ALPHA ROBOTICS

LINEAR + CARTESIAN ROBOT



AR ASSEMBLY

LINEAR + CARTESIAN ROBOT

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



"A" TYPE 80.1

"G" TYPE 81.1

"K" TYPE 82.1

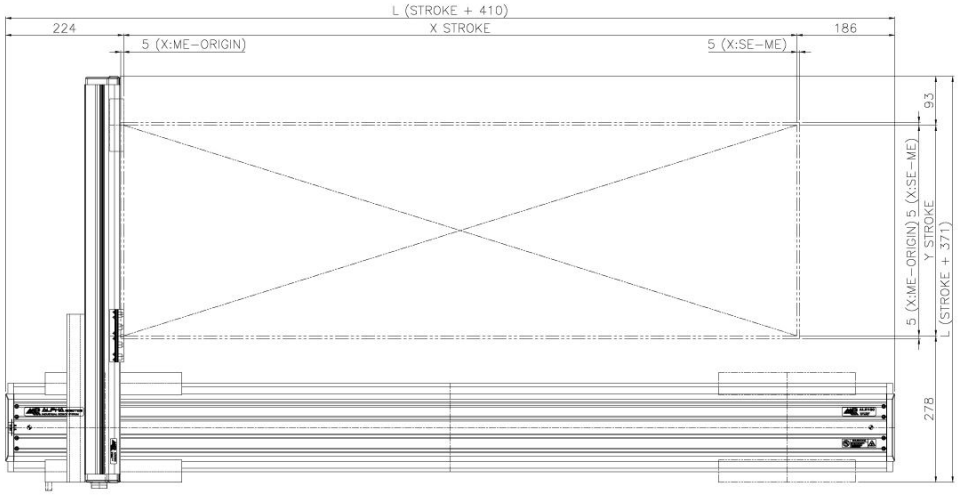
Model Peak Force | **A Type ALR+AR** | G Type ALR+AR | K Type ALR+AR

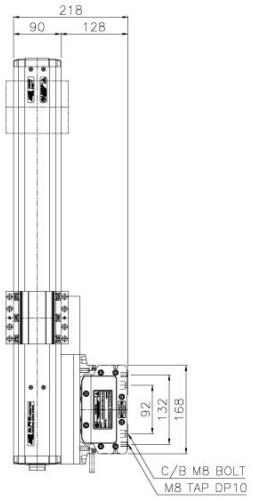


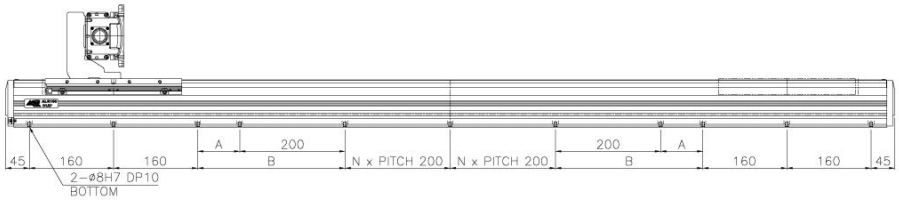
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR160-1S2-A044	AR090-1S2-10-H
Rated Force	N	160	-
Peak Force	N	440	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	1000
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	1500	400
Max. Load	kgf	Note3 (75)	15
LM Guide	-	No 15, 2Rail 4Block	No 15, 1Rail 2Block

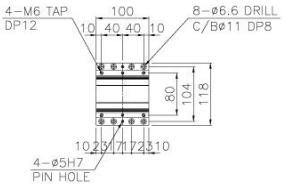
X-Y Dimension Drawing

* All dimensions in mm









Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR090-1S2-10-H	kgf	10	8	4	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

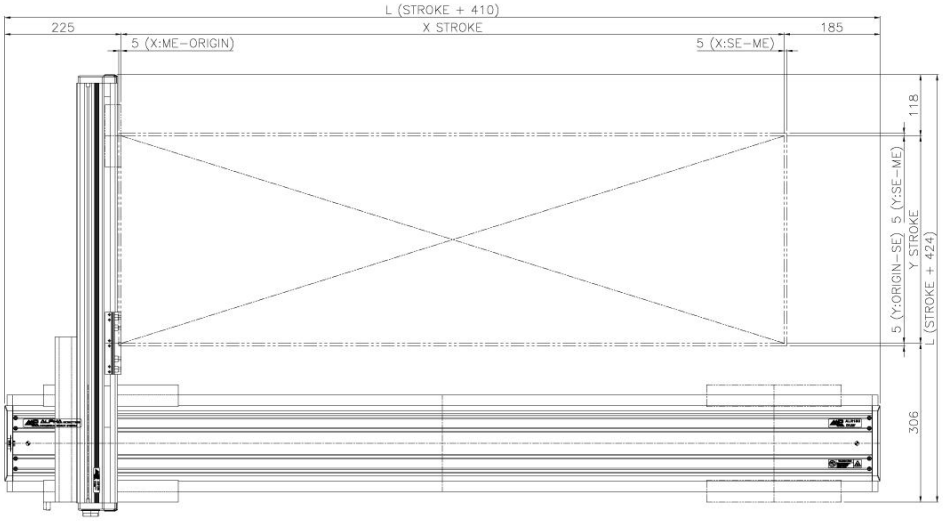
Model Peak Force | **A Type ALR+AR** | G Type ALR+AR | K Type ALR+AR

