

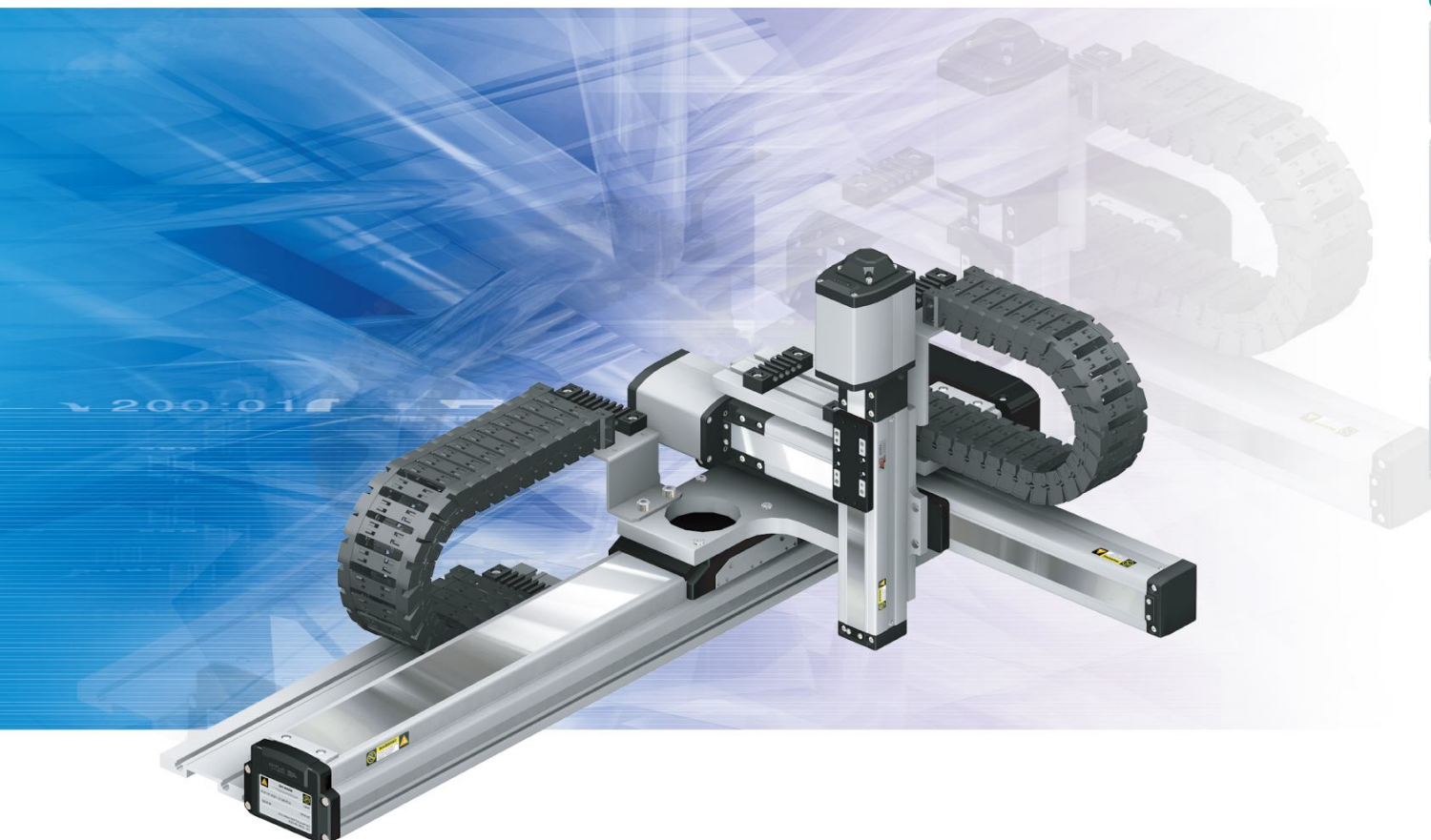
Alpha Clean Miniature

ACM

Alpha Clean Miniature

FEATURE

- Various application is possible due to the greatest cartesian robot line-up.
세계최대의 직교로봇 라인업으로 다양한 어플리케이션 지원
- All series line-up solving problems of designers and users.
설계자와 user의 고민을 해결한 전 시리즈 라인업
- Greatest function among same grade robots through high rigidity by FME analysis.
FME 기구해석으로 고강성을 실현한 동급 최강의 성능
- Various application is possible through Building Block System.
빌딩블럭 시스템 채용으로 다양한 어플리케이션 지원
- Dust-proof structure makes it possible to protect foreign materials so as to extend life of products and cycle time of maintenance.
클린형 방진 구조로 이물질이 본체 내부로 유입되는 것을 방지하여 제품수명 및 Maintenance 주기가 길어짐
- In case of combination of X, Y, Z axes, optimum assembly of brackets and cable ducts realizes maximum functions of high rigidity, high speed, and high accuracy.
기구해석 XYZ조합 시 최적의 조합이 가능하여 고강성, 고속, 고정도의 탁월한 성능발휘
- Application of motor cable connector and cable mount for clean cable treatment extends the life of wires and cables.
케이블 처리를 위한 모터케이블 커넥터 및 케이블마운트 적용으로 배선 및 케이블 수명 연장
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- With compact design and compact cylinder size, various application and minimum mounting space with the same size of Air cylinder are available.
컴팩트한 디자인, 컴팩트한 실린더 사이즈로 다양한 어플리케이션 지원 및 로봇 설치공간의 최소화 실현
- Economic cost.
경제적인 가격
- Environment-friendly system with low lint, dust-proof, low noise.
저발진, 방진, 저소음으로 친환경 시스템 적용
- High rigid structure by FME analysis overcomes demerits of other manufacturers' clean robots.
FME 기구해석으로 고강성을 실현한 구조로 기존(타사)의 클린로봇 단점 보완
- Clean class 100.
크린도 100
- 0.5m/s Maximum speed.
최대속도 0.5m/s
- Application of greatest high load system.
동급최강의 고하중 시스템 적용

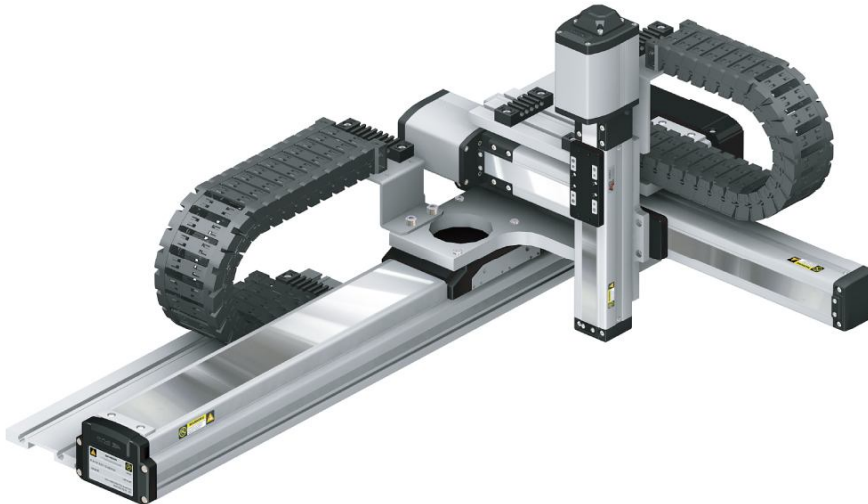


- With application of sense wiring duct, easy maintenance and assembly, positioning adjustment, and high reliability are guaranteed.
센서 배선용 덕트 채용으로 유지보수, 조립, 위치조정이 용이하여 메인テナンス 및 고 신뢰성 확보
- Equipped with individual sense dog and cableveyor, high functionality in single axis and assembled multi axes is realized.
슬라이드에 센서도그 및 케이블베어의 독립 장착구조로 단축 및 조합축 적용 시 탁월한 성능발휘
- Standardization of dedicated assembly brackets for high moment load allows optimum functionality in case of XY combination.
고강성 모멘트하중 전용 신형 조합브라켓을 표준으로 XY 조합 시 탁월한 성능발휘
- No need of special and extra bracket due to standard cable chain duct system.
표준 케이블체인 덕트 시스템 채용으로 별도 브라켓없이 슬라이드에 조립가능 구조
- Environment-friendly system as substitution for Air cylinder which overcome demerits of Air cylinder such as high noise, high operating cost, low control function.
AIR 실린더 대체[친환경 시스템] 적용 에어 실린더의 단점(고소음, 고구동비용, 저제어기능 등)을 극복한 친환경 시스템
- As for works of small size and precise products, economic cost and high reliability are realized.
소형 정밀 작업용으로 고신뢰성, 경제성확보
- With patent technology of high rigid, speed, load structure, applied in such industries as Semi-conduct, Nano-technology, IT fields(Cellular phone, LCD, PDP, GPS, etc).
고강성, 고속, 고하중의 기구특성의 특허기술 적용으로 반도체, 나노, IT 분야[핸드폰, LCD, PDP, GPS, 노트북, 디스플레이] 일반산업 등 다양한 산업 적용

CLEAN ROOM ROBOT ORDER INFORMATION

A ACM SERIES

ACM-Σ4	-	SS	-	50	-	10	B	-	N	9
1		2		3		4	5		6	7



1
SERIES
TYPE

2
SLIDE
TABLE
TYPE

3
STROKE
(mm)

4
MOTOR
RATED OUTPUT

5
BRAKE
OPTION

6
SPEED
(mm/s)

7
BALL SCREW
GRADE

B Options

ER	-	L	-	W	-	N	-	FOO
1		2		3		4		5



1
SENSOR

2
CABLEVEYOR

3
COLOR OF
ROBOT

4
SURFACE
TREATMENT

5
CABLE
LENGTH

CLEAN ROOM ROBOT ORDER INFORMATION

SPEC

 ACM
SERIES

 ACR
SERIES

 ACT
SERIES

 ACC
SERIES

 CMR
SERIES

Σ Standard

ΣN Without Motor Cover

 ALPHA
Clean
Miniature


ACM-Σ4



ACM-Σ5



ACM-Σ6



ACM-ΣN4



ACM-ΣN5



ACM-ΣN6

SS Standard Slide

SL Long Slide


STROKE[mm]

100

200

300

400

500

600

700


05 50W

100 100W

N Without Brake

B With Brake

L Low Speed Type
250 mm/s

N Normal Speed Type
500 mm/s

H High Speed Type
1000 mm/s

7 C7 Ball Screw

9 C9 Ball Screw [Standard]

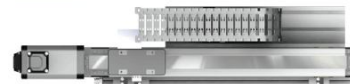
N None

ER External Sensor on right side

EL External Sensor on left side

N None

R Right side

L left side

W White (Standard)

B Black Anodizing

N Surface Treatment (Standard)

R Raydent Surface Treatment (LM Rail)

Flexible Cable

F00 None

F03 3m

F05 5m

F07 7m

F10 10m

* Please do not hesitate to contact us when the cable is applied more than 10m.

 * 케이블 길이가 10m 이상일 경우에는
회사와 협의 바랍니다.



ALPHA CLEAN ROBOT SPECIFICATIONS

[illegible]

ACM
SERIES

PROGRAM

[illegible]

Model	ACM-ΣN4 SS	ACM-ΣN4 SL	ACM-Σ4 SS	ACM-Σ4 SL				
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Specification	Unit	ACM-ΣN4-SS-50W/100W	
ACM-ΣN4-SS-50W		ACM-ΣN4-SS-100W	
			
Rated Output	W	50W,3000min ⁻¹	100W,3000min ⁻¹
Max. Speed	mm/s	250 (500)	
Max. Load	kg	H:10 (7) V:5 (3)	H:12 (12) V:7 (5)
Stroke Range	mm	50 ~ 400	
Repeatability	mm	± 0.02	
Drive Type	-	BALL SCREW	

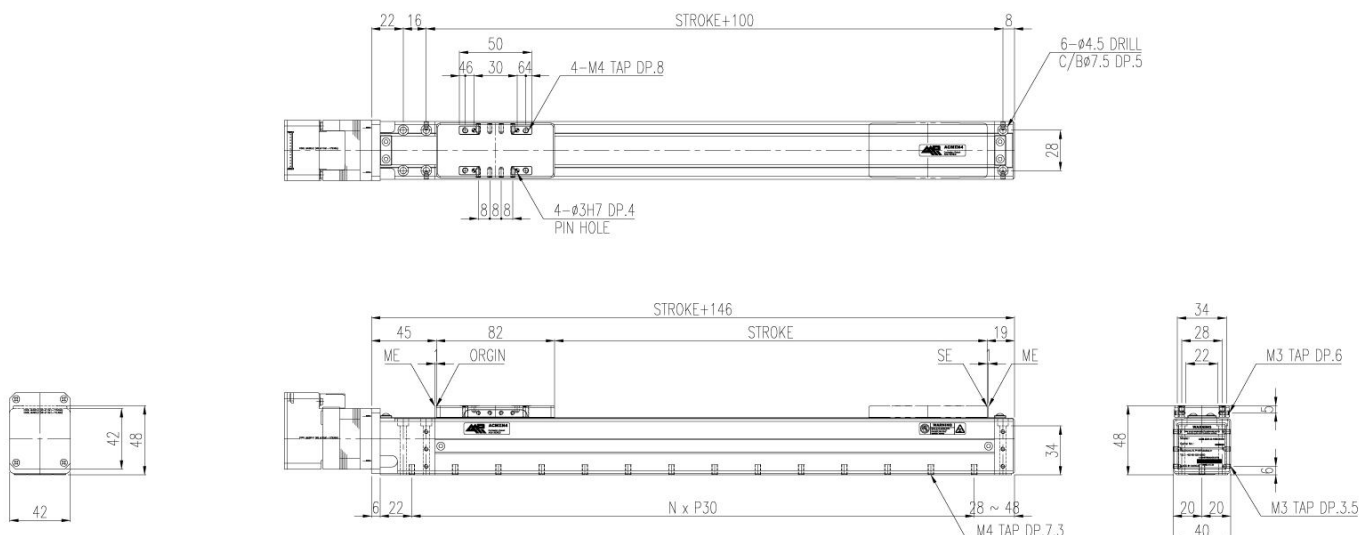
Specification	Unit	Data			
Acceleration	G	0.3			
Load	kg	3	5	7	10
Horizontal Use	0°	85	45	35	20
	45°	105	60	40	25
	90°	320	180	125	80
Wall Installation Use	0°	260	130	70	20
	45°	60	38	18	0
	90°	100	60	45	0
Vertical Use	0°	65	40	28	20
	45°	45	30	20	14
	90°	65	40	28	20
Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)		
	Life in traveled distance : 15000 km				

Note3 Allowable Overhang Distance - mm

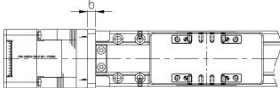
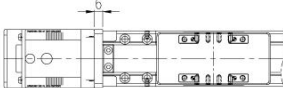
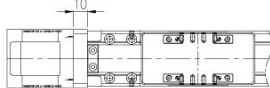
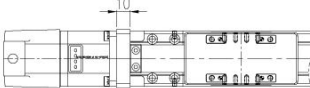
Values of (7)s in case of speed or speed of 1000mm/sec, 7 (10) in case of load or load of 1000N, Load indicates horizontal use and V of max.load indicates vertical use

ACM-ΣN4-SS-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR COOL MUSCLE	STEPPING MOTOR TAMAGAWA	STEPPING MOTOR SANMOTION	SERVO MOTOR MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400			Offset(100)	⚠ CAUTION ✳ 한글버전 01.0.1 Page 008 참조하시거나 문의합니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance
	ACM-ΣN4-SS		kg	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.7			0.1	
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400			Offset(100)	NOTICE In case of the short stroke, it may not be reached at maximum speed. NOTICE It is changed in operating conditions. NOTICE In case of use of products beyond allowable overhang value, it may result in malfunction of products.
	ACM-ΣN4-L		mm/s					250							
	ACM-ΣN4-N		mm/s					500							

