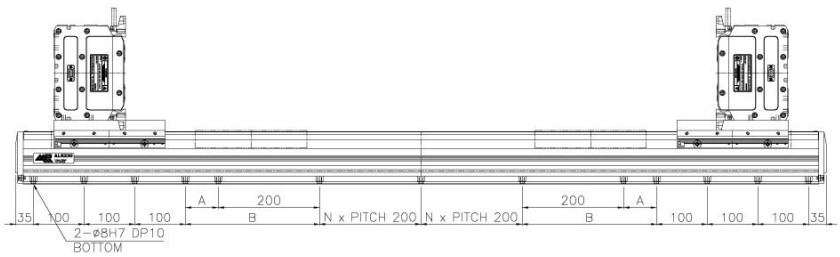
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR230-2S2-A060	ALG180-1S2-A044
Rated Force	N	200	160
Peak Force	N	600	440
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	2500	700
Max. Load	kgf	Note3 (102)	Note3 40
LM Guide	-	No 25, 2Rail 4Block	No 20, 2Rail 4Block

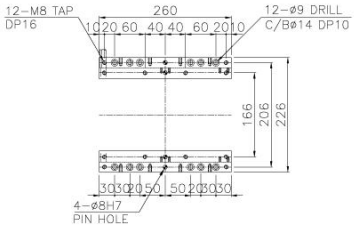
X-Y Dimension Drawing

* All dimensions in mm









Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALG180-1S2-A044	kgf	40	40	40	40	35	28	22	-

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

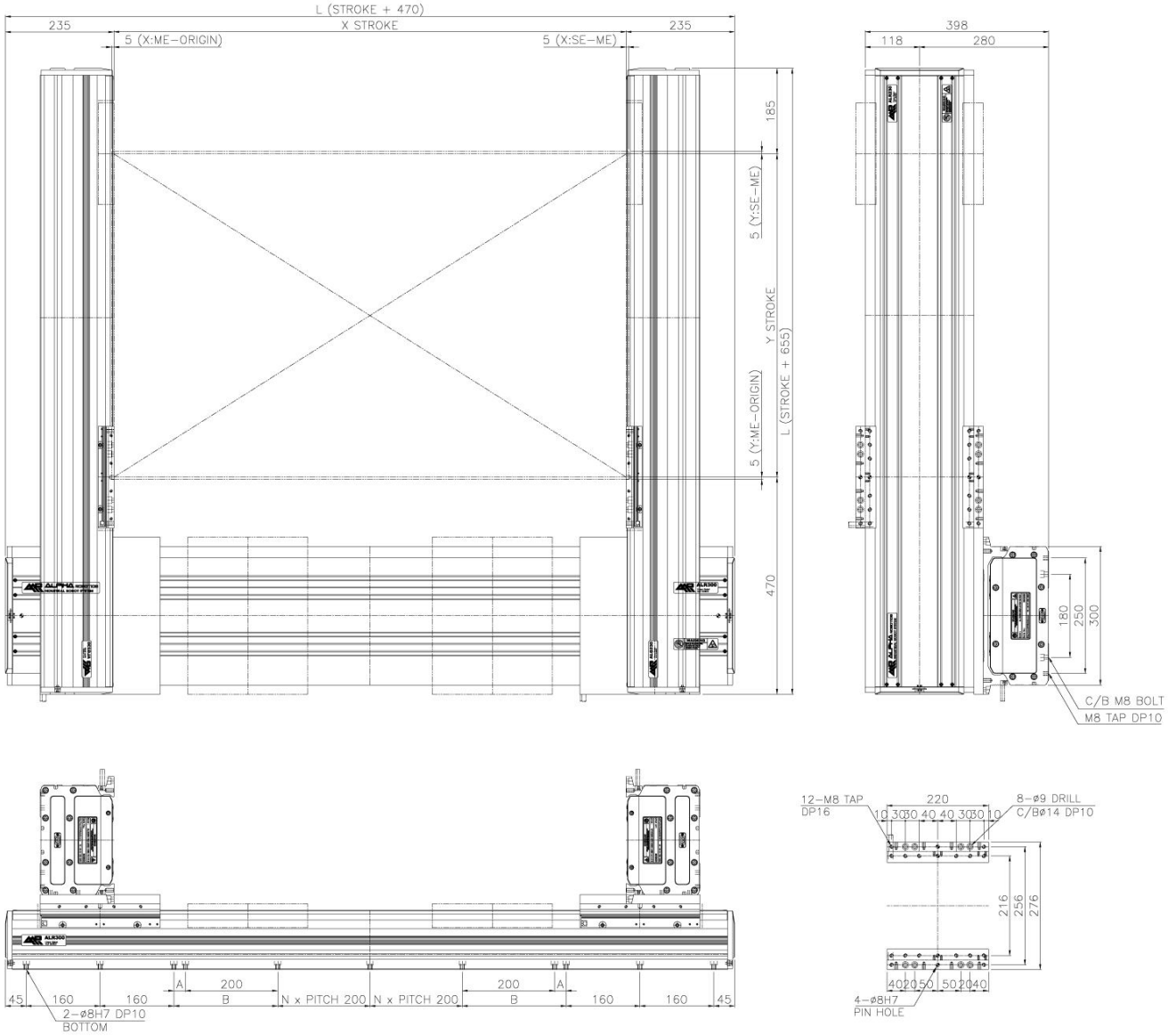
NOTE1 It is different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km



Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR300-2S2-A120	ALG230-1S2-A120
Rated Force	N	560	200
Peak Force	N	1200	600
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	3000	800
Max. Load	kgf	Note3 (211)	Note3 50
LM Guide	-	No 30, 2Rail 4Block	No 25, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm



Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
ALG230-1S2-A120	kgf	50	50	41	31	20	13	7	2

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 different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

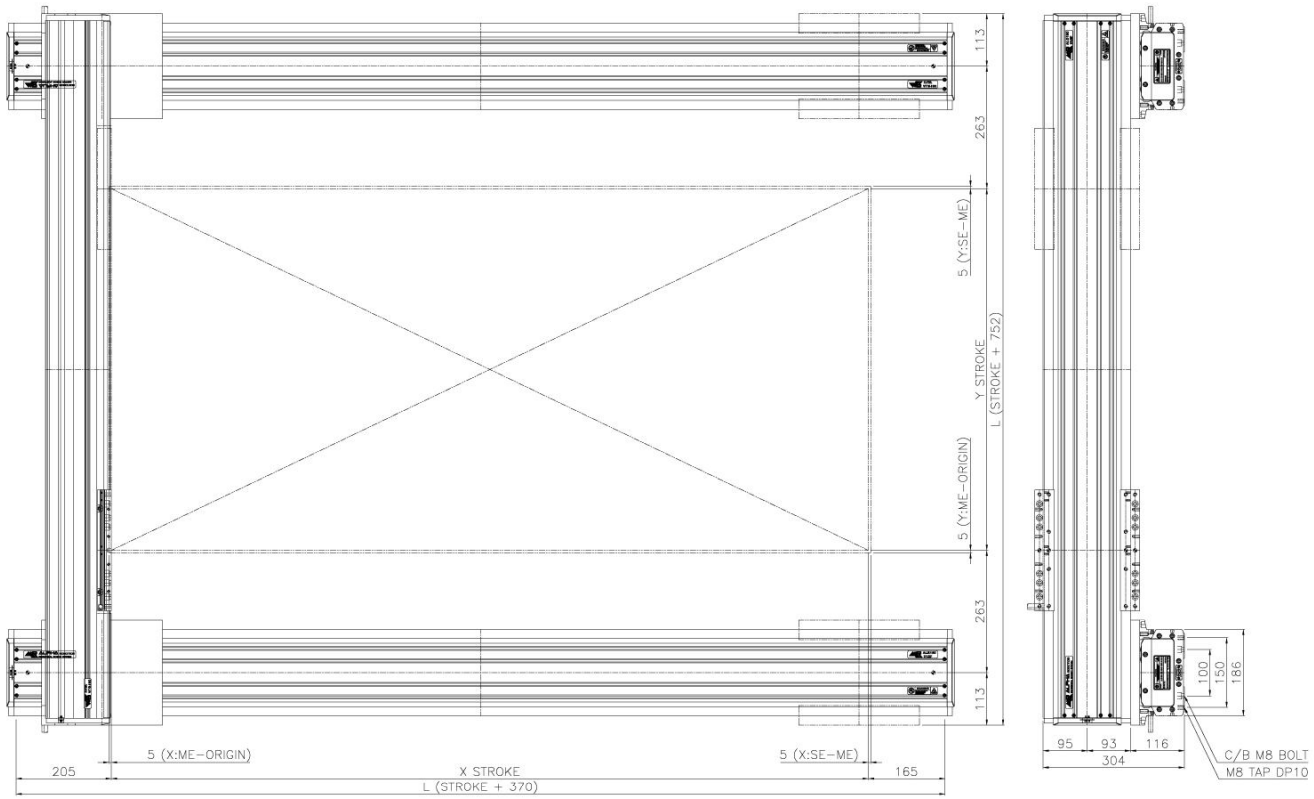
Model Peak Force | A Type ALR+ALR | C Type ALR+ALR | K Type ALR+ALR | **H Type ALR+ALG**