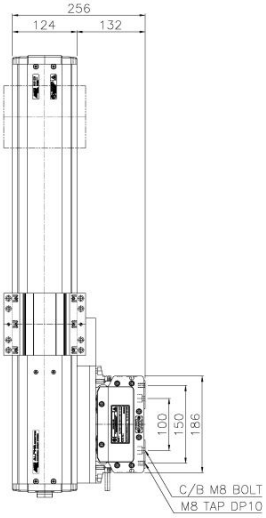


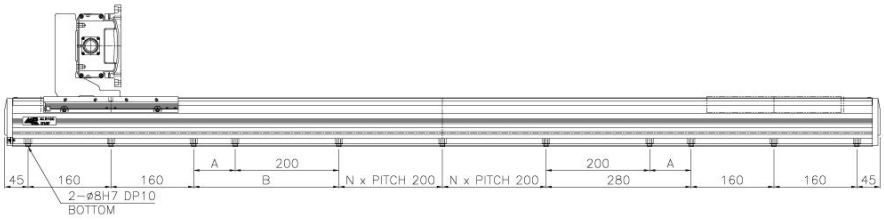
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR180-1S2-A044	AR120-1S2-40-H
Rated Force	N	160	-
Peak Force	N	440	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	1000
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	2000	500
Max. Load	kgf	Note3 (72)	28
LM Guide	-	No 20, 2Rail 4Block	No 15, 2Rail 4Block

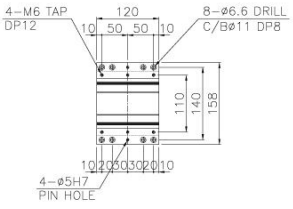
X-Y Dimension Drawing

* All dimensions in mm









Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR120-1S2-40-H	kgf	28	20	15	10	7	-	-	-

CAUTION

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SE : Stroke End
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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

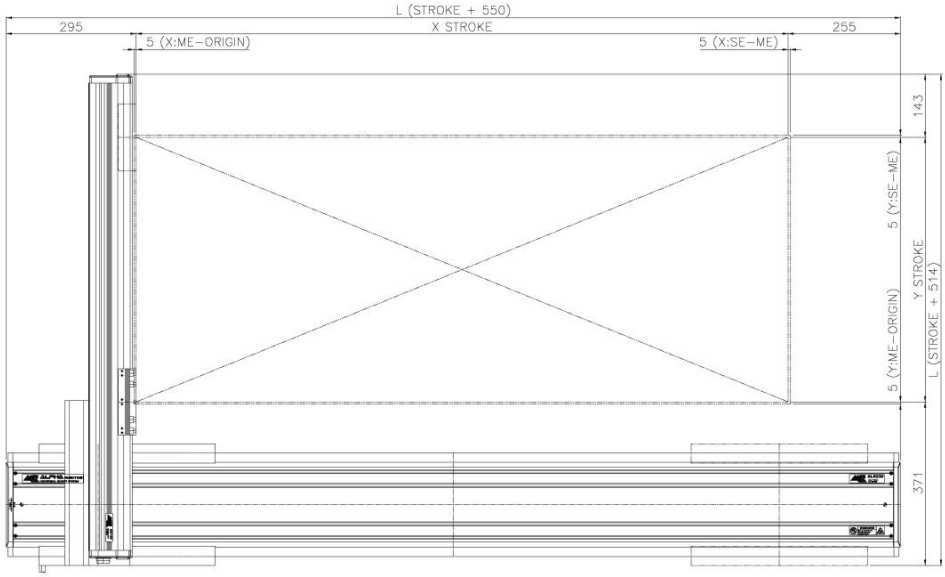
Model Peak Force | **A Type ALR+AR** | G Type ALR+AR | K Type ALR+AR

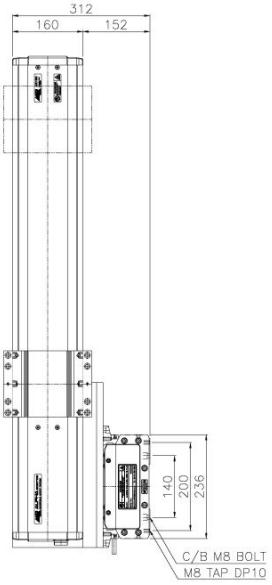


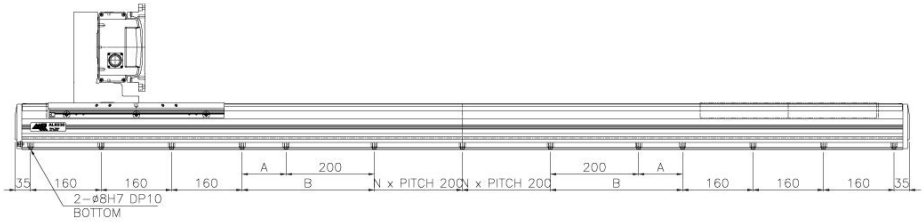
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR230-1S2-A120	AR160-1S2-40-H
Rated Force	N	560	-
Peak Force	N	1200	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	1000
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	2500	600
Max. Load	kgf	Note3 (214)	32
LM Guide	-	No 25, 2Rail 6Block	No 20, 2Rail 4Block

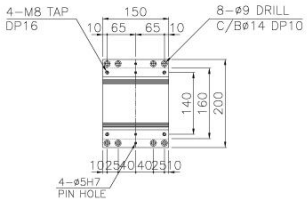
X-Y Dimension Drawing

* All dimensions in mm









Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR160-1S2-40-H	kgf	32	21	17	12	9	4	-	-