ACM-Σ4 SERIES

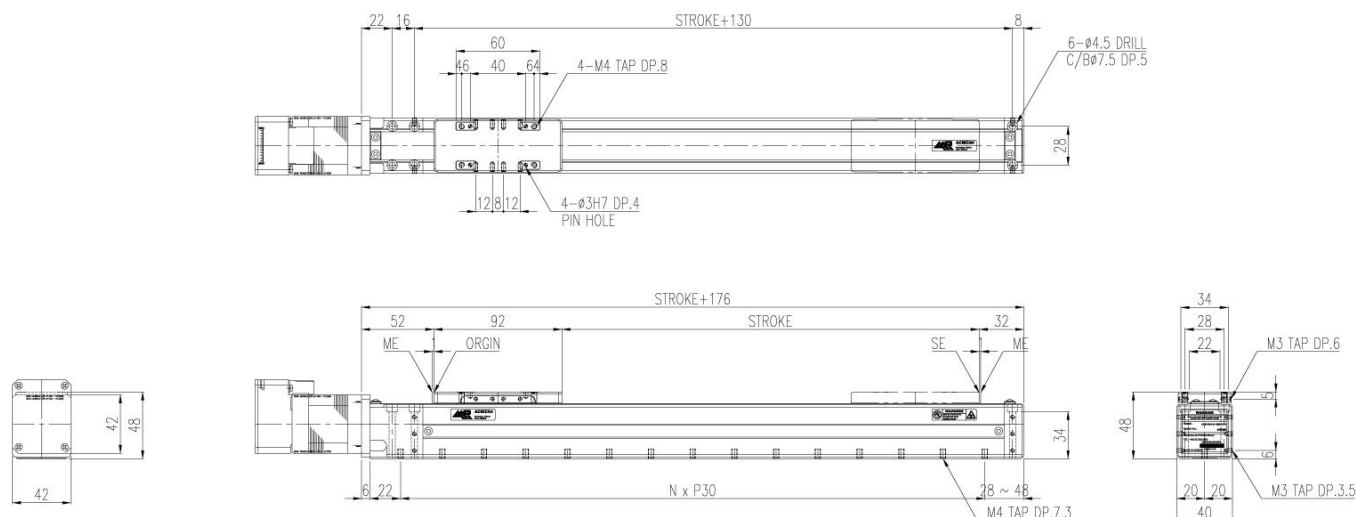
Model	ACM-Σ4 SS	ACM-Σ4 SL	ACM-Σ4 SS	ACM-Σ4 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

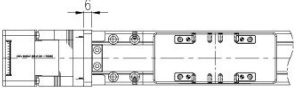
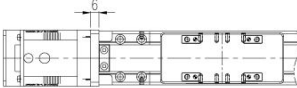
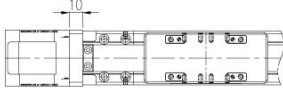
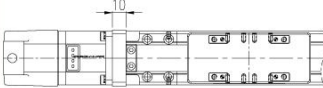
Specification	Unit	ACM-ΣN4-SL-50W/100W		Specification	Unit	Data				
ACM-ΣN4-SL-50W		ACM-ΣN4-SL-100W		Acceleration	G	0.3				
				Load	kg	2	6	10	14	
Rated Output	W	50W,3000min ⁻¹		Horizontal Use	0°	380	120	70	45	
		100W,3000min ⁻¹			45°	370	115	65	45	
					90°	500	500	500	500	
	mm/s	250 (500)		Wall Installation Use	0°	500	500	500	500	
		H:10 (7) V:5 (3)			45°	365	115	65	45	
		H:12 (12) V:7 (5)			90°	380	120	70	45	
Max. Load	kg	50 ~ 400		Vertical Use	0°	500	200	120	85	
Stroke Range	mm	± 0.02			45°	290	95	55	40	
Repeatability	mm				90°	500	170	110	70	
Drive Type	-	BALL SCREW		Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)			
						Life in traveled distance : 15000 km				

ACM-ΣN4-SL-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR COOL MUSCLE	STEPPING MOTOR TAMAGAWA	STEPPING MOTOR SANMOTION	SERVO MOTOR MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400			Offset(100)	 CAUTION ※ 한글본문은 이 O-1 Page 를 참조하시기 바랍니다.
	ACM-ΣN4-SL		kg	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5			0.1	
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400			Offset(100)	
	ACM-ΣN4-L		mm/s					250							NOTE1 In case of the short stroke, it may not be reached at maximum speed.
															NOTE2 It is changed by operating conditions.
	ACM-ΣN4-L		mm/s					500							NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

SPEC

ACM

ACR

ACT

ACC

CMR

Model

ACM-Σ4
SS

ACM-Σ4
SL

ACM-Σ4
SS

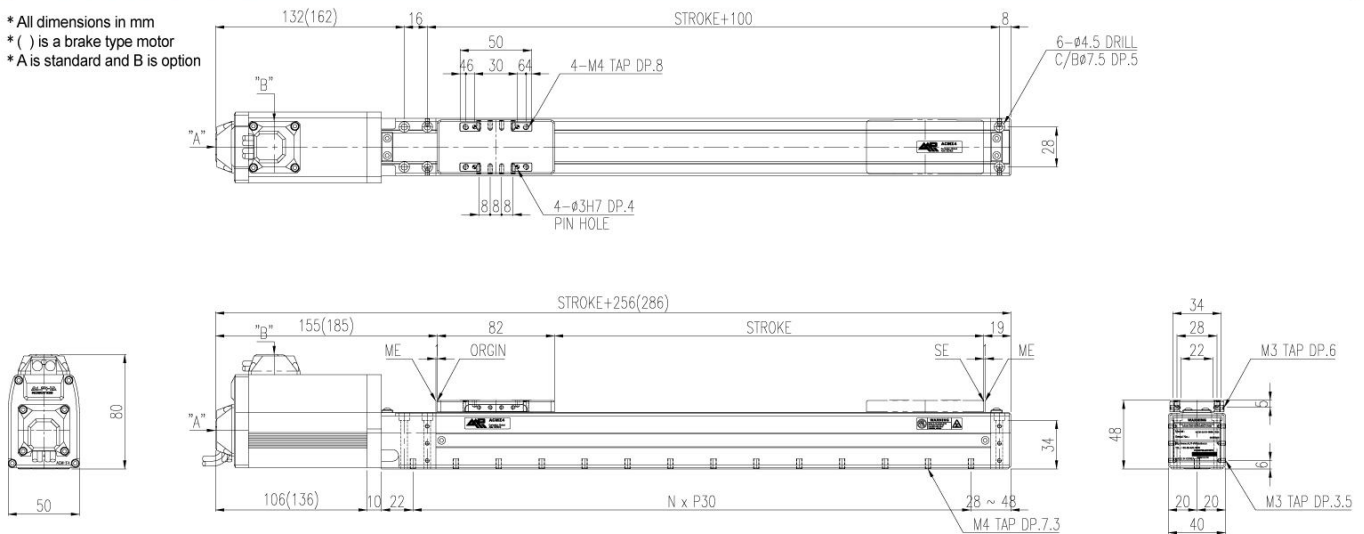
ACM-Σ4
SL

Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max. Load indicates Vertical use.

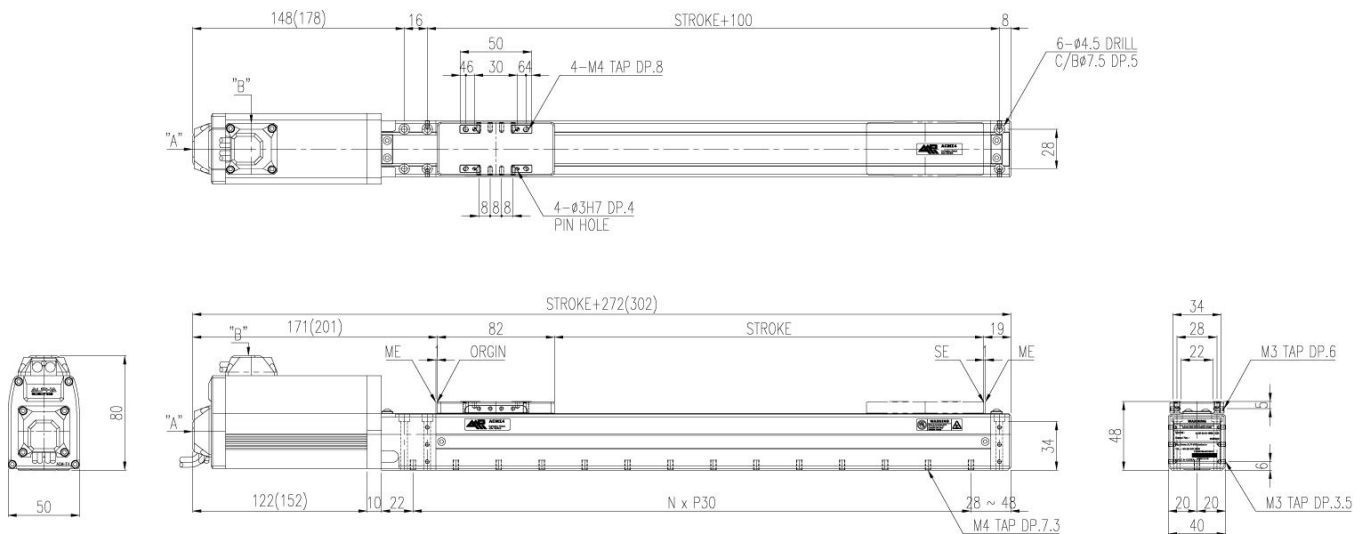
Specification	Unit	ACM-Σ4-SS-50W/100W	ACM-Σ4-SS-100W	Specification	Unit	Data
ACM-Σ4-SS-50W				Acceleration	G	0.3
				Load	kg	3 5 7 10
Rated Output	W	50W,3000min ⁻¹	100W,3000min ⁻¹	Horizontal Use 	0°	85 45 35 20
Max. Speed	Note1 mm/s	250 (500)			45°	105 60 40 25
Max. Load	Note2 kg	H:10 (7) V:5 (3)	H:12 (12) V:7 (5)		90°	320 180 125 80
Stroke Range	mm	50 ~ 400		Wall Installation Use 	0°	260 130 70 20
Repeatability	mm	± 0.02			45°	60 38 18 0
Drive Type	-	BALL SCREW			90°	100 60 45 0
				Vertical Use 	0°	65 40 28 20
					45°	45 30 20 14
					90°	65 40 28 20
				Estimated Condition	Max Speed : 500 mm/s	Acceleration : 0.3 G (2.94/s ²)
					Life in traveled distance : 15000 km	

ACM-Σ4-SS-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-Σ4-SS-100W



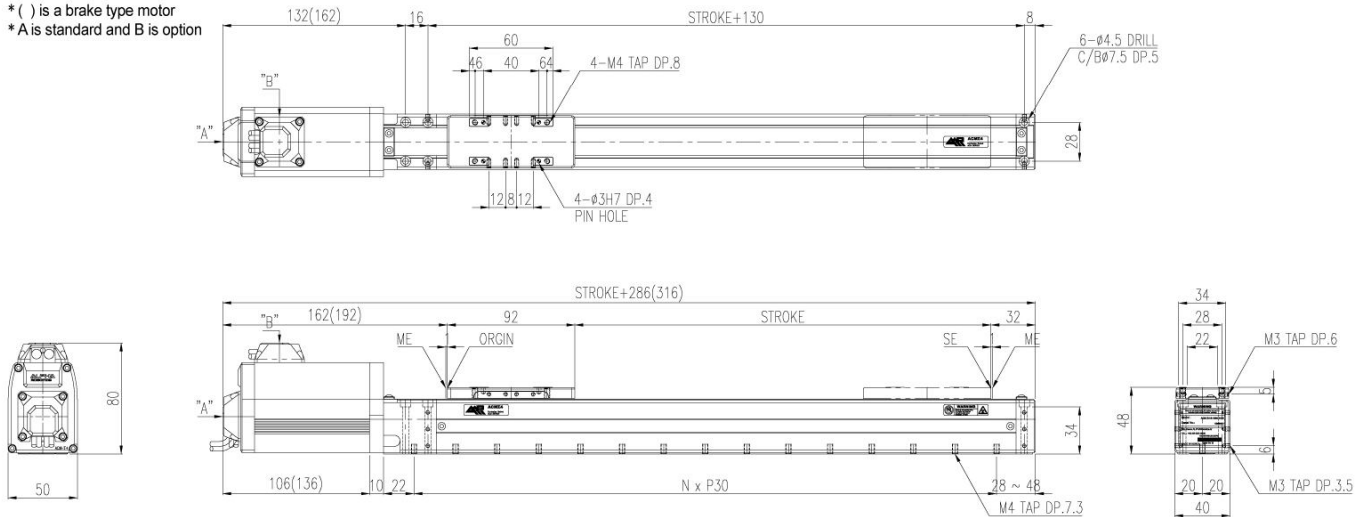
Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	Offset(100)	CAUTION
	ACM-Σ4-SS	kg		0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.7	0.1	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	Offset(100)	NOTE1
	ACM-Σ4-L	mm/s						250					In case of the short stroke, it may not be reached at maximum speed.
	ACM-Σ4-N	mm/s						500					NOTE2 It is changed by operating conditions.
													NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

Model	ACM-ΣN4 SS	ACM-ΣN4 SL	ACM-Σ4 SS	ACM-Σ4 SL				
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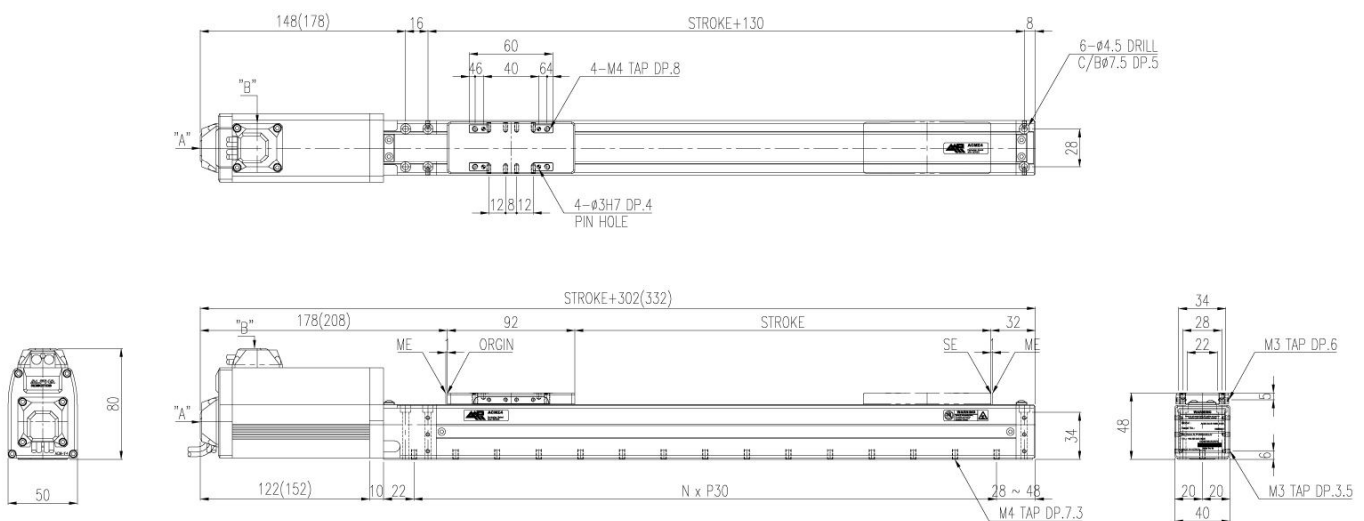
Specification		Unit	ACM-Σ4-SL-50W/100W		ACM-Σ4-SL-100W		Specification		Unit	Data				
ACM-Σ4-SL-50W					ACM-Σ4-SL-100W					0.3				
														
Rated Output		W	50W,3000min ⁻¹		100W,3000min ⁻¹				G					
Max. Speed		Note1	mm/s	250 (500)					kg	2	6	10	14	
Max. Load		Note2	kg	H:10 (7) V:5 (3)		H:12 (12) V:7 (5)				0°	380	120	70	45
Stroke Range			mm	50 ~ 400					45°	370	115	65	45	
Repeatability			mm	± 0.02					90°	500	500	500	500	
Drive Type		-		BALL SCREW					0°	500	500	500	500	
									45°	365	115	65	45	
									90°	380	120	70	45	
									0°	500	200	120	85	
									45°	290	95	55	40	
									90°	500	170	110	70	
</														