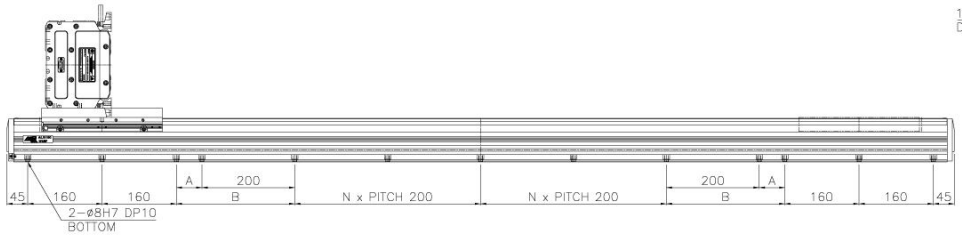


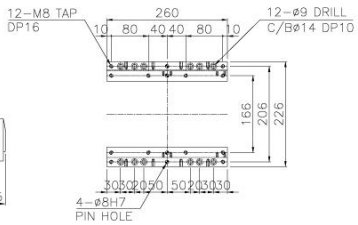
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR180-1S2-A044	ALG180-1S2-A044
Rated Force	N	160	160
Peak Force	N	440	440
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	2000	1600
Max. Load	kgf	Note3 (100)	Note3 36
LM Guide	-	No 20, 2Rail 4Block	No 20, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm







Y-AXIS Max. Load Note4

Model \ Stroke	Units	200	400	600	800	1000	1200	1400	1600
ALG180-1S2-A044	kgf	36	36	32	27	22	17	12	9

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

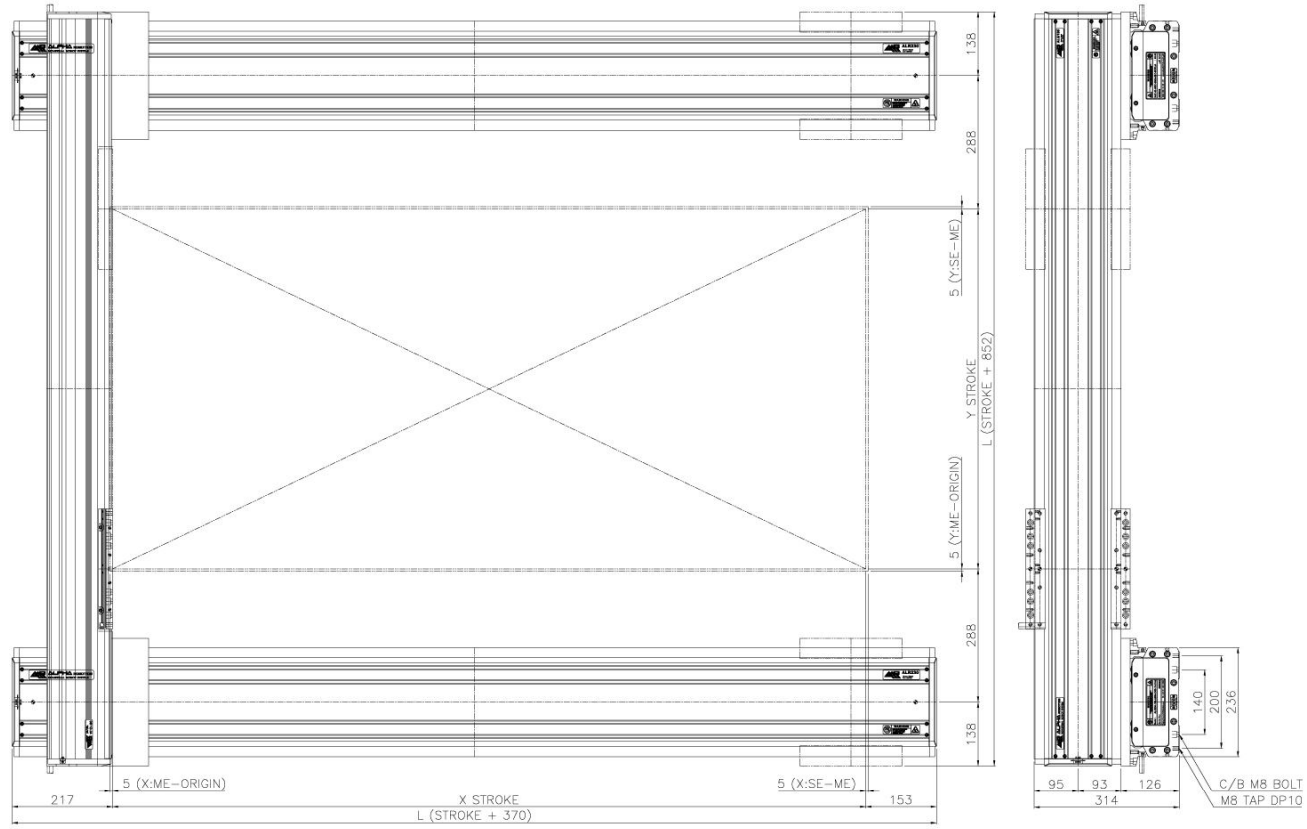
NOTE1 It is different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