CAUTION

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NOTE1 It is different with the specification, maximum speed and using condition.
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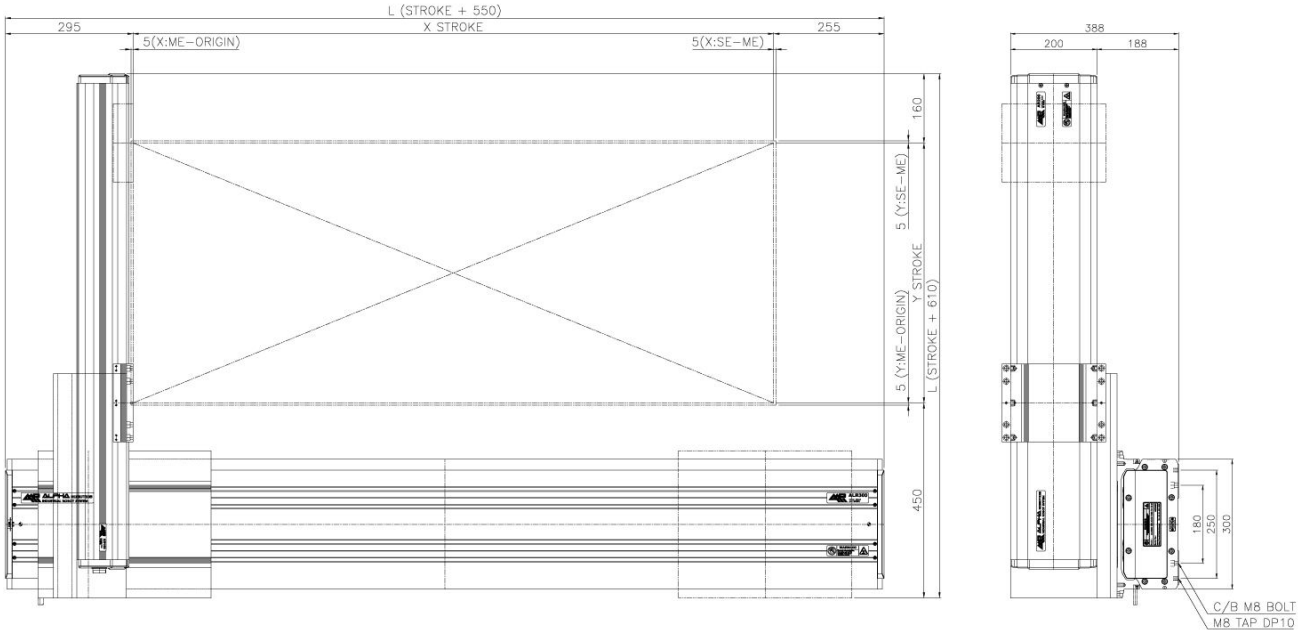
Model Peak Force | **A Type ALR+AR** | G Type ALR+AR | K Type ALR+AR



Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR300-1S2-A240	AR200-1S2-75-H
Rated Force	N	1120	-
Peak Force	N	2400	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	1000
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	3000	700
Max. Load	kgf	Note3 (436)	41
LM Guide	-	No 30, 2Rail 6Block	No 25, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm



Y-AXIS Max. Load Note4

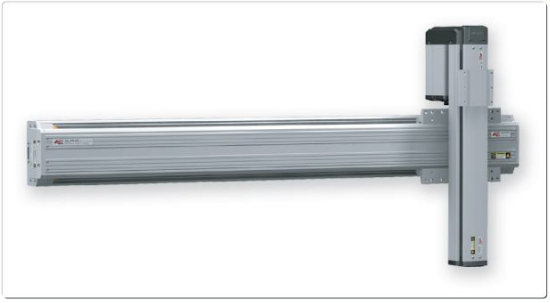
Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR200-1S2-75-H	kgf	41	30	24	19	14	8	3	-

CAUTION

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NOTE1 It is different with the specification, maximum speed and using condition.
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NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

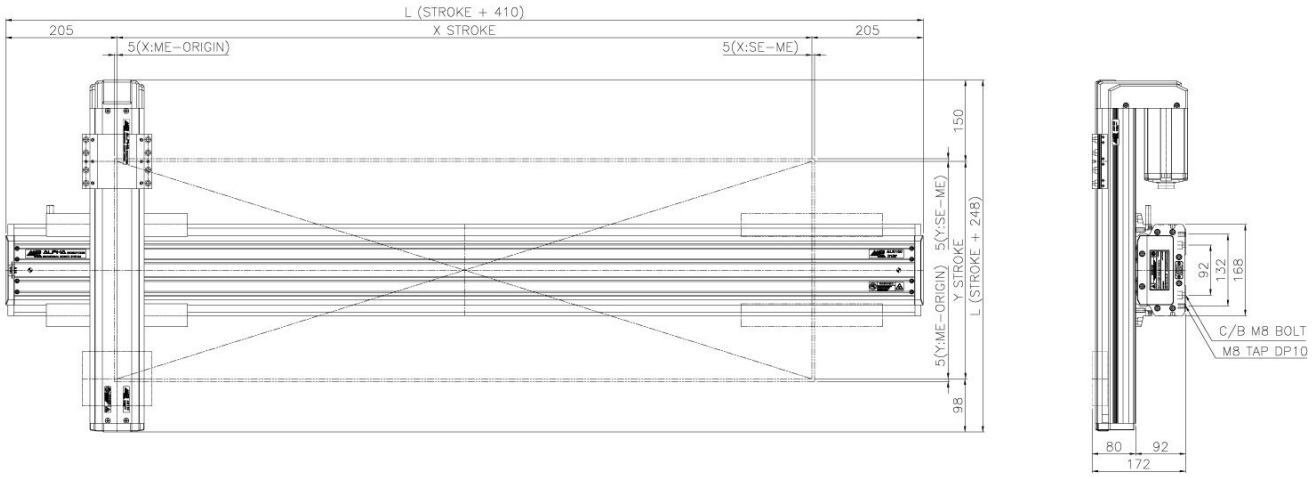
Model Peak Force | A Type ALR+AR | G Type ALR+AR | K Type ALR+AR

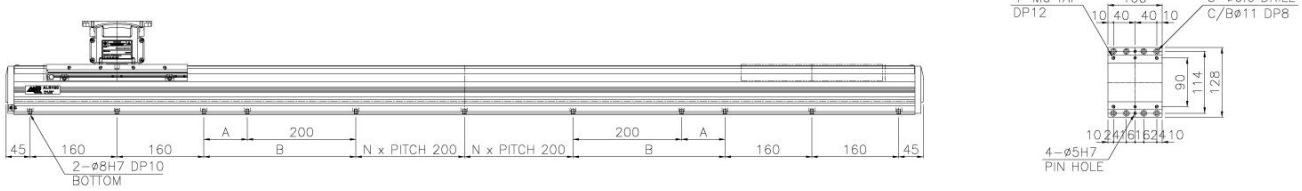


Specification	Unit	Y-AXIS	Z-AXIS
Model Name	Axi s	ALR160-1S2-A044	AR100-1PU2-10B-N
Rated Force	N	160	-
Peak Force	N	440	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	500
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	1500	400
Max. Load	kgf	Note3 (75)	12
LM Guide	-	No 15, 2Rail 4Block	No 15, 1Rail 2Block