ACM-Σ4-SL-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-Σ4-SL-100W



Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	Offset(100)	CAUTION
	ACM-Σ4-SL	kg		1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5	0.1	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME : Mechanical End SE : Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	Offset(100)	NOTE1
	ACM-Σ4-L	mm/s						250					In case of the short stroke, it may not be reached at maximum speed.
	ACM-Σ4-N	mm/s						500					NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

SPEC

ACM

ACR

ACT

ACC

CMR

Model

ACM-ΣN5
SS

ACM-ΣN5
SL

ACM-Σ5
SS

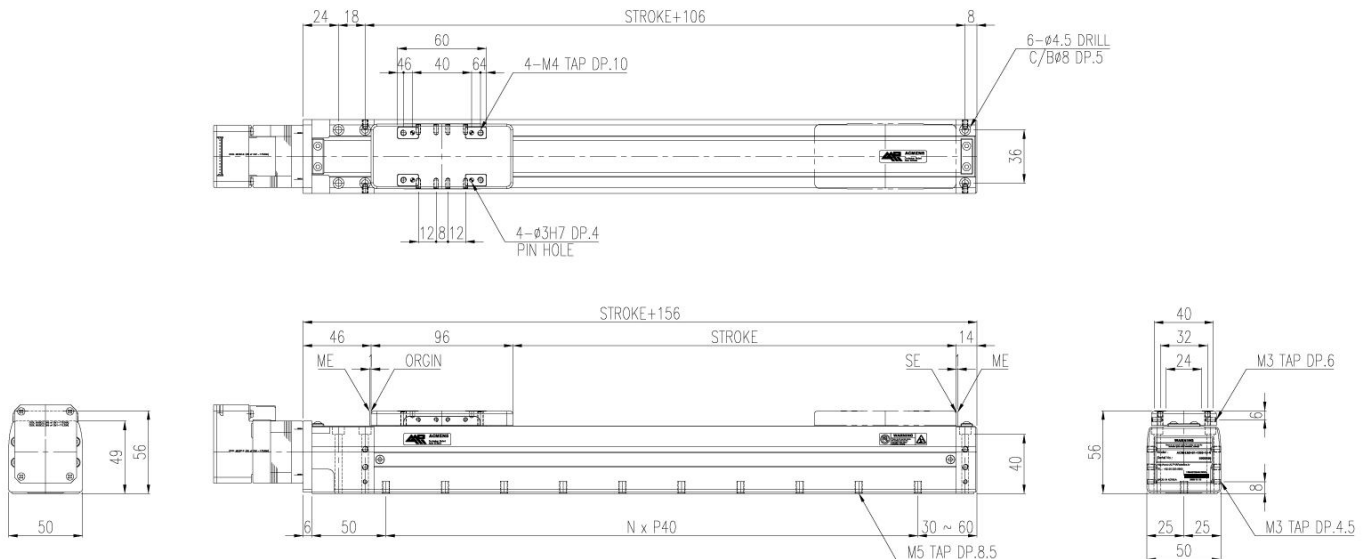
ACM-Σ5
SL

Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

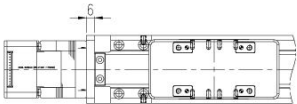
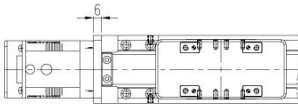
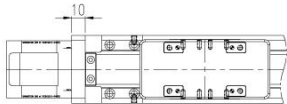
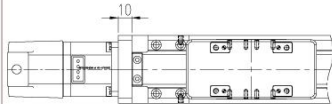
Specification		Unit	ACM-ΣN5-SS-50W/100W		Specification		Unit	Data				
ACM-ΣN5-SS-50W			ACM-ΣN5-SS-100W		Acceleration		G	0.3				
					Load		kg	4	10	15	20	
Rated Output		W	50W,3000min ⁻¹ 100W,3000min ⁻¹		Note3 Allowable Overhang Distance - mm	Horizontal Use		0°	120	45	25	15
Max. Speed		Note1 mm/s	250 (500)					45°	145	50	35	20
Max. Load		Note2 kg	H:18 (11) V:6 (4) H:20 (20) V:10 (9)					90°	410	150	90	60
Stroke Range		mm	50 ~ 600			Wall Installation Use		0°	110	15	0	0
Repeatability		mm	± 0.02					45°	115	15	0	0
Drive Type		-	BALL SCREW					90°	110	15	0	0
					Vertical Use		0°	65	24	13	8	
							45°	55	18	10	6	
							90°	75	23	12	7	
					Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)				
						Life in traveled distance : 15000 km						

ACM-ΣN5-SS-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR	STEPPING MOTOR	STEPPING MOTOR	SERVO MOTOR
COOL MUSCLE	TAMAGAWA	SANMOTION	MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣN5-SS		kg	1.4	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.7	3.0	0.31	※ 한글본역은 C10.1 Page를 참조하시기 바랍니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME : Mechanical End -SE : Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-ΣN5-L		mm/s					250							In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣN5-N		mm/s					500							NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

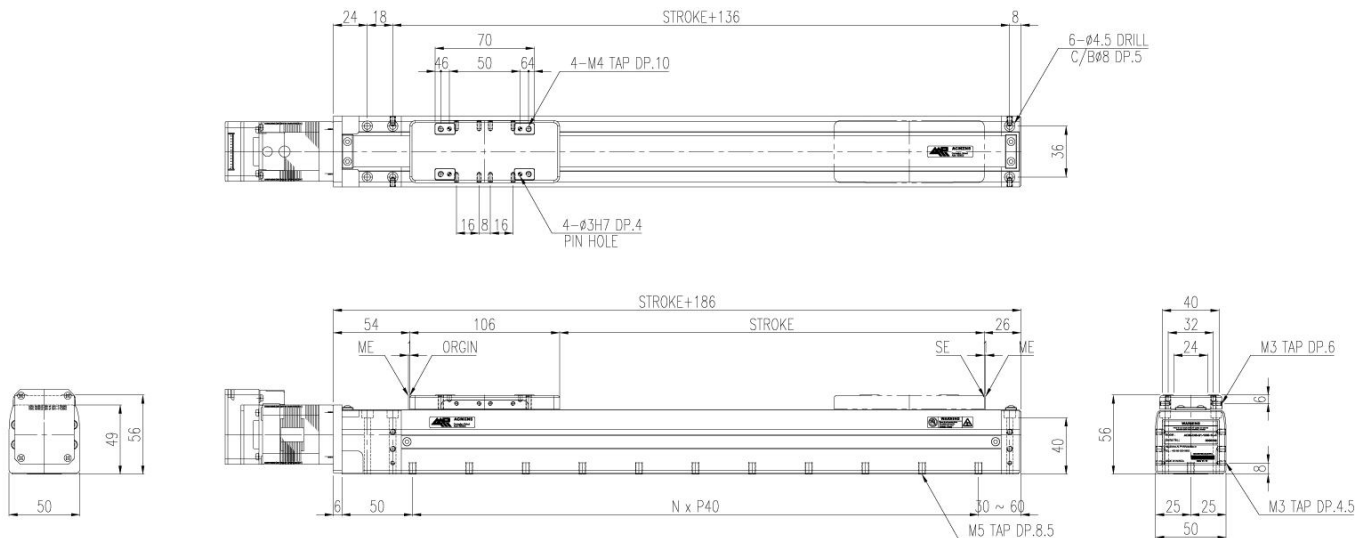
Model	ACM-ΣN5 SS	ACM-ΣN5 SL	ACM-Σ5 SS	ACM-Σ5 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

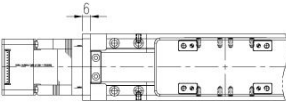
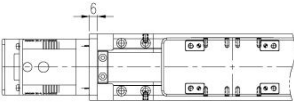
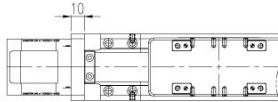
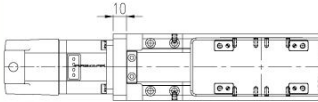
Specification		Unit	ACM-ΣN5-SL-50W/100W		ACM-ΣN5-SL-100W		Specification		Unit	Data			
ACM-ΣN5-SL-50W					ACM-ΣN5-SL-100W					Acceleration			
										G			
Rated Output		W	50W,3000min ⁻¹		100W,3000min ⁻¹		Load		kg	0.3			
Max. Speed	Note1	mm/s	250 (500)				Allowable Overhang Distance - mm	0°		330	160	100	70
Max. Load	Note2	kg	H:18 (11) V:6 (4)		H:20 (20) V:10 (9)			Horizontal Use	45°	320	155	100	70
Stroke Range		mm	50 ~ 600						90°	600	600	600	600
Repeatability		mm	± 0.02						Wall Installation Use	0°	600	600	600
Drive Type	-		BALL SCREW					45°		320	155	100	70
								90°		330	160	100	75
								Vertical Use	0°	430	215	145	105
									45°	225	120	75	55
									90°	425	210	140	105
Estimated Condition		Max Speed : 500 mm/s				Acceleration : 0.3 G (2.94/s ²)							
		Life in traveled distance : 15000 km											

ACM-ΣN5-SL-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR	STEPPING MOTOR	STEPPING MOTOR	SERVO MOTOR
COOL MUSCLE	TAMAGAWA	SANMOTION	MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣN5-SL	kg		2.4	2.6	2.7	2.8	2.9	3.1	3.3	3.4	3.7	3.9	0.31	※ 한글본역은 C10.1 Page를 참조하십시오.
															Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME : Mechanical End SE : Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-ΣN5-L	mm/s						250							In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣN5-N	mm/s						500							NOTE2 It is changed by operating conditions.
															NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

SPEC

ACM

ACR

ACT

ACC

CMR

Model

ACM-ΣN5
SS

ACM-ΣN5
SL

ACM-Σ5
SS

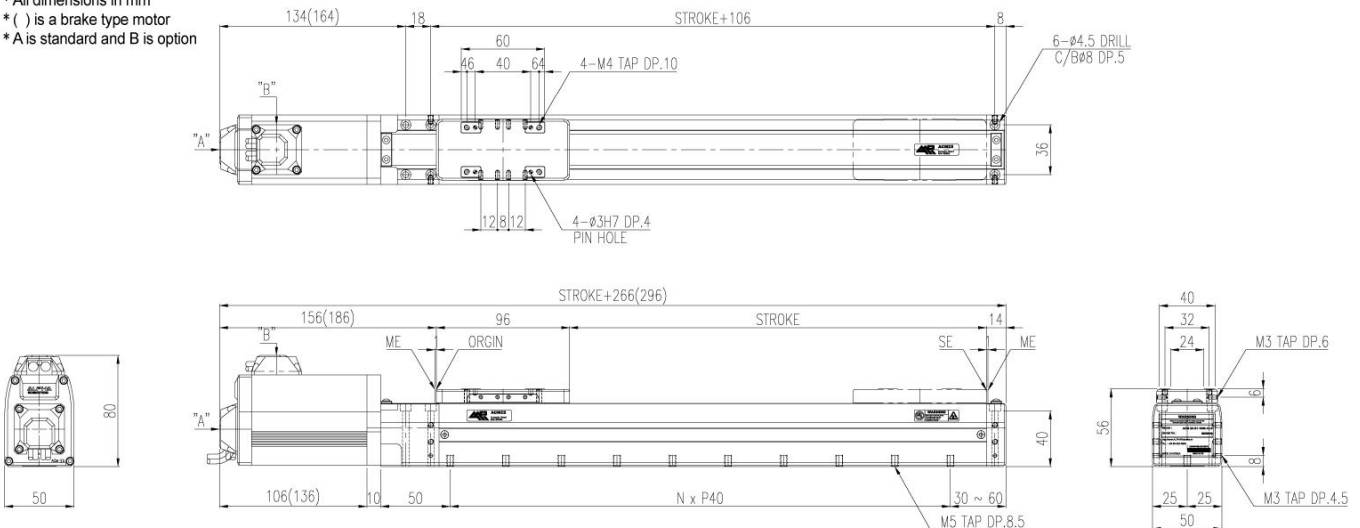
ACM-Σ5
SL

Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max. Load indicates Vertical use.

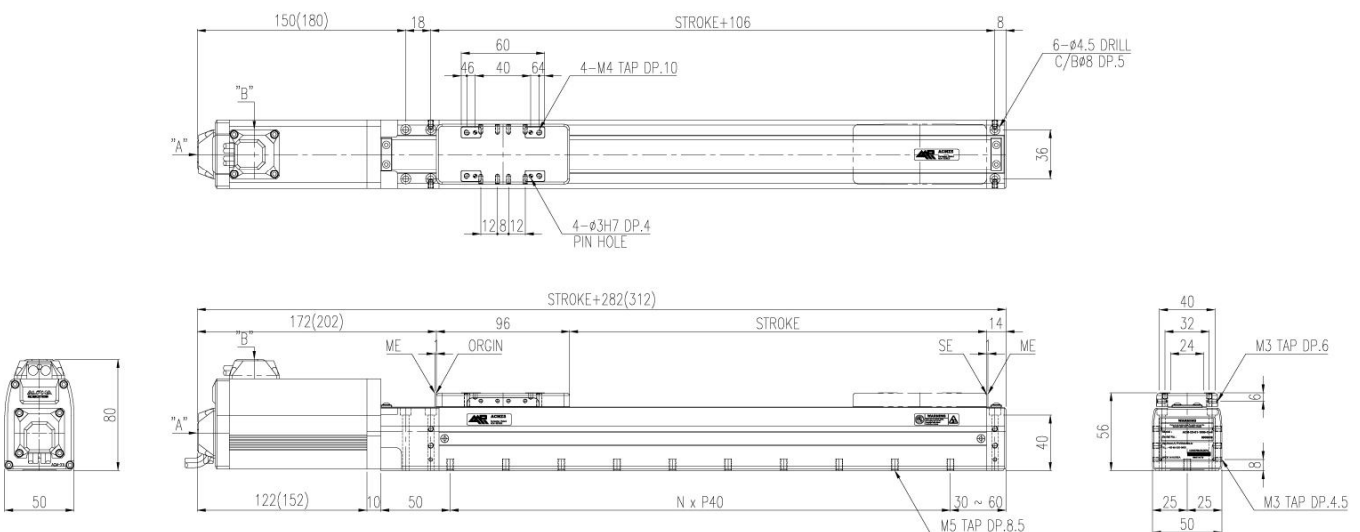
Specification		Unit	ACM-Σ5-SS-50W/100W		Specification		Unit	Data				
ACM-Σ5-SS-50W			ACM-Σ5-SS-100W		Acceleration		G	0.3				
					Load		kg	4	10	15	20	
Rated Output		W	50W,3000min ⁻¹ 100W,3000min ⁻¹		Note3 Allowable Overhang Distance - mm	Horizontal Use		0°	120	45	25	15
Max. Speed		Note1 mm/s	250 (500)					45°	145	50	35	20
Max. Load		Note2 kg	H:18 (11) V:6 (4) H:20 (20) V:10 (9)					90°	410	150	90	60
Stroke Range		mm	50 ~ 600			Wall Installation Use		0°	110	15	0	0
Repeatability		mm	± 0.02					45°	115	15	0	0
Drive Type		-	BALL SCREW					90°	110	15	0	0
						Vertical Use		0°	65	24	13	8
								45°	55	18	10	6
								90°	75	23	12	7
						Estimated Condition	Max Speed : 500 mm/s			Acceleration : 0.3 G (2.94/s ²)		
					Life in traveled distance : 15000 km							

ACM-Σ5-SS-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-Σ5-SS-100W



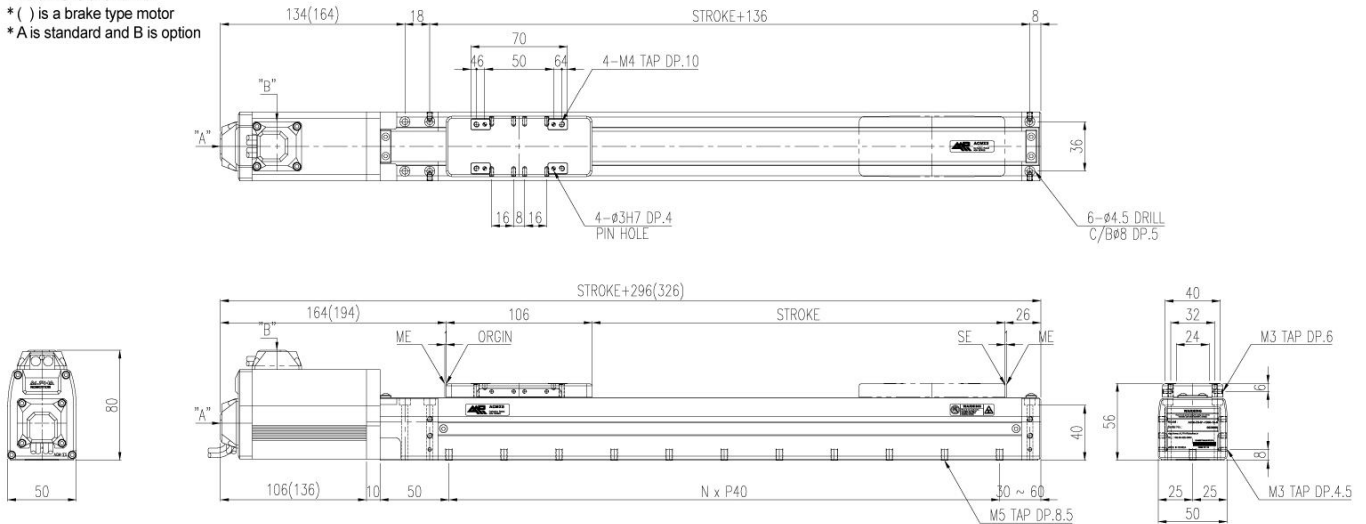
Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION	
	ACM-Σ5-SS	kg		1.4	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.7	3.0	0.31	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance	
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1 In case of the short stroke, it may not be reached at maximum speed.	
	ACM-Σ5-L	mm/s						250							NOTE2 It is changed by operating conditions.	
	ACM-Σ5-N	mm/s						500							NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.	