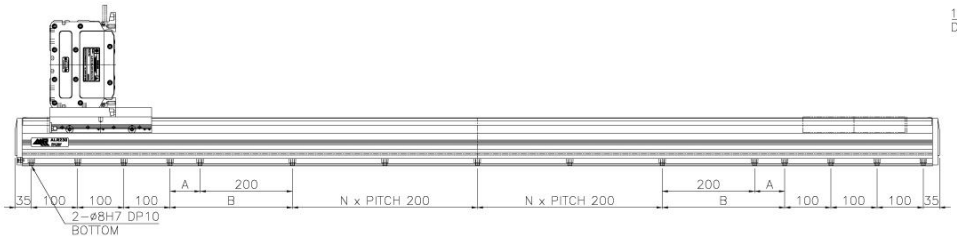


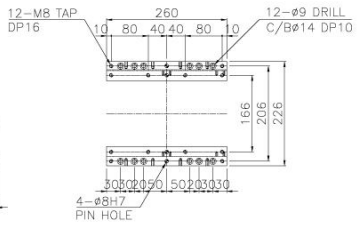
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR230-1S2-A060	ALG180-1S2-A044
Rated Force	N	200	160
Peak Force	N	600	440
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	2500	1600
Max. Load	kgf	Note3 (102)	Note3 36
LM Guide	-	No 25, 2Rail 4Block	No 20, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm







Y-AXIS Max. Load Note4									
Model \ Stroke	Units	200	400	600	800	1000	1200	1400	1600
ALG180-1S2-A044	kgf	36	36	36	31	27	22	18	13