X-Y Dimension Drawing

* All dimensions in mm





Z-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR100-1PU2-10B-N	kgf	10	7	5	3	-	-	-	-

CAUTION

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

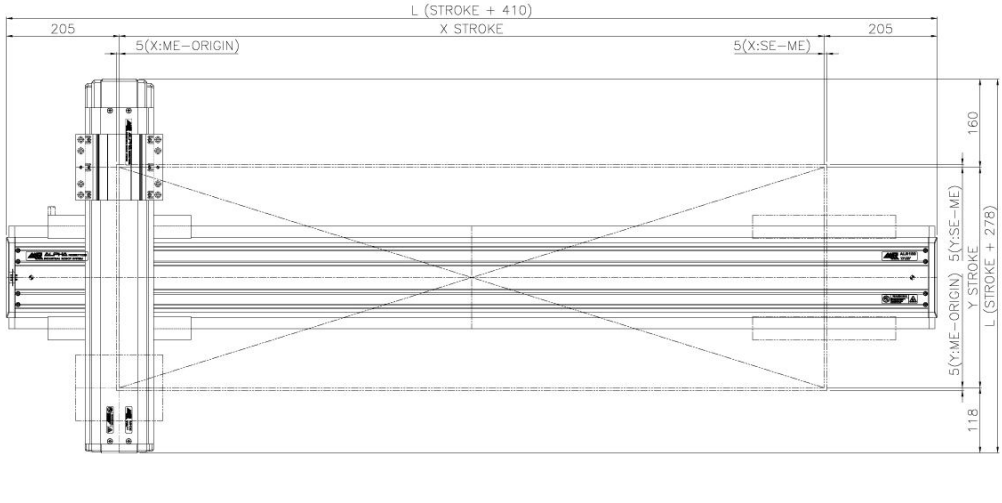
NOTE1 It is different with the specification, maximum speed and using condition.
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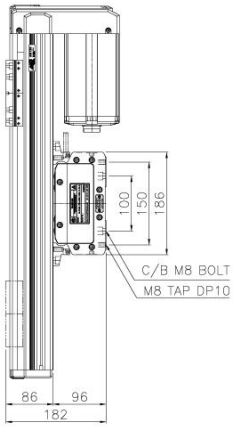


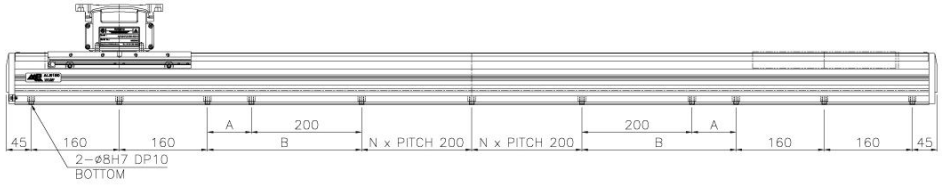
Specification	Unit	Y-AXIS	Z-AXIS
Model Name	Axi s	ALR180-1S2-A044	AR120-1PU2-40B-N
Rated Force	N	160	-
Peak Force	N	440	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	500
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	2000	500
Max. Load	kgf	Note3 (72)	20
LM Guide	-	No 20, 2Rail 4Block	No 15, 2Rail 4Block

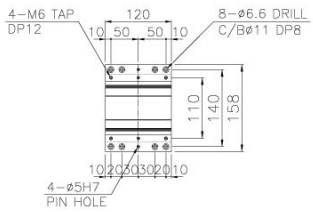
X-Y Dimension Drawing

* All dimensions in mm









Z-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR120-1PU2-40B-N	kgf	20	13	9	6	4	-	-	-

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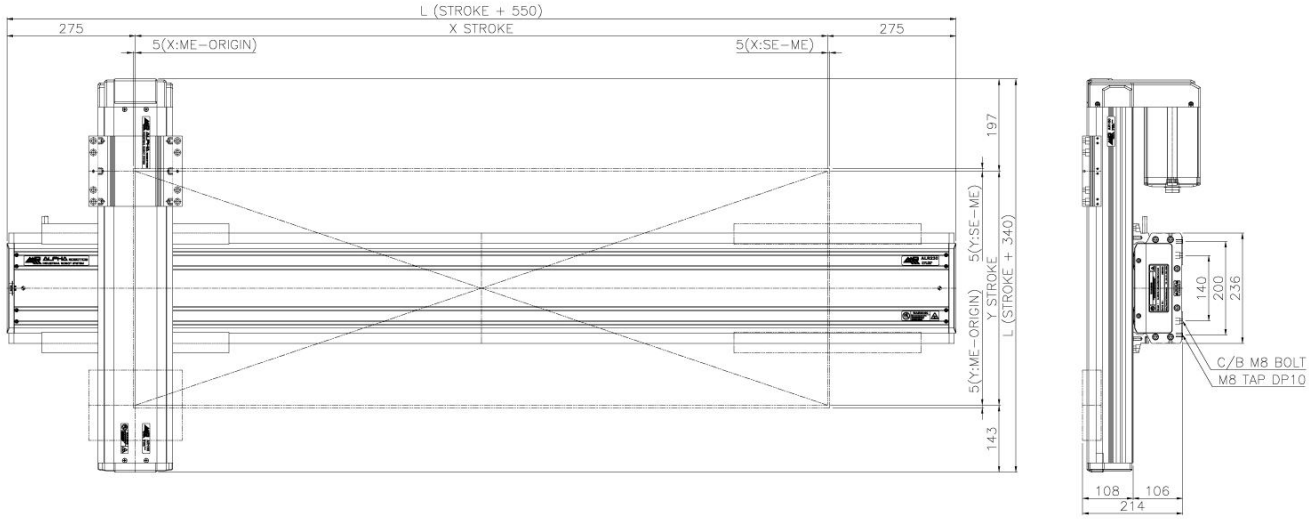
Model Peak Force | A Type ALR+AR | G Type ALR+AR | K Type ALR+AR