Model	ACM-ΣN5 SS	ACM-ΣN5 SL	ACM-Σ5 SS	ACM-Σ5 SL				
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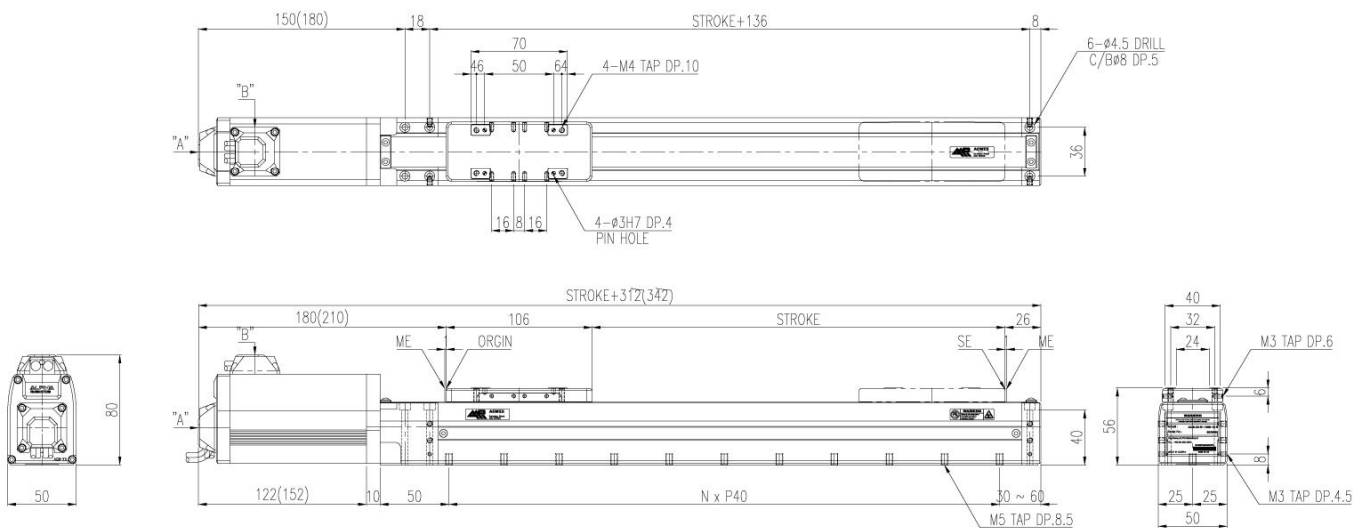
Specification		Unit	ACM-Σ5-SL-50W/100W		ACM-Σ5-SL-100W		Specification		Unit	Data					
ACM-Σ5-SL-50W							Acceleration		G	0.3					
Rated Output		W	50W,3000min ⁻¹		100W,3000min ⁻¹		Load		kg	5	10	15	20		
Max. Speed		Note1	mm/s		250 (500)		Allowable Overhang Distance - mm	Horizontal Use			0°	330	160	100	70
								45°			320	155	100	70	
								90°			600	600	600	600	
Max. Load		Note2	kg		H:18 (11) V:6 (4) H:20 (20) V:10 (9)			Wall Installation Use			0°	600	600	600	600
								45°			320	155	100	70	
								90°			330	160	100	75	
Stroke Range		mm	50 ~ 600					Vertical Use			0°	430	215	145	105
Repeatability		mm	± 0.02					45°			225	120	75	55	
								90°			425	210	140	105	
Drive Type		-	BALL SCREW				Estimated Condition		Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)				
									Life in traveled distance : 15000 km						

ACM-Σ5-SL-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-Σ5-SL-100W



Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-Σ5-SL	kg		2.4	2.6	2.7	2.8	2.9	3.1	3.3	3.4	3.7	3.9	0.31	※ 한글본역은 C10.1 Page를 참조하시기 바랍니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-Σ5-L	mm/s													In case of the short stroke, it may not be reached at maximum speed.
	ACM-Σ5-N	mm/s													NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

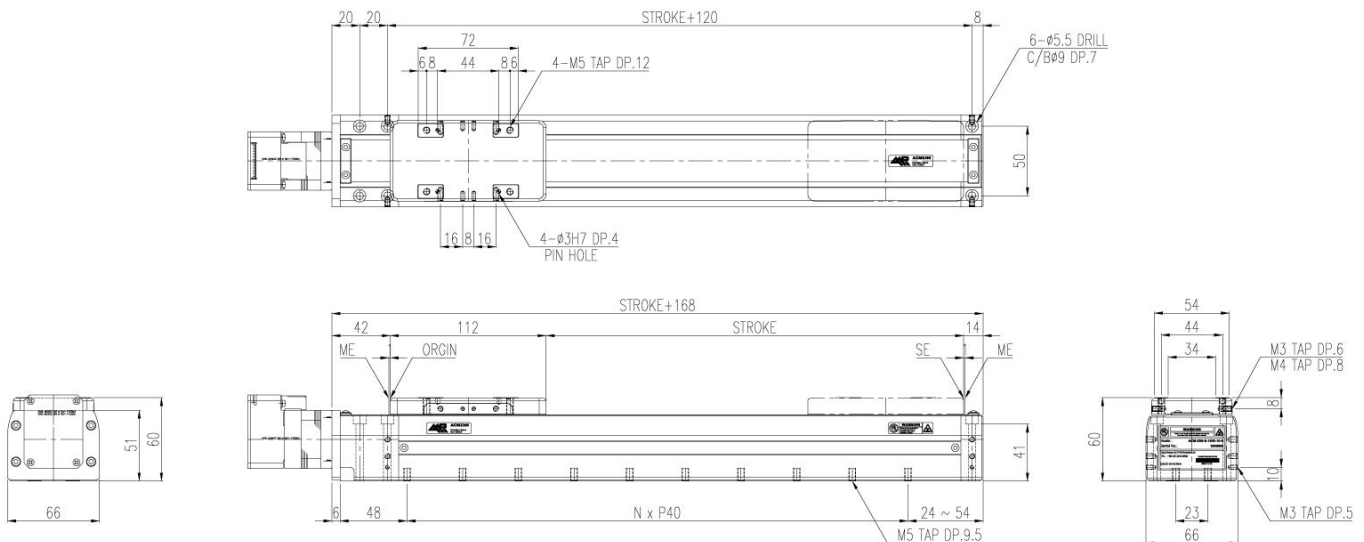
Model	ACM-ΣN6 SS	ACM-ΣN6 SL	ACM-Σ6 SS	ACM-Σ6 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

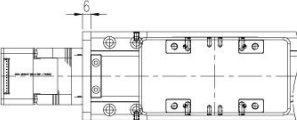
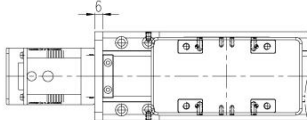
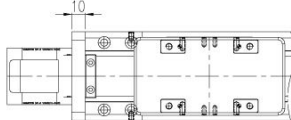
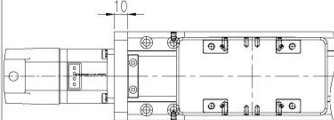
Specification	Unit	ACM-ΣN6-SS-50W/100W		Specification	Unit	Data				
ACM-ΣN6-SS-50W		ACM-ΣN6-SS-100W		Acceleration	G	0.3				
				Load	kg	4	10	20	30	
Rated Output	W	50W,3000min ⁻¹ 100W,3000min ⁻¹		Horizontal Use 	0°	300(350)	125	60	40	
Max. Speed Note1	mm/s	250 (500)			45°	380	140	70	50	
Max. Load Note2	kg	H:30 (11) V:10 (4) H:30 (21) V:13 (9)			90°	900	320	140	80	
Stroke Range	mm	50 ~ 600		Wall Installation Use 	0°	310	110	25	0	
Repeatability	mm	± 0.02			45°	245	75	20	2	
Drive Type	-	BALL SCREW			90°	310	105	25	2	
				Vertical Use 	0°	155	52	17	6	
					45°	115	35	13	3	
					90°	160	55	16	4	
				Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)			
					Life in traveled distance : 15000 km					

ACM-ΣN6-SS-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR	STEPPING MOTOR	STEPPING MOTOR	SERVO MOTOR
COOL MUSCLE	TAMAGAWA	SANMOTION	MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣN6-SS		kg	2.3	2.5	2.7	2.9	3.1	3.4	3.6	3.8	4.2	4.6	0.45	※ 한글판은 C10.1 Page 를 참조하시기 바랍니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME : Mechanical End -SE : Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-ΣN6-L		mm/s					250							In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣN6-N		mm/s					500							NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

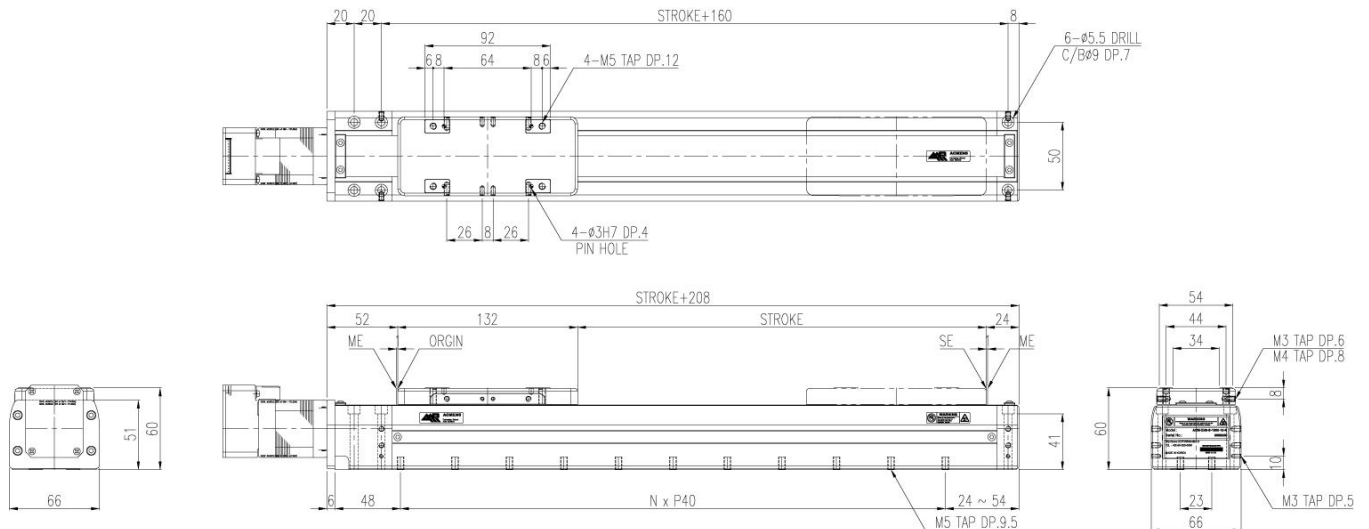
Model	ACM-ΣN6 SS	ACM-ΣN6 SL	ACM-Σ6 SS	ACM-Σ6 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max. Load indicates Vertical use.

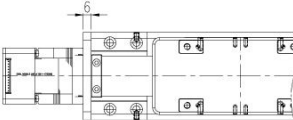
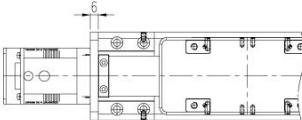
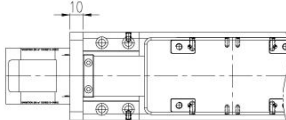
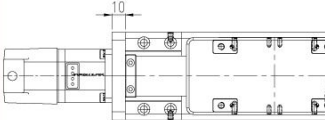
Specification		Unit	ACM-ΣN6-SL-50W/100W		Specification		Unit	Data				
ACM-ΣN6-SL-50W			ACM-ΣN6-SL-100W		Acceleration		G	0.3				
					Load		kg	5	10	20	25	
Rated Output		W	50W,3000min ⁻¹ 100W,3000min ⁻¹		Allowable Overhang Distance - mm	Horizontal Use		0°	900	450	210	165
Max. Speed		Note1 mm/s	250 (500)					45°	850	420	205	160
Max. Load		Note2 kg	H:30 (11) V:10 (4) H:30 (21) V:13 (9)					90°	700	700	700	700
Stroke Range		mm	50 ~ 600			Wall Installation Use		0°	700	700	700	700
Repeatability		mm	± 0.02					45°	850	420	200	160
Drive Type		-	BALL SCREW					90°	900	450	210	165
						Vertical Use		0°	800	440	220	175
								45°	450	220	120	90
								90°	850	420	210	170
					Estimated Condition	Max Speed : 500 mm/s			Acceleration : 0.3 G (2.94/s ²)			
						Life in traveled distance : 15000 km						

ACM-ΣN6-SL-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR	STEPPING MOTOR	STEPPING MOTOR	SERVO MOTOR
COOL MUSCLE	TAMAGAWA	SANMOTION	MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣN6-SL	kg		3.3	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.3	5.7	0.45	※ 한글번역은 C10.1 Page 를 참조하시기 바랍니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME : Mechanical End SE : Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-ΣN6-L	mm/s						250							In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣN6-N	mm/s						500							NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