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

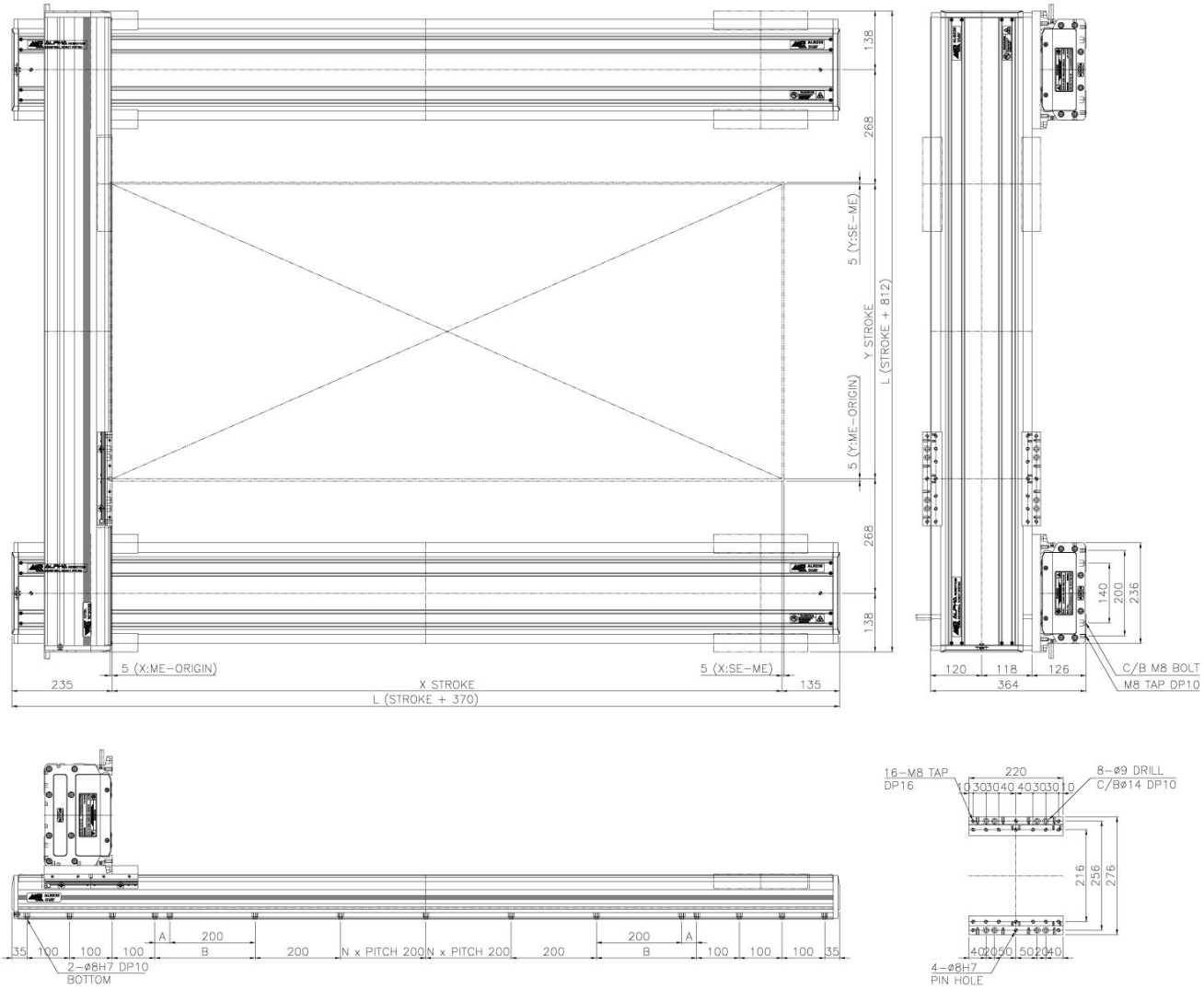
NOTE1 It is different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km



Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR230-1S2-A060	ALG230-1S2-A060
Rated Force	N	280	280
Peak Force	N	600	600
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	2500	1600
Max. Load	kgf	Note3 (150)	Note3 64
LM Guide	-	No 25, 2Rail 4Block	No 25 , 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm



Y-AXIS Max. Load Note4									
Model \ Stroke	Units	200	400	600	800	1000	1200	1400	1600
ALG230-1S2-A060	kgf	64	64	64	61	57	51	45	41