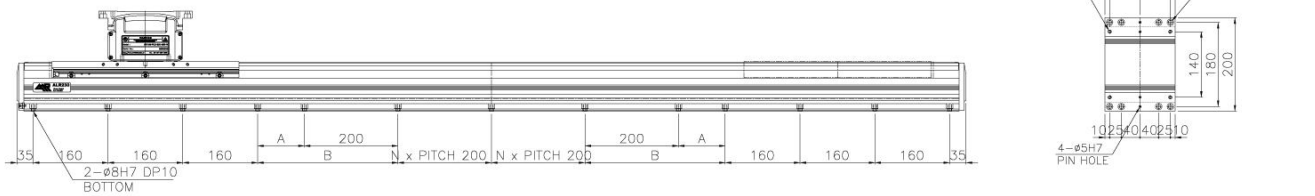


Specification	Unit	Y-AXIS	Z-AXIS
Model Name	Axi s	ALR230-1S2-A120	AR160-1PU2-40B-N
Rated Force	N	560	-
Peak Force	N	1200	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	500
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	2500	600
Max. Load	kgf	Note3 (214)	25
LM Guide	-	No 25, 2Rail 6Block	No 20, 2Rail 4Block

X-Y Dimension Drawing

* All dimensions in mm





Z-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR160-1PU2-40B-N	kgf	25	15	13	8	4	2	-	-

CAUTION

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NOTE1 It is different with the specification, maximum speed and using condition.
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NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km

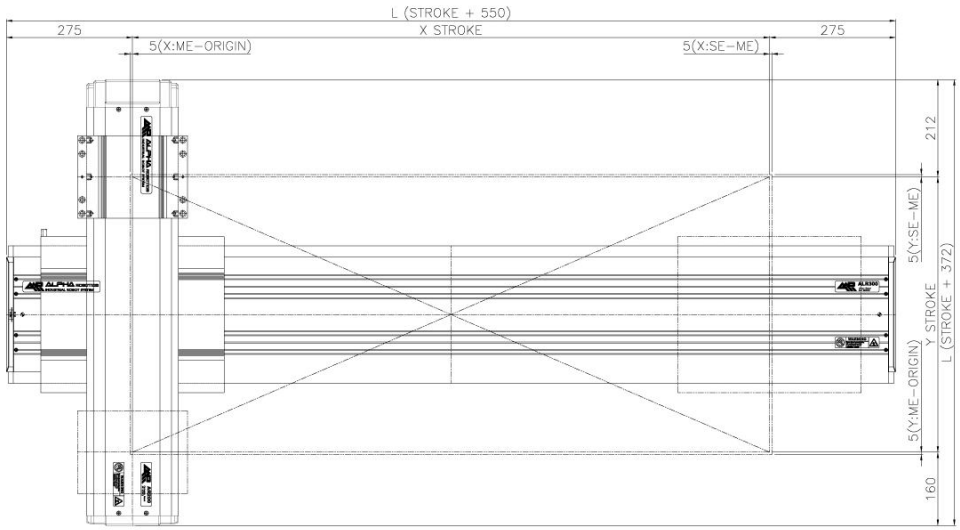
Model Peak Force | A Type ALR+AR | G Type ALR+AR | K Type ALR+AR

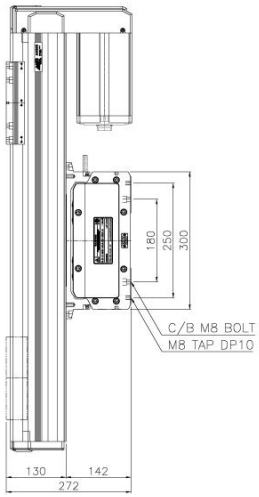


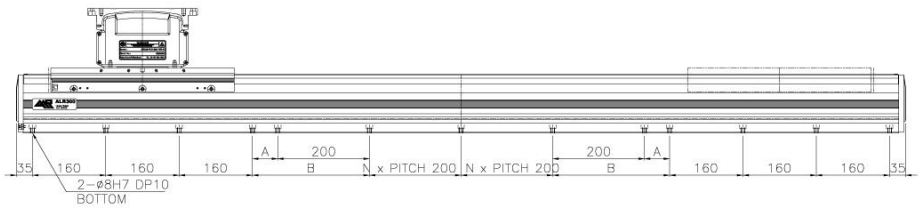
Specification	Unit	Y-AXIS	Z-AXIS
Model Name	Axi s	ALR300-1S2-A240	AR200-1PU2-75B-N
Rated Force	N	1120	-
Peak Force	N	2400	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	500
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	3000	700
Max. Load	kgf	Note3 (436)	34
LM Guide	-	No 30, 2Rail 6Block	No 25, 2Rail 4Block

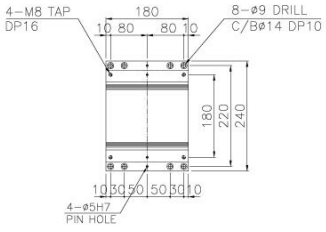
X-Y Dimension Drawing

* All dimensions in mm









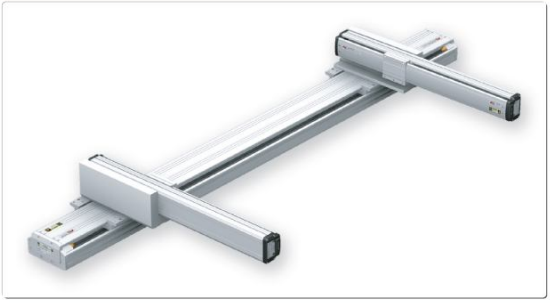
Z-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR200-1PU2-75B-N	kgf	34	27	20	16	11	8	5	-