SPEC

ACM

ACR

ACT

ACC

CMR

Model

ACM-Σ6
SS

ACM-Σ6
SL

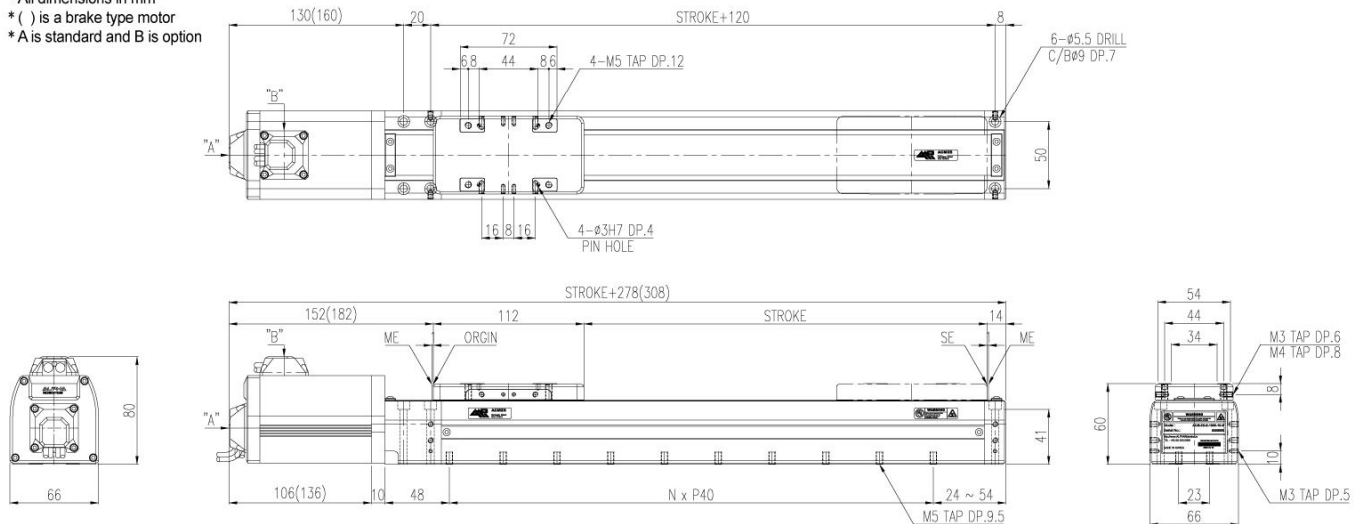
ACM-Σ6
SS

ACM-Σ6
SL

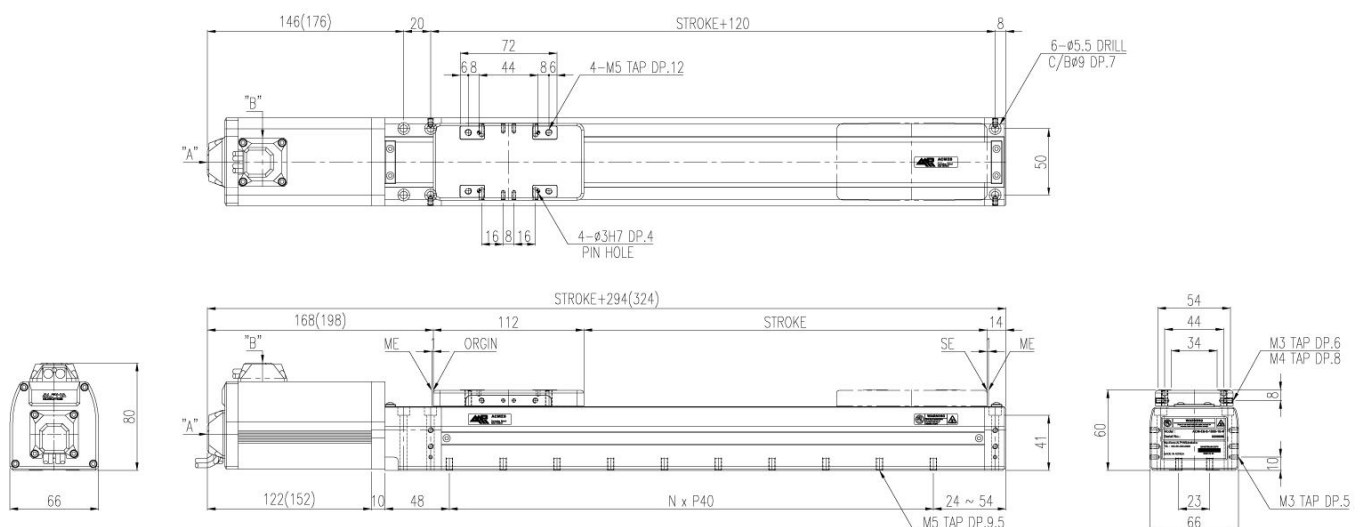
Specification	Unit	ACM-Σ6-SS-50W/100W	Specification	Unit	Data
ACM-Σ6-SS-50W		ACM-Σ6-SS-100W	Acceleration	G	0.3
			Load	kg	4 10 20 30
Rated Output	W	50W,3000min ⁻¹ 100W,3000min ⁻¹	Horizontal Use	0°	300(350)
Max. Speed	Note1 mm/s	250 (500)	45°	380	125 60 40
Max. Load	Note2 kg	H:30 (11) V:10 (4) H:30 (21) V:13 (9)	90°	900	140 70 50
Stroke Range	mm	50 ~ 600	Wall Installation Use	0°	310
Repeatability	mm	± 0.02	45°	245	110 25 0
Drive Type	-	BALL SCREW	90°	310	105 25 2
			Vertical Use	0°	155
			45°	115	52 17 6
			90°	160	35 13 3
			Estimated Condition	Max Speed : 500 mm/s	Acceleration : 0.3 G (2.94/s ²)
				Life in traveled distance : 15000 km	

ACM-Σ6-SS-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-Σ6-SS-100W



Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-Σ6-SS	kg		2.3	2.5	2.7	2.9	3.1	3.4	3.6	3.8	4.2	4.6	0.45	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME : Mechanical End -SE : Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-Σ6-L	mm/s							250						In case of the short stroke, it may not be reached at maximum speed.
	ACM-Σ6-N	mm/s							500						NOTE2 It is changed by operating conditions.
															NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

ACM-Σ6 SERIES

Model	ACM-ΣN6 SS	ACM-ΣN6 SL	ACM-Σ6 SS	ACM-Σ6 SL				
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Specification		Unit	ACM-Σ6-SL-50W/100W		ACM-Σ6-SL-100W	
						
Rated Output	W		50W,3000min ⁻¹	100W,3000min ⁻¹		
Max. Speed	Note1	mm/s	250 (500)			
Max. Load	Note2	kg	H:30 (11) V:10 (4) H:30 (21) V:13 (9)			
Stroke Range		mm	50 ~ 600			
Repeatability		mm	± 0.02			
Drive Type	-		BALL SCREW			

Specification		Unit	Data				
Acceleration		G	0.3				
Load		kg	5	10	20	25	
Horizontal Use		0°	900	450	210	165	
		45°	850	420	205	160	
		90°	700	700	700	700	
Wall Installation Use		0°	700	700	700	700	
		45°	850	420	200	160	
		90°	900	450	210	165	
Vertical Use		0°	800	440	220	175	
		45°	450	220	120	90	
		90°	850	420	210	170	
Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)				
	Life in traveled distance : 15000 km						

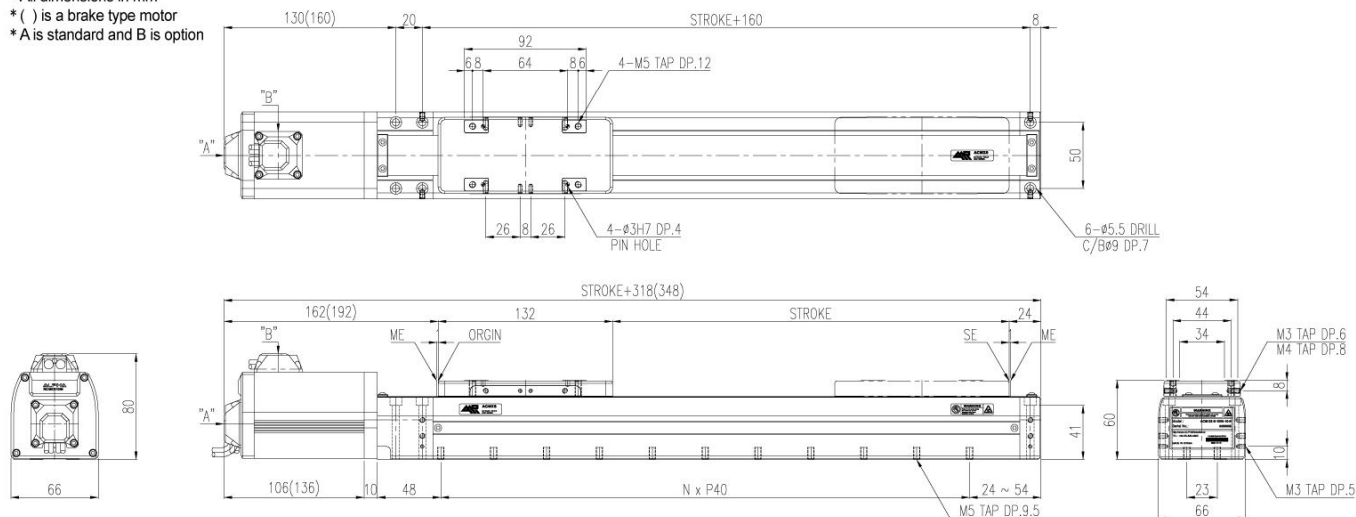
Note3 Allowable Overhang Distance・mm

ACM-Σ6-SL-50W

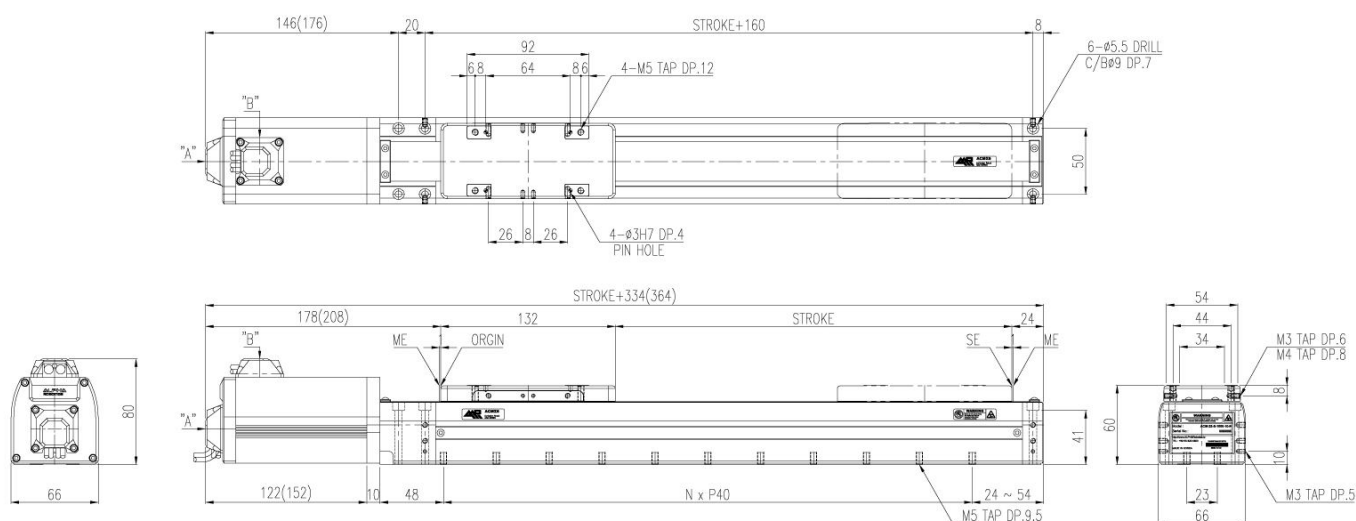
* All dimensions in mm

* () is a brake type motor

* A is standard and B is option



ACM-Σ6-SL-100W

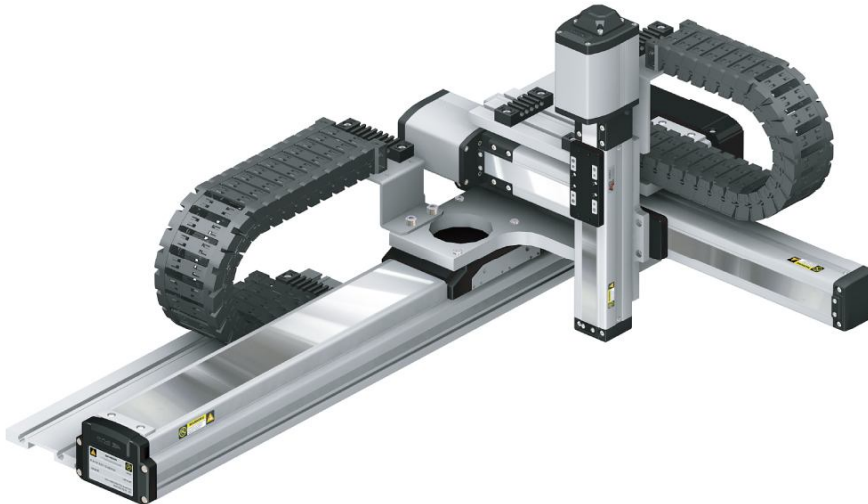


Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	⚠ CAUTION ※ 한글권은 10.0 Page 중 최초치에 맞춥니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance
	ACM-Σ6-SL		kg	3.3	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.3	5.7	0.45	
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	INSTRUCTION In case of the short stroke, it may not be reached at maximum speed. EXPLANATION It is changed by operating conditions. INSTRUCTION In case of use of products beyond allowable overhang value, it may result in malfunction of products.
	ACM-Σ6-L		mm/s					250							
	ACM-Σ6-N		mm/s					500							

CLEAN ROOM ROBOT ORDER INFORMATION

A ACM SERIES

ACM-ΣV4	-	SS	-	50	-	10	B	-	N	9
1		2		3		4	5		6	7



1
CLEAN
CLASS
SERIES

2
SLIDE
TABLE
TYPE

3
STROKE
(mm)

4
MOTOR
RATED OUTPUT

5
BRAKE
OPTION

6
SPEED
(mm/s)

7
BALL SCREW
GRADE

B Options

ER	-	L	-	W	-	N	-	FOO
1		2		3		4		5



1
SENSOR

2
CABLEVEYOR

3
COLOR OF
ROBOT

4
SURFACE
TREATMENT

5
CABLE
LENGTH

CLEAN ROOM ROBOT ORDER INFORMATION

ΣV Vacuum type standard
(Clean class 100)



ΣVN Vacuum type without motor cover
(Clean class 100)



ALPHA
Clean
Miniature



ACM-ΣV4



ACM-ΣV5



ACM-ΣV6



ACM-ΣVN4



ACM-ΣVN5

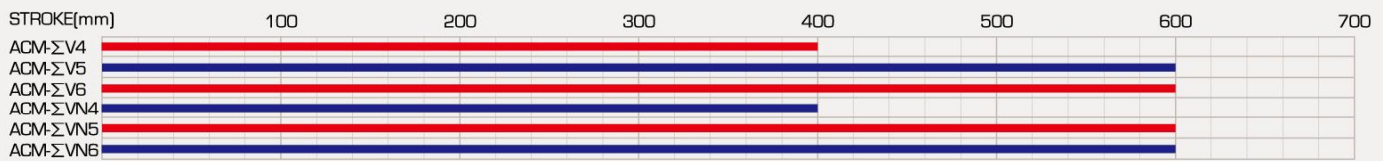
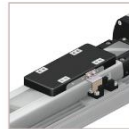


ACM-ΣVN6

SS Standard Slide



SL Long Slide



05 50W

100 100W

N Without Brake

B With Brake

L Low Speed Type
250 mm/s

N Normal Speed Type
500 mm/s

H High Speed Type
1000 mm/s

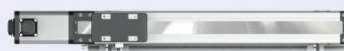
7 C7 Ball Screw

9 C9 Ball Screw [Standard]

N None

ER External Sensor on right side

EL External Sensor on left side



N None

R Right side

L left side



W White (Standard)

B Black Anodizing

N Surface Treatment (Standard)

R Raydent Surface Treatment (LM Rail)

Flexible Cable

F00 None

F03 3m

F05 5m

F07 7m

F10 10m

* Please do not hesitate to contact us when the cable is applied more than 10m.
* 케이블 길이가 10m 이상일 경우에는
회사와 협의 바랍니다.



ALPHA CLEAN ROBOT SPECIFICATIONS

[illegible]

ACM
SERIES

PROGRAM

[illegible]

Model	ACM-ΣVN4 SS	ACM-ΣVN4 SL	ACM-ΣV4 SS	ACM-ΣV4 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max. Load indicates Vertical use.