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

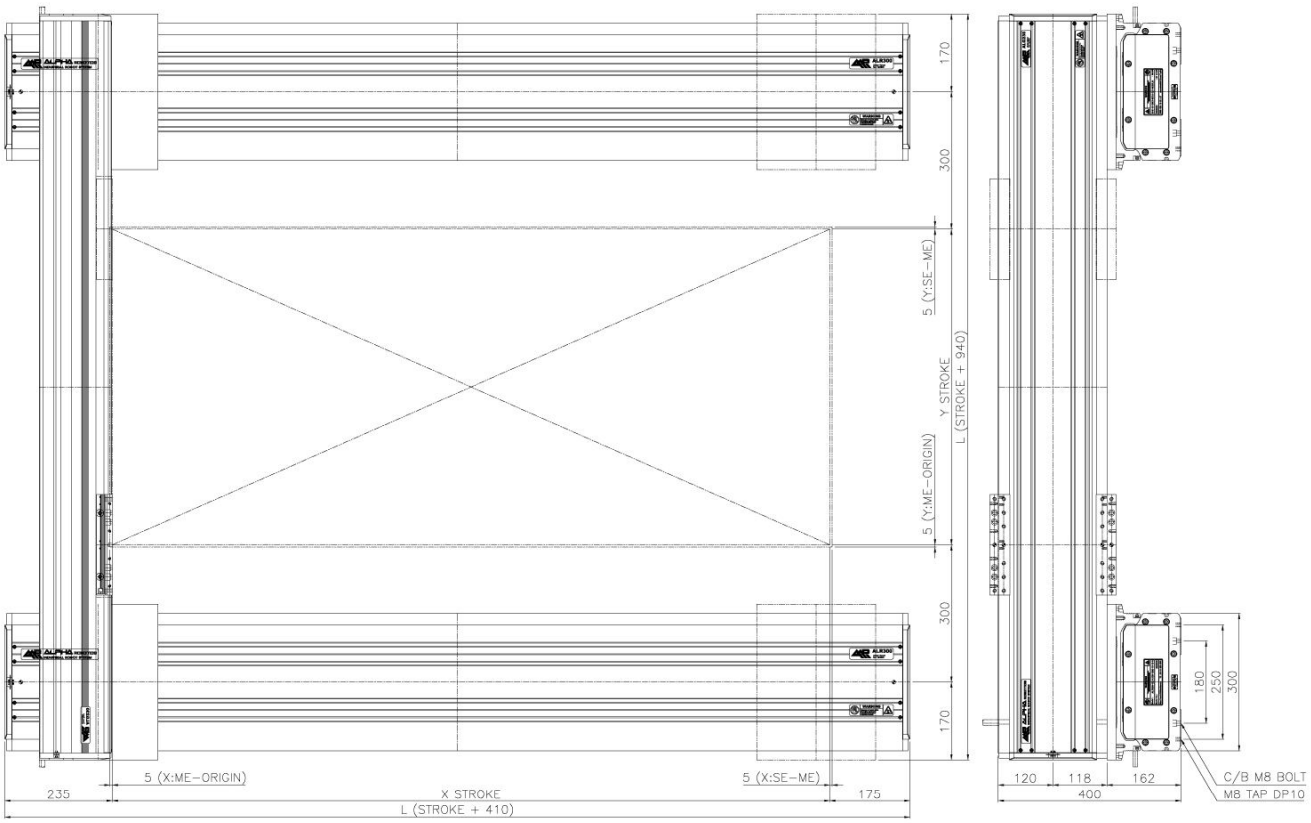
NOTE1 It is different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

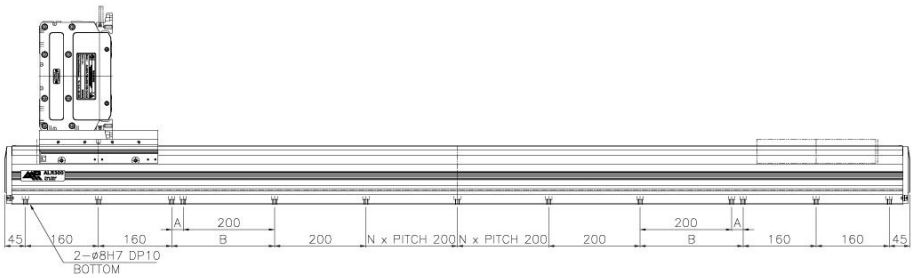


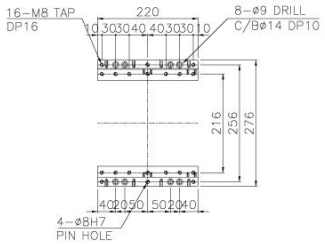
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR300-1S2-A120	ALG230-1S2-A060
Rated Force	N	560	200
Peak Force	N	1200	600
Max. Resolution	㎛	Note1 0.1 ~ 40	Note1 0.1 ~ 40
Max. Speed	mm/sec	Note2 1250	Note2 1250
Acceleration	G	Note4 0.3	Note4 0.3
Max. Stroke	mm	3000	1600
Max. Load	kgf	Note3 (211)	Note3 64
LM Guide	-	No 30, 2Rail 4Block	No 25, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm







Y-AXIS Max. Load Note4									
Model \ Stroke	Units	200	400	600	800	1000	1200	1400	1600
ALG230-1S2-A060	kgf	64	64	64	64	60	56	50	47

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 different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km