CAUTION

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

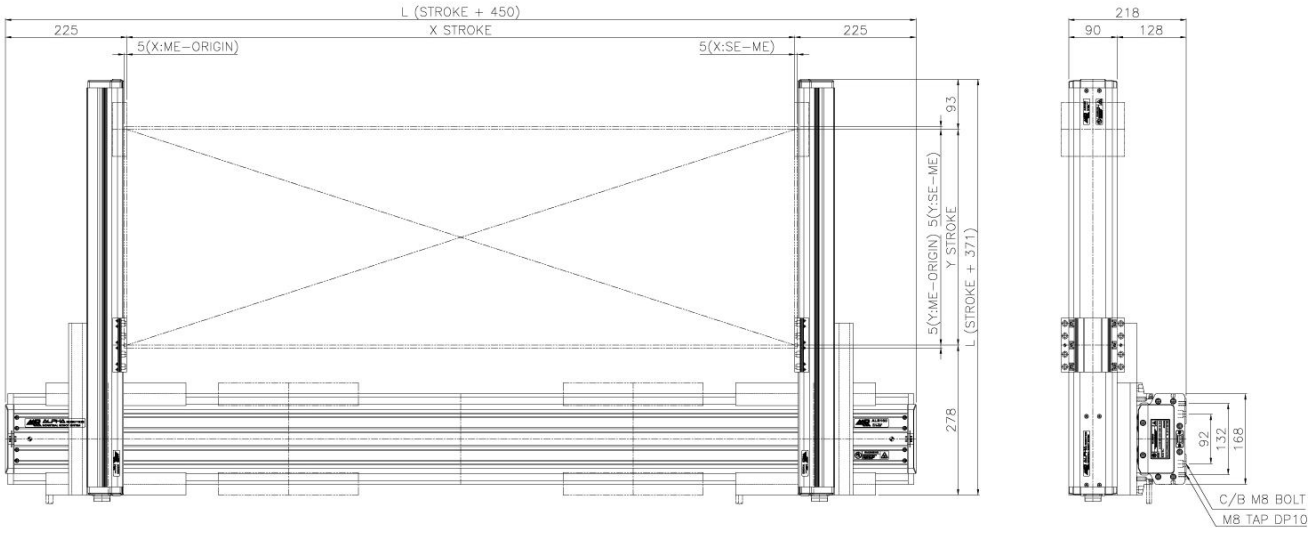
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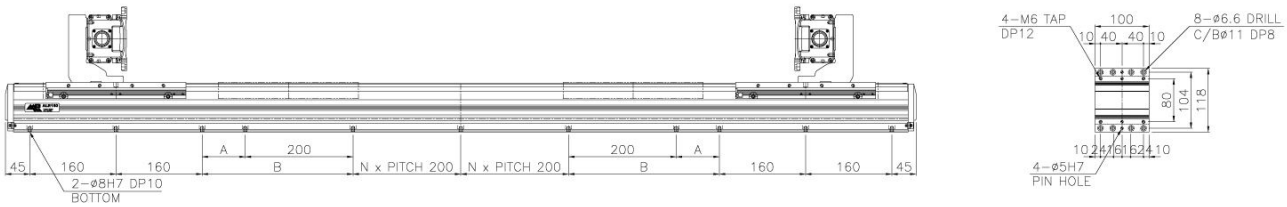


Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR160-2S2-A044	AR090-1S2-10-H
Rated Force	N	160	-
Peak Force	N	440	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	1000
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	1500	400
Max. Load	kgf	Note3 (75)	14
LM Guide	-	No 15, 2Rail 4Block	No 15, 1Rail 2Block

X-Y Dimension Drawing

* All dimensions in mm



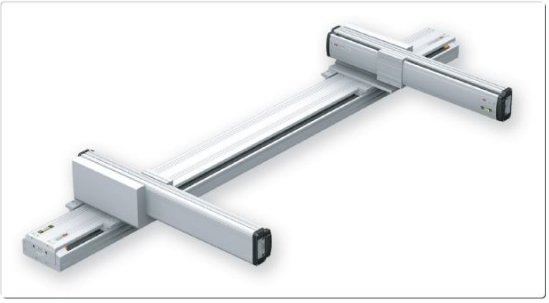


Y-AXIS Max. Load Note4									
Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR090-1S2-10-H	kgf	10	8	4	2	-	-	-	-

CAUTION

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ME : Mechanical End
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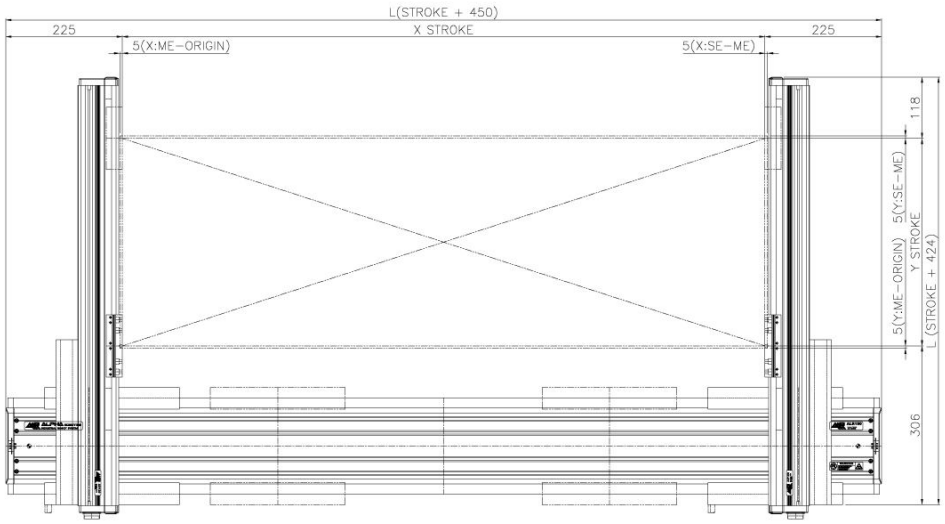
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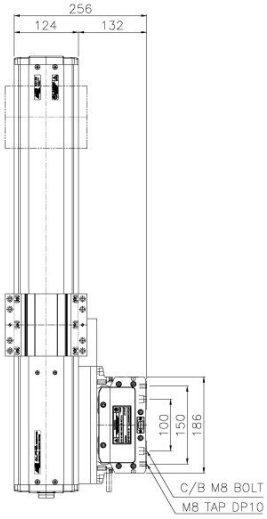