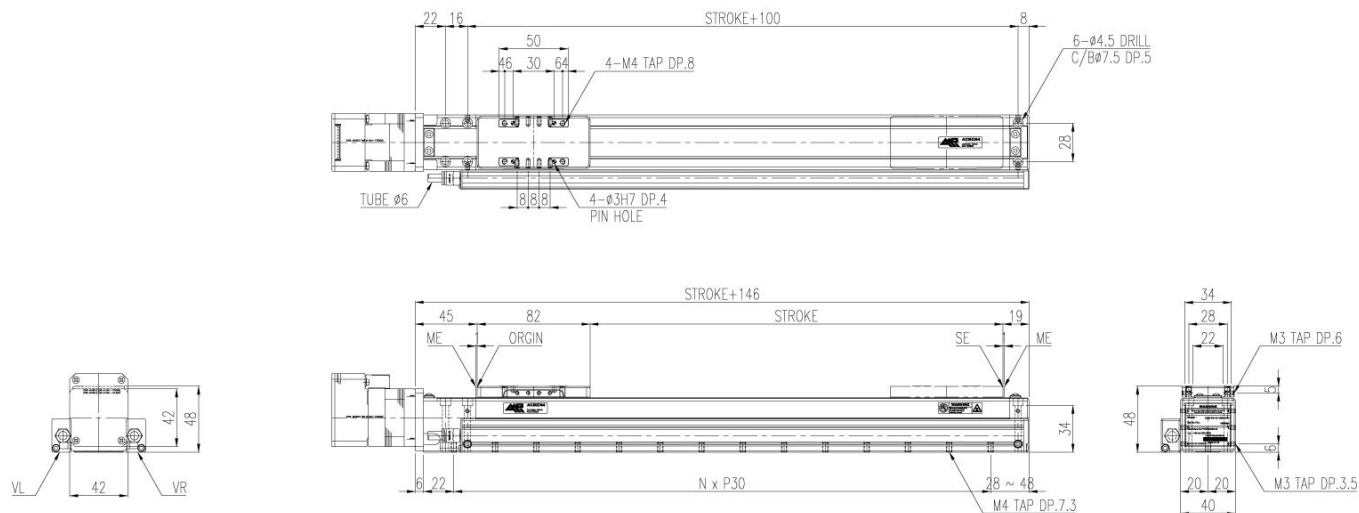
Specification		Unit	ACM-ΣVN4-SS-50W/100W		ACM-ΣVN4-SS-100W	
ACM-ΣVN4-SS-50W					ACM-ΣVN4-SS-100W	
						
Rated Output	W		50W,3000min ⁻¹	100W,3000min ⁻¹		
Max. Speed	Note1 mm/s		250 (500)			
Max. Load	Note2 kg		H:10 (7) V:5 (3)	H:12 (12) V:7 (5)		
Stroke Range	mm		50 ~ 400			
Repeatability	mm		± 0.02			
Drive Type	-		BALL SCREW			

Specification		Unit	Data			
Acceleration		G	0.3			
Load		kg	3	5	7	10
Horizontal Use		0°	85	45	35	20
		45°	105	60	40	25
		90°	320	180	125	80
Wall Installation Use		0°	260	130	70	20
		45°	60	38	18	0
		90°	100	60	45	0
Vertical Use		0°	65	40	28	20
		45°	45	30	20	14
		90°	65	40	28	20
Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)			
	Life in traveled distance : 15000 km					

Note3 Allowable Overhang Distance - mm

ACM-ΣVN4-SS-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR COOL MUSCLE	STEPPING MOTOR TAMAGAWA	STEPPING MOTOR SANMOTION	SERVO MOTOR MITSUBISHI/YASKAWA

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400			Offset(100)	⚠ CAUTION ✳ 한글버전 01.0.1 Page 20을 참조하시기 바랍니다.
	ACM-EVN4-S		kg	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.7			0.1	
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400			Offset(100)	NOTICE In case of the short stroke, it may not be reached at maximum speed. NOTICE It is changed in operating conditions. NOTICE In case of use of products beyond allowable overhang value, it may result in malfunction of products.
	ACM-EVN4-L		mm/s				250								
	ACM-EVN4-N		mm/s				500								

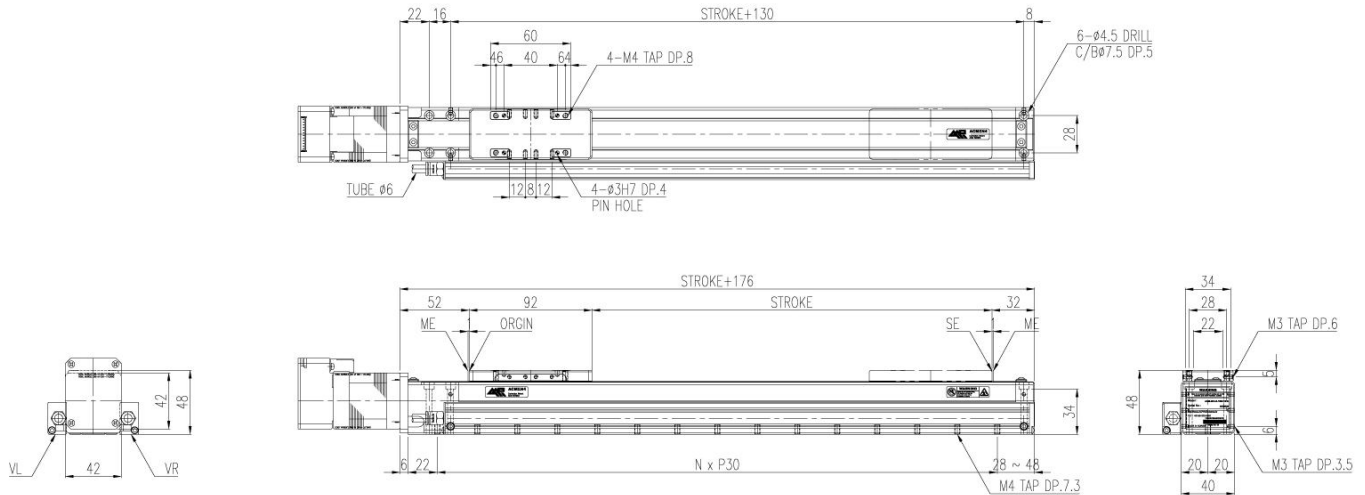
Model	ACM-ΣVN4 SS	ACM-ΣVN4 SL	ACM-ΣV4 SS	ACM-ΣV4 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

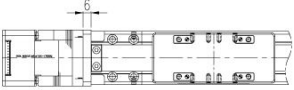
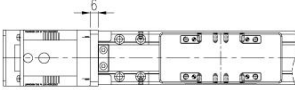
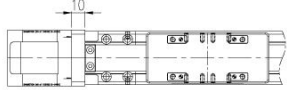
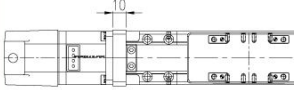
Specification		Unit	ACM-ΣVN4-SL-50W/100W		Specification		Unit	Data							
ACM-ΣVN4-SL-50W			ACM-ΣVN4-SL-100W		Acceleration		G	0.3							
					Load		kg	2	6	10	14				
Rated Output	W	50W,3000min ⁻¹	100W,3000min ⁻¹	Note1	mm/s	250 (500)	Horizontal Use		0°	380	120	70	45		
									45°	370	115	65	45		
									90°	500	500	500	500		
									Wall Installation Use		0°	500	500	500	500
											45°	365	115	65	45
											90°	380	120	70	45
Vertical Use		0°	500	200	120	85									
		45°	290	95	55	40									
		90°	500	170	110	70									
Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)												
	Life in traveled distance : 15000 km														

ACM-ΣVN4-SL-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR	STEPPING MOTOR	STEPPING MOTOR	SERVO MOTOR
COOL MUSCLE	TAMAGAWA	SANMOTION	MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400		Offset(100)	CAUTION
	ACM-ΣVN4-SL	kg		1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5		0.1	※ 한글번역은 C10.1 Page 를 참조하시기 바랍니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME : Mechanical End -SE : Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400		Offset(100)	NOTE1
	ACM-ΣVN4-L	mm/s						250						In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣVN4-N	mm/s						500						NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

ACM-Σ4 SERIES

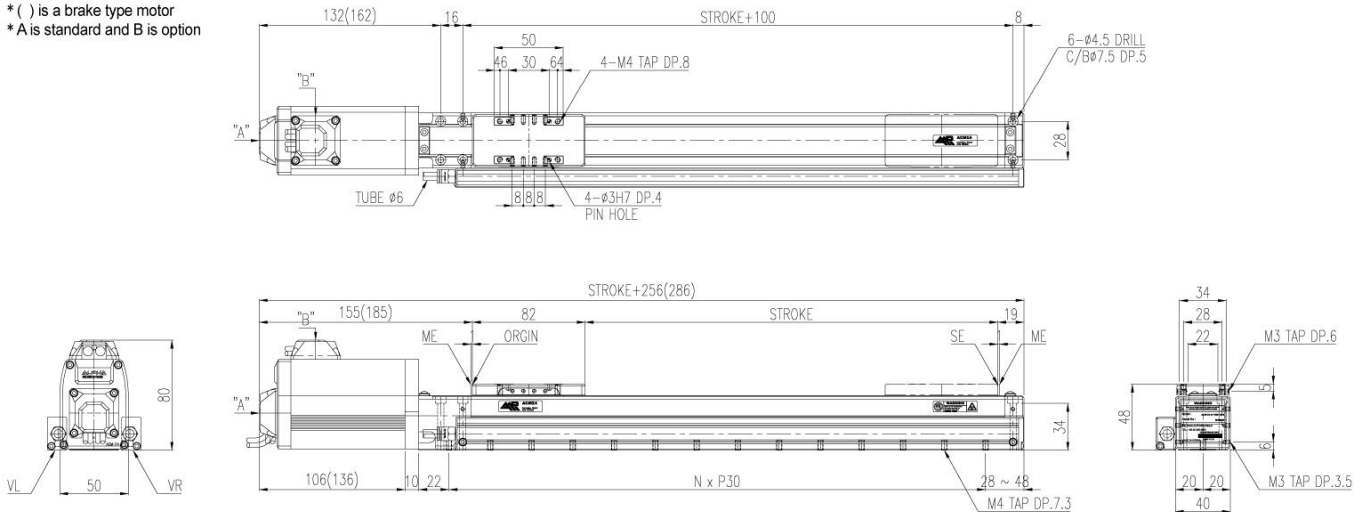
Model	ACM- Σ VN4 SS	ACM- Σ VN4 SL	ACM- Σ V4 SS	ACM- Σ V4 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

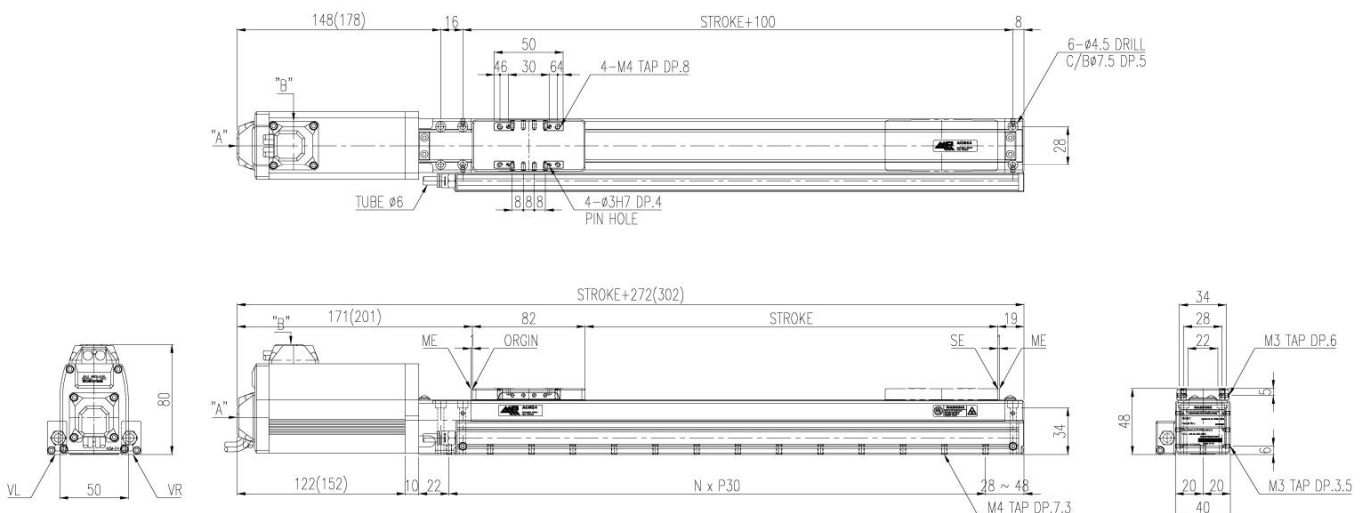
Specification		Unit	ACM-Σ4-SS-50W/100W-V		Specification		Unit	Data					
ACM-ΣV4-SS-50W			ACM-ΣV4-SS-100W		Acceleration		G	0.3					
					Load		kg	3	5	7	10		
Rated Output		W	50W,3000min ⁻¹	100W,3000min ⁻¹	Allowable Overhang Distance - mm	Horizontal Use		0°	85	45	35	20	
Max. Speed		Note1 mm/s	250 (500)					45°	105	60	40	25	
Max. Load		Note2 kg	H:10 (7) V:5 (3)	H:12 (12) V:7 (5)				90°	320	180	125	80	
Stroke Range		mm	50 ~ 400				Wall Installation Use		0°	260	130	70	20
Repeatability		mm	± 0.02						45°	60	38	18	0
Drive Type		-	BALL SCREW						90°	100	60	45	0
						Vertical Use		0°	65	40	28	20	
								45°	45	30	20	14	
					90°			65	40	28	20		
					Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)					
						Life in traveled distance : 15000 km							

ACM-ΣV4-SS-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-ΣV4-SS-100W



Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400		Offset(100)	⚠ CAUTION ※ 한글표면적 10.1 Page 2를 참조하시기 바랍니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME : Mechanical End -SE : Stroke End Standard stroke changes by 50mm distance
	ACM-ΣV4-SS		kg	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.7		0.1	
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400		Offset(100)	
	ACM-ΣV4-L		mm/s				250							⚠NOTICE In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣV4-N		mm/s				500							⚠NOTICE It is changed by operating conditions.
														⚠NOTICE In case of use of products beyond allowable overhang value, it may result in malfunction of products.

Model	ACM-ΣVN4 SS	ACM-ΣVN4 SL	ACM-ΣV4 SS	ACM-ΣV4 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max. Load indicates Vertical use.

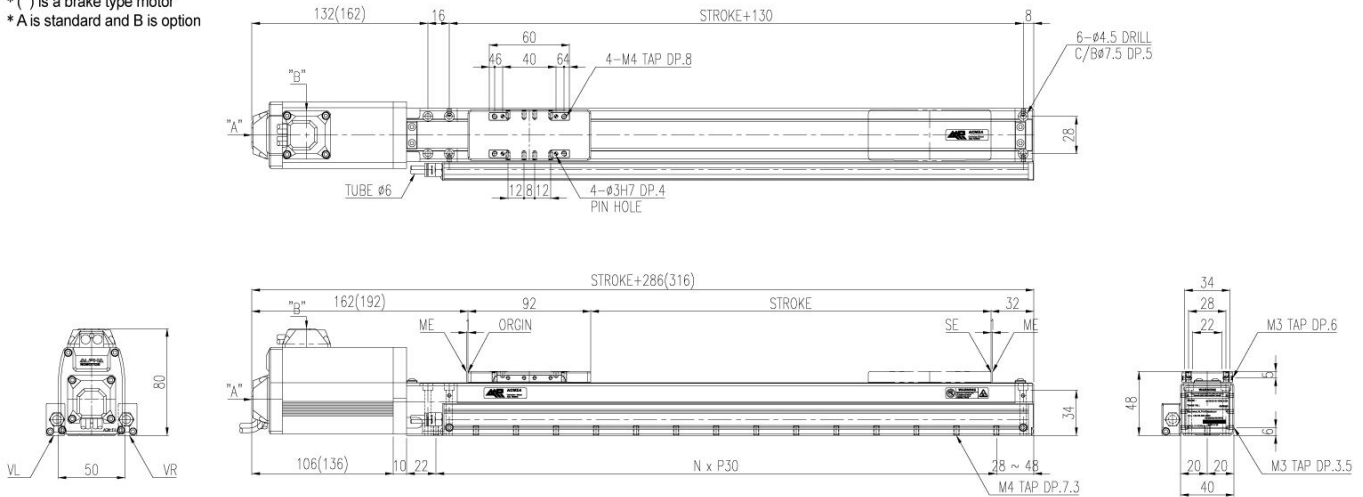
Specification	Unit	ACM-ΣV4-SL-50W/100W	ACM-ΣV4-SL-100W
ACM-ΣV4-SL-50W			
			
Rated Output	W	50W,3000min ⁻¹	100W,3000min ⁻¹
Max. Speed	Note1 mm/s	250 (500)	
Max. Load	Note2 kg	H:10 (7) V:5 (3)	H:12 (12) V:7 (5)
Stroke Range	mm	50 ~ 400	
Repeatability	mm	± 0.02	
Drive Type	-	BALL SCREW	