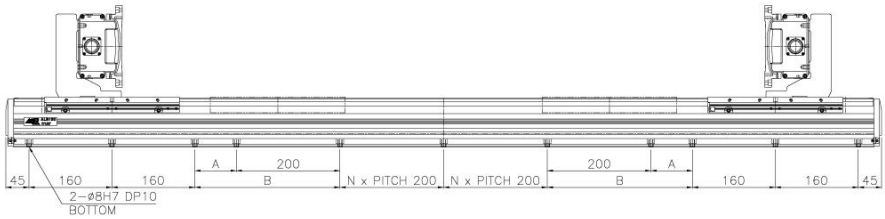
Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR180-2S2-A044	AR120-1S2-40-H
Rated Force	N	160	-
Peak Force	N	440	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	1000
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	200	500
Max. Load	kgf	Note3 (72)	28
LM Guide	-	No 20, 2Rail 4Block	No 15, 2Rail 4Block

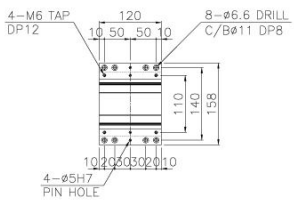
X-Y Dimension Drawing

* All dimensions in mm









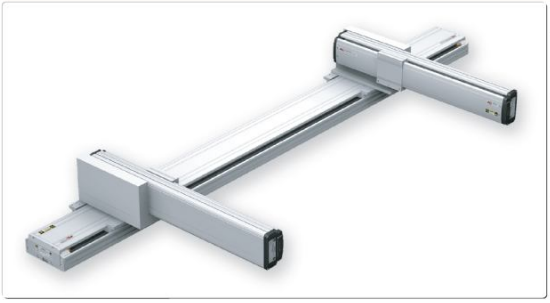
Y-AXIS Max. Load Note4

Model \ Stroke	Units	100	200	300	400	500	600	700	800
AR120-1S2-40-H	kgf	28	20	15	10	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

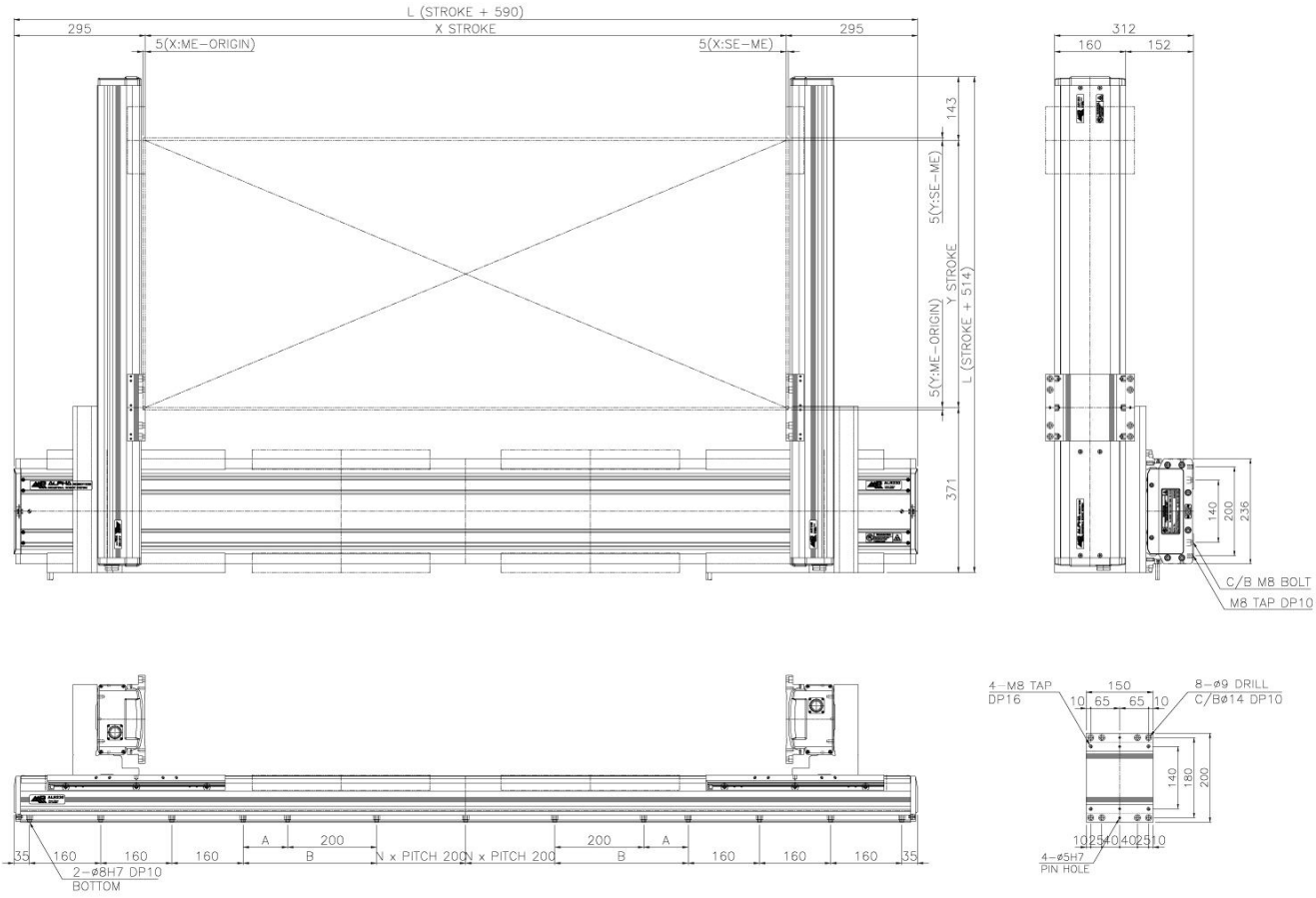
NOTE1 It is different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km



Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR230-2S2-A120	AR160-1S2-40-H
Rated Force	N	560	-
Peak Force	N	1200	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	1000
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	2500	600
Max. Load	kgf	Note3 (214)	32
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
AR160-1S2-40-H	kgf	32	21	17	12	9	4	-	-

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

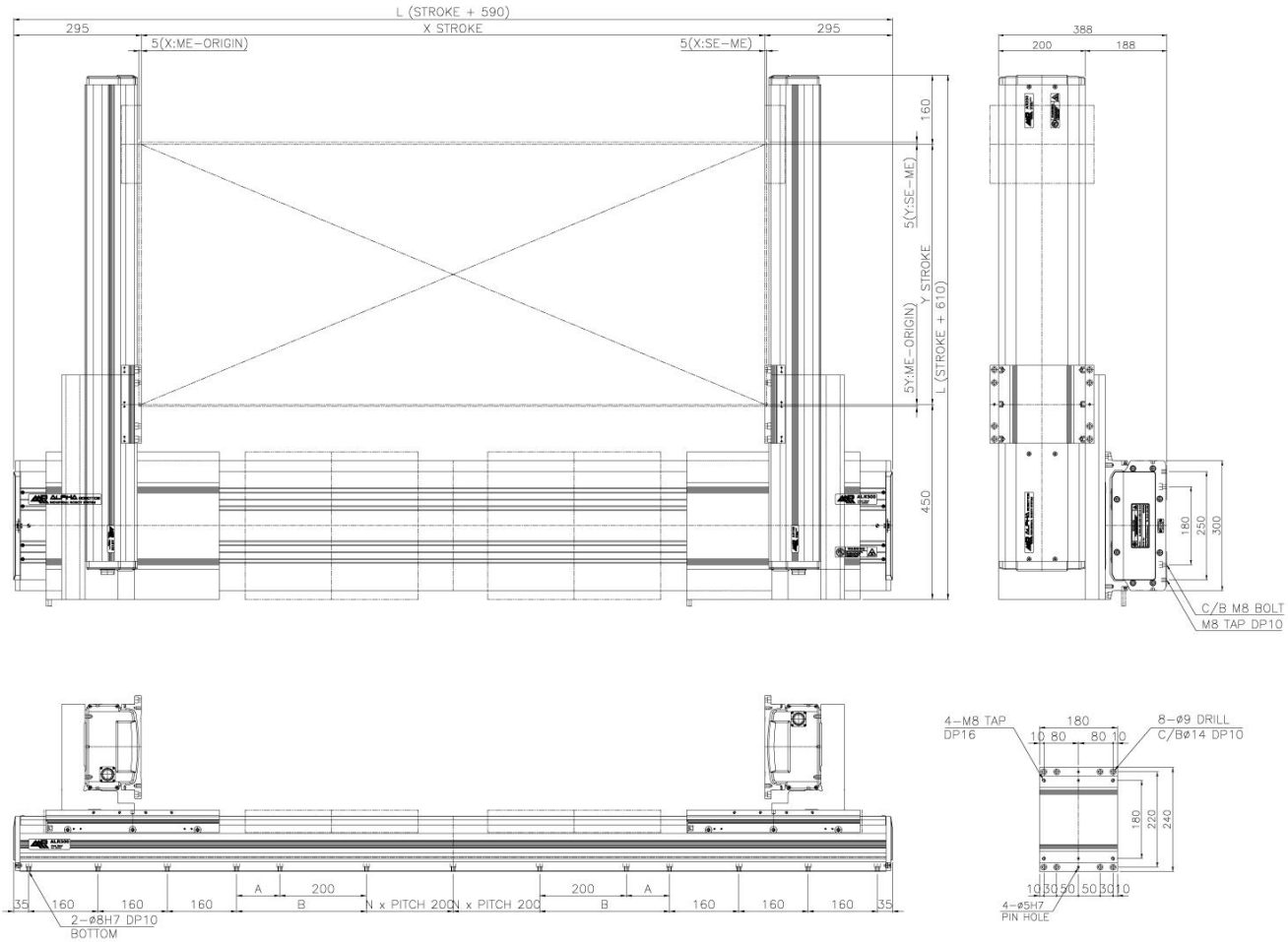
NOTE1 It is different with the specification, maximum speed and using condition.
NOTE2 The maximum speed may not be reached when the length of stroke is short.
NOTE3 It is different with the motion condition.
NOTE4 Acceleration : 0.3G, Life in traveled distance : 30,000km



Specification	Unit	X-AXIS	Y-AXIS
Model Name	Axi s	ALR300-2S2-A240	AR200-1S2-75-H
Rated Force	N	1120	-
Peak Force	N	2400	-
Max. Resolution	㎛	Note1 0.1 ~ 40	20
Max. Speed	mm/sec	Note2 1250	1000
Acceleration	G	Note4 0.3	0.3
Max. Stroke	mm	3000	700
Max. Load	kgf	Note3 (436)	41
LM Guide	-	No 30, 2Rail 6Block	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
AR200-1S2-75-H	kgf	41	30	24	19	14	8	3	-

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