Specification	Unit	Data
Acceleration	G	0.3
Load	kg	2 6 10 14
Horizontal Use	0°	380 120 70 45
	45°	370 115 65 45
	90°	500 500 500 500
Wall Installation Use	0°	500 500 500 500
	45°	365 115 65 45
	90°	380 120 70 45
Vertical Use	0°	500 200 120 85
	45°	290 95 55 40
	90°	500 170 110 70
Estimated Condition	Max Speed : 500 mm/s	Acceleration : 0.3 G (2.94/s ²)
	Life in traveled distance : 15000 km	

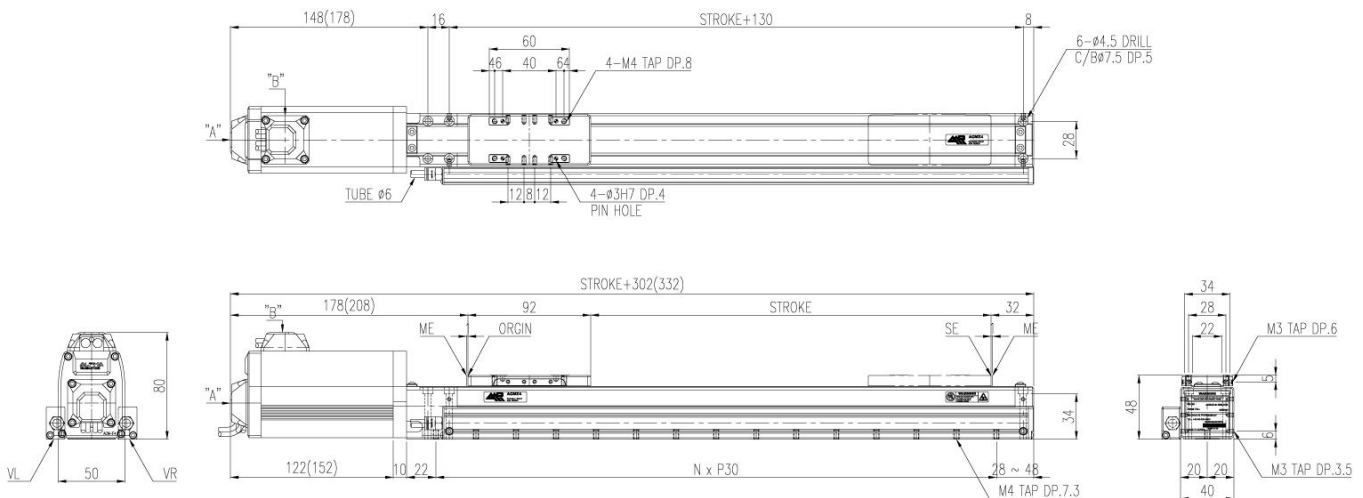
Note3 Allowable Overhang Distance - mm

ACM-ΣV4-SL-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-ΣV4-SL-100W



Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	Offset(100)	CAUTION
	ACM-ΣV4-SL	kg		1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5	0.1	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME: Mechanical End SE: Stroke End Standard stroke changes by 50mm distance

Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	Offset(100)	NOTE1
	ACM-ΣV4-L-V	mm/s						250					In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣV4-N-V	mm/s						500					NOTE2 It is changed by operating conditions.
													NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

Model	ACM-ΣVN5 SS	ACM-ΣVN5 SL	ACM-ΣV5 SS	ACM-ΣV5 SL				
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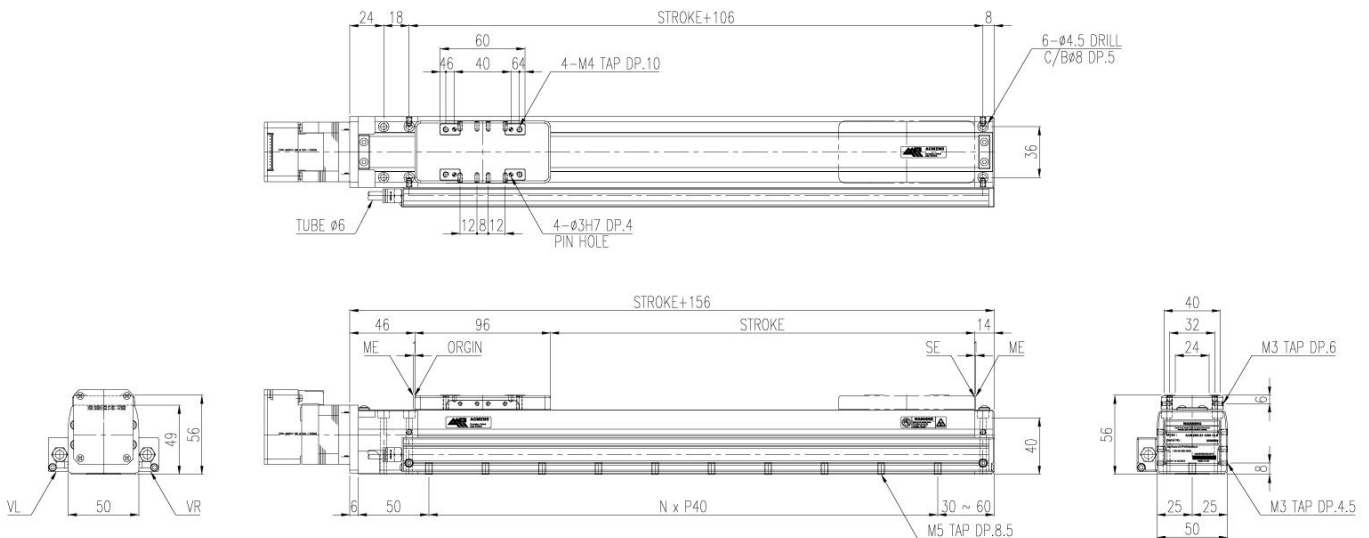
Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

Specification		Unit	ACM-ΣVN5-SS-50W/100W		ACM-ΣVN5-SS-50W/100W		ACM-ΣVN5-SS-100W	
ACM-ΣVN5-SS-50W			ACM-ΣVN5-SS-100W					
								
Rated Output		W	50W,3000min ⁻¹		100W,3000min ⁻¹			
Max. Speed	Note1	mm/s	250 (500)					
Max. Load	Note2	kg	H:18 (11) V:6 (4)		H:20 (20) V:10 (9)			
Stroke Range		mm	50 ~ 600					
Repeatability		mm	± 0.02					
Drive Type		-	BALL SCREW					

Specification		Unit	Data			
Acceleration		G	0.3			
Load		kg	4	10	15	20
Horizontal Use		0°	120	45	25	15
		45°	145	50	35	20
		90°	410	150	90	60
Wall Installation Use		0°	110	15	0	0
		45°	115	15	0	0
		90°	110	15	0	0
Vertical Use		0°	65	24	13	8
		45°	55	18	10	6
		90°	75	23	12	7
Estimated Condition		Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)		
		Life in traveled distance : 15000 km				

ACM-ΣVN5-SS-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR COOL MUSCLE	STEPPING MOTOR TAMAGAWA	STEPPING MOTOR SANMOTION	SERVO MOTOR MITSUBISHI/YASKAWA
Diagram of a Cool Muscle Stepping Motor showing a cross-section with a 6mm shaft diameter. The motor has a cylindrical body with a central shaft and a flange at the front. The internal stator and rotor components are visible.	Diagram of a Tamagawa Stepping Motor showing a cross-section with a 6mm shaft diameter. The motor has a cylindrical body with a central shaft and a flange at the front. The internal stator and rotor components are visible.	Diagram of a Sanmotion Stepping Motor showing a cross-section with a 10mm shaft diameter. The motor has a cylindrical body with a central shaft and a flange at the front. The internal stator and rotor components are visible.	Diagram of a Mitsubishi/Yaskawa Servo Motor showing a cross-section with a 10mm shaft diameter. The motor has a cylindrical body with a central shaft and a flange at the front. The internal stator and rotor components are visible.

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION ※ 한글본역은 C10.1 Page 중 참조하시기 바랍니다.
	ACM-ΣVN5-SS		kg	1.4	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.7	3.0	0.31	
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NO143 In case of the short stroke, it may not be reached at maximum speed. NO142 It is changed by operating conditions. NO143 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
	ACM-ΣVN5-L		mm/s					250							
	ACM-ΣVN5-N		mm/s					500							

ACM-Σ5 SERIES

Model	ACM-ΣVN5 SS	ACM-ΣVN5 SL	ACM-ΣV5 SS	ACM-ΣV5 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max. Load indicates Vertical use.

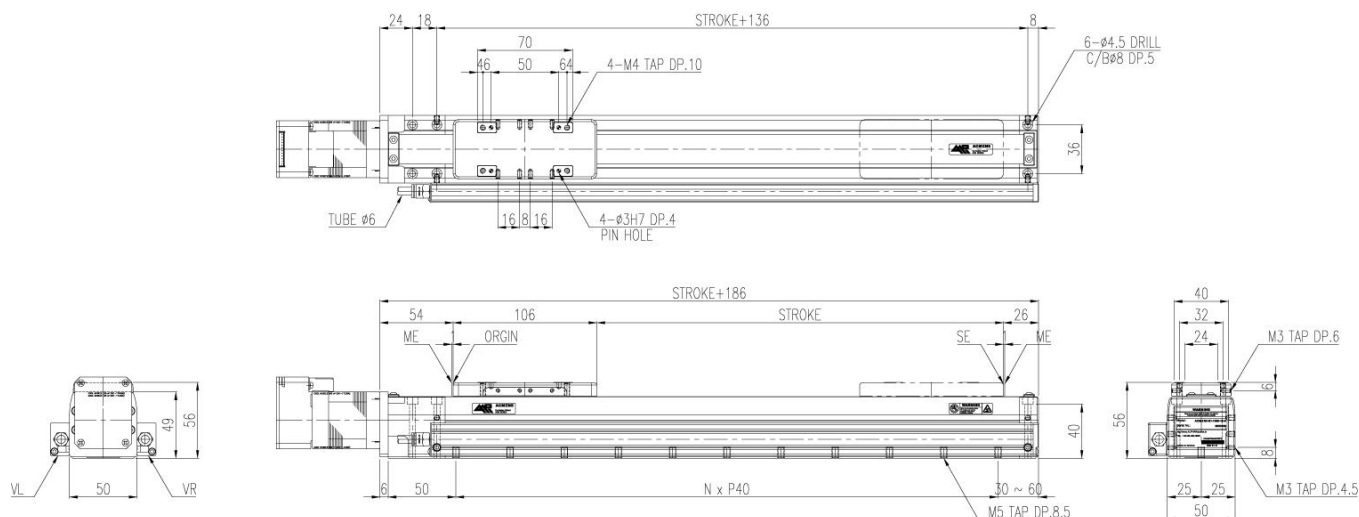
Specification		Unit	ACM-ΣVN5-SL-50W/100W	
ACM-ΣVN5-SL-50W			ACM-ΣVN5-SL-100W	
				
Rated Output	W		50W,3000min ⁻¹	100W,3000min ⁻¹
Max. Speed	Note1 mm/s		250 (500)	
Max. Load	Note2 kg		H:18 (11) V:6 (4)	H:20 (20) V:10 (9)
Stroke Range	mm		50 ~ 600	
Repeatability	mm		± 0.02	
Drive Type	-		BALL SCREW	

Specification		Unit	Data				
Acceleration		G	0.3				
Load		kg	5	10	15	20	
Horizontal Use		0°	330	160	100	70	
		45°	320	155	100	70	
		90°	600	600	600	600	
Wall Installation Use		0°	600	600	600	600	
		45°	320	155	100	70	
		90°	330	160	100	75	
Vertical Use		0°	430	215	145	105	
		45°	225	120	75	55	
		90°	425	210	140	105	
Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)				
	Life in traveled distance : 15000 km						

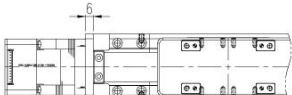
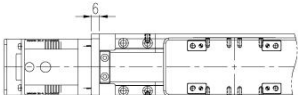
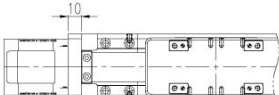
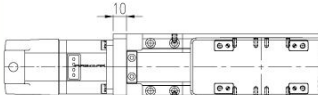
Notes:
① Values of () is in case of speed of 1000mm/sec.
② H or V of Max.Load indicates Horizontal use and Vertical use respectively.
③ Life in traveled distance : 15000km

ACM-ΣVN5-SL-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR COOL MUSCLE	STEPPING MOTOR TAMAGAWA	STEPPING MOTOR SANMOTION	SERVO MOTOR MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	 CAUTION ※ 한글 번역본 C10.1 Page 20에 참조하시기 바랍니다.
	ACM-ΣVN5-SL		kg	2.4	2.6	2.7	2.8	2.9	3.1	3.3	3.4	3.7	3.9	0.31	
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTED NOTED NOTED In case of the short stroke, it may not be reached at maximum speed. It is changed by operating conditions. In case of use of products beyond allowable overhang value, it may result in malfunction of products.
	ACM-ΣVN5-L		mm/s					250							
	ACM-ΣVN5-N		mm/s					500							

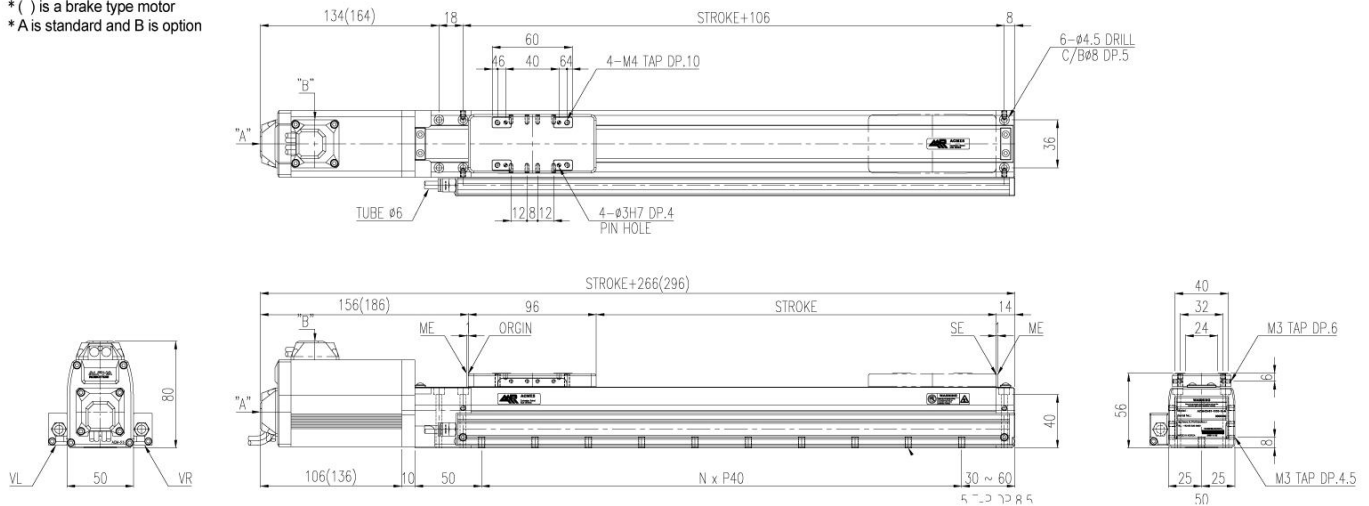
Model	ACM-ΣVN5 SS	ACM-ΣVN5 SL	ACM-ΣV5 SS	ACM-ΣV5 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

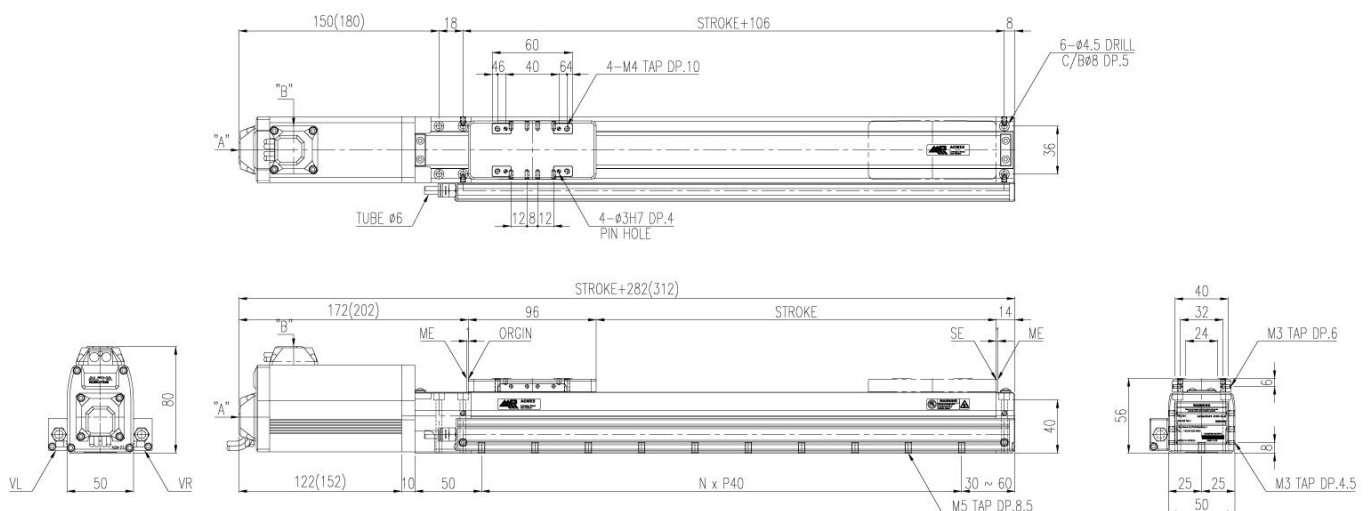
Specification	Unit	ACM-ΣV5-SS-50W/100W		Specification	Unit	Data			
ACM-ΣV5-SS-50W		ACM-ΣV5-SS-100W		Acceleration	G	0.3			
				Load	kg	4	10	15	20
Rated Output	W	50W,3000min ⁻¹	100W,3000min ⁻¹	Horizontal Use 	0°	120	45	25	15
Max. Speed	Note1 mm/s	250 (500)			45°	145	50	35	20
Max. Load	Note2 kg	H:18 (11) V:6 (4)	H:20 (20) V:10 (9)		90°	410	150	90	60
Stroke Range	mm	50 ~ 600		Wall Installation Use 	0°	110	15	0	0
Repeatability	mm	± 0.02			45°	115	15	0	0
Drive Type	-	BALL SCREW			90°	110	15	0	0
				Vertical Use 	0°	65	24	13	8
					45°	55	18	10	6
					90°	75	23	12	7
				Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)		
					Life in traveled distance : 15000 km				

ACM-ΣV5-SS-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-ΣV5-SS-100W



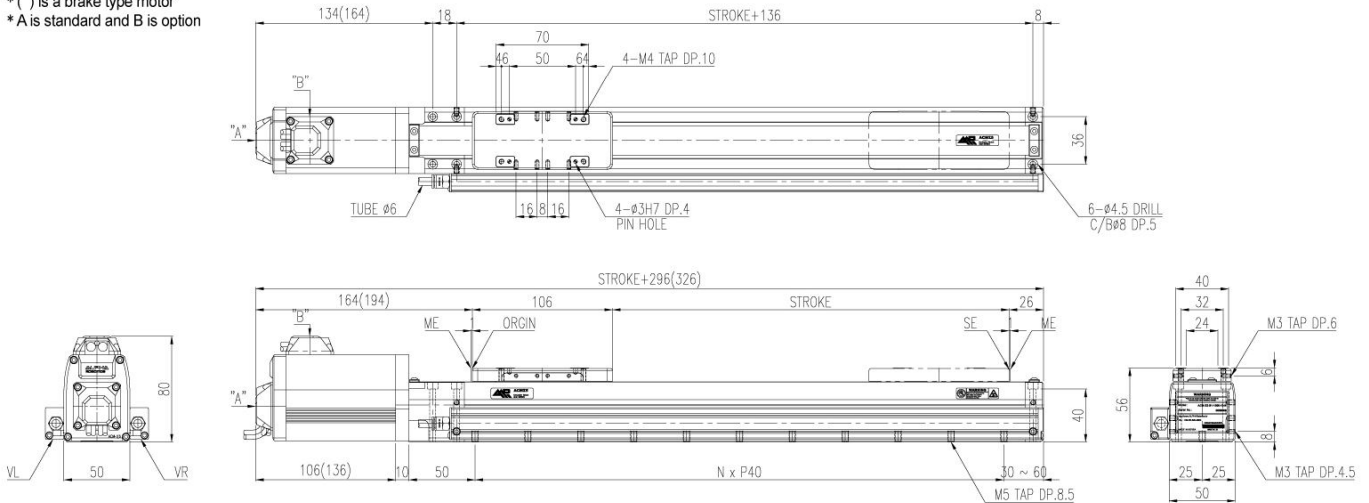
Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣV5-SS		kg	1.4	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.7	3.0	0.31	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance NOTE1 In case of the short stroke, it may not be reached at maximum speed. NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	
	ACM-ΣV5-L		mm/s					250							
	ACM-ΣV5-N		mm/s					500							

Model	ACM-ΣVN5 SS	ACM-ΣVN5 SL	ACM-ΣV5 SS	ACM-ΣV5 SL				
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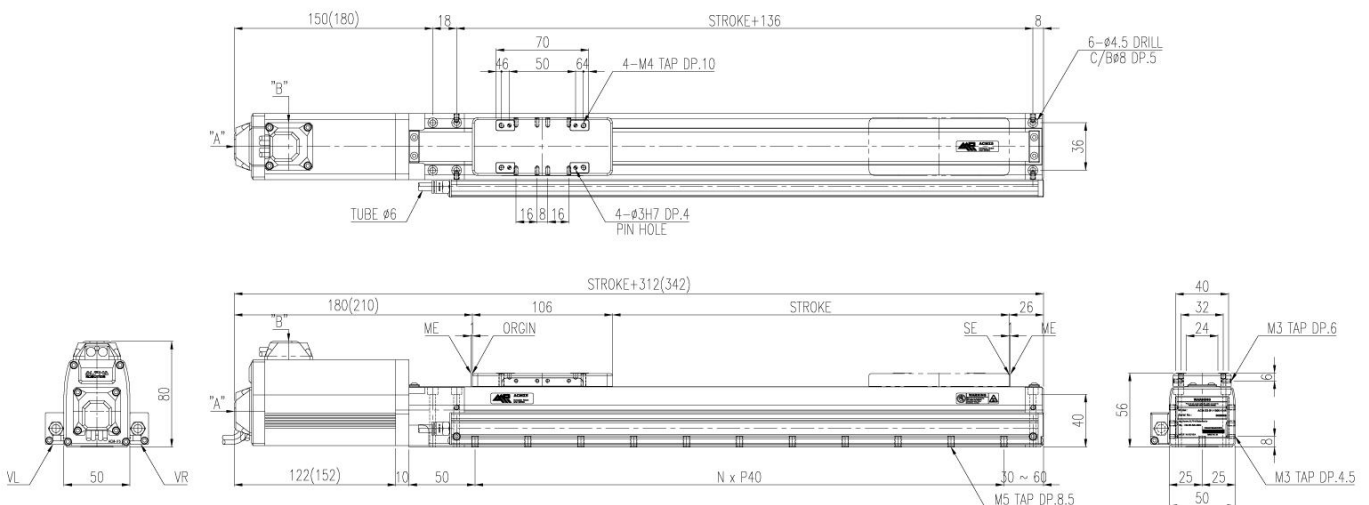
Specification		Unit	ACM-ΣV5-SL-50W/100W		ACM-ΣV5-SL-100W		Specification		Unit	Data											
ACM-ΣV5-SL-50W						ACM-ΣV5-SL-100W				Acceleration		G				0.3					
										Load		kg		5		10		15		20	
								Allowable Overhang Distance - mm		Horizontal Use 		0°		330		160		100		70	
												45°		320		155		100		70	
												90°		600		600		600		600	
										Wall Installation Use 		0°		600		600		600		600	
												45°		320		155		100		70	
												90°		330		160		100		75	
										Vertical Use 		0°		430		215		145		105	
												45°		225		120		75		55	
												90°		425		210		140		105	
Rated Output		W		50W,3000min ⁻¹		100W,3000min ⁻¹		Note3		Estimated Condition		Max Speed : 500 mm/s				Acceleration : 0.3 G (2.94/s ²)					
Max. Speed		Note1 mm/s		250 (500)						Life in traveled distance : 15000 km											
Max. Load		Note2 kg		H:18 (11) V:6 (4)		H:20 (20) V:10 (9)															
Stroke Range		mm		50 ~ 600																	
Repeatability		mm		± 0.02																	
Drive Type		-		BALL SCREW																	

ACM-ΣV5-SL-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-ΣV5-SL-100W



Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣV5-SL		kg	2.4	2.6	2.7	2.8	2.9	3.1	3.3	3.4	3.7	3.9	0.31	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance NOTE1 In case of the short stroke, it may not be reached at maximum speed. NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	
	ACM-ΣV5-L		mm/s	250											
	ACM-ΣV5-N		mm/s	500											

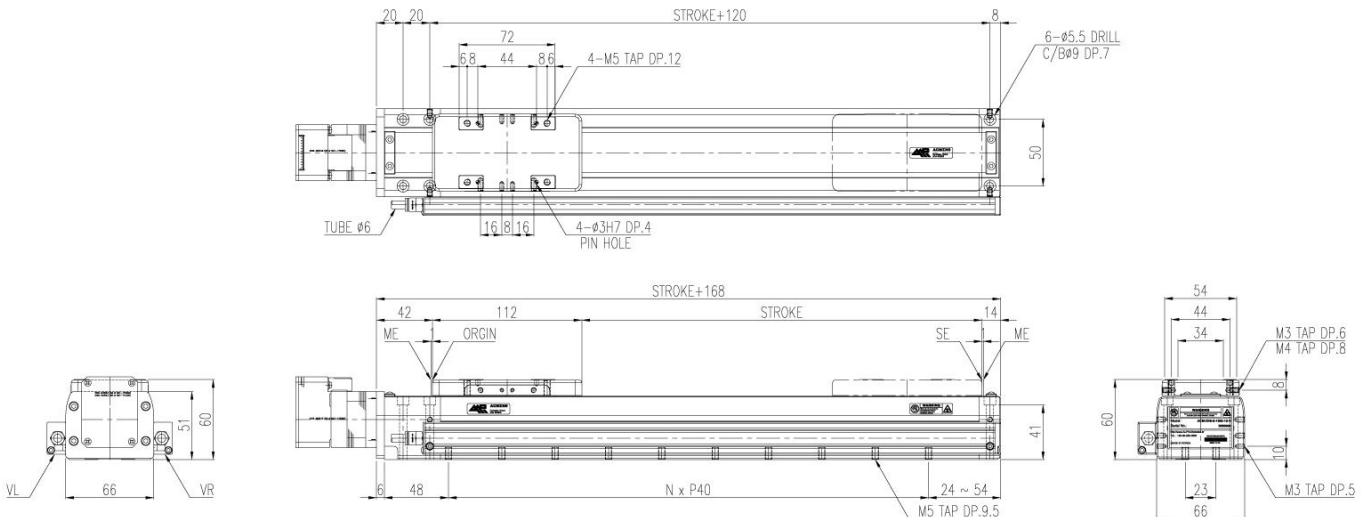
Model	ACM-ΣVN6 SS	ACM-ΣVN6 SL	ACM-ΣV6 SS	ACM-ΣV6 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max. Load indicates Vertical use.

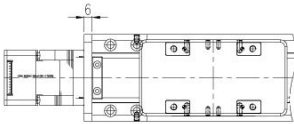
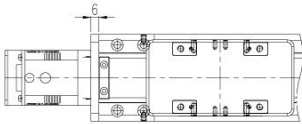
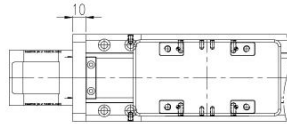
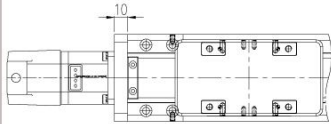
Specification	Unit	ACM-ΣVN6-SS-50W/100W	Specification	Unit	Data
ACM-ΣVN6-SS-50W		ACM-ΣVN6-SS-100W	Acceleration	G	0.3
			Load	kg	4 10 20 30
Rated Output	W	50W,3000min ⁻¹ 100W,3000min ⁻¹	Horizontal Use 	0°	350 125 60 40
Max. Speed	Note1 mm/s	250 (500)		45°	380 140 70 50
Max. Load	Note2 kg	H:30 (11) V:10 (4) H:30 (21) V:13 (9)		90°	900 320 140 80
Stroke Range	mm	50 ~ 600	Wall Installation Use 	0°	310 110 25 0
Repeatability	mm	± 0.02		45°	245 75 20 2
Drive Type	-	BALL SCREW		90°	310 105 25 2
			Vertical Use 	0°	155 52 17 6
				45°	115 35 13 3
				90°	160 55 16 4
			Estimated Condition	Max Speed : 500 mm/s Acceleration : 0.3 G (2.94/s ²)	
				Life in traveled distance : 15000 km	

ACM-ΣVN6-SS-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR	STEPPING MOTOR	STEPPING MOTOR	SERVO MOTOR
COOL MUSCLE	TAMAGAWA	SANMOTION	MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣVN6-SS	kg		2.3	2.5	2.7	2.9	3.1	3.4	3.6	3.8	4.2	4.6	0.45	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME : Mechanical End SE : Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-ΣVN6-L	mm/s						250							In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣVN6-N	mm/s						500							NOTE2 It is changed by operating conditions.
															NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

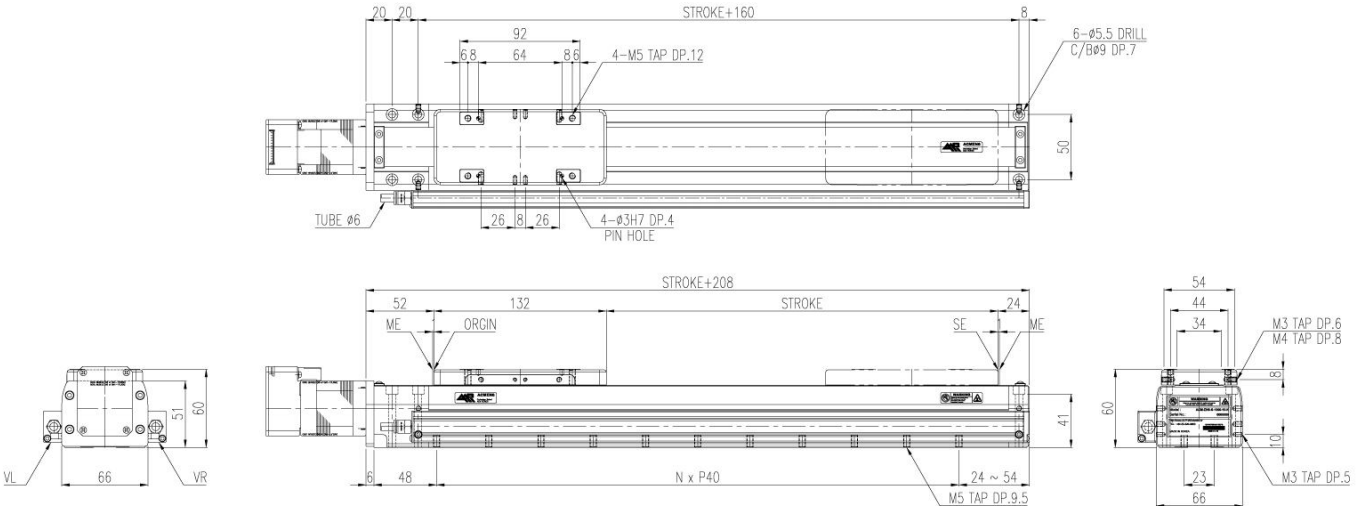
Model	ACM-ΣVN6 SS	ACM-ΣVN6 SL	ACM-ΣV6 SS	ACM-ΣV6 SL				
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Values of () is in case of speed of 1000mm/sec. / H of Max. Load indicates Horizontal use and V of Max.Load indicates Vertical use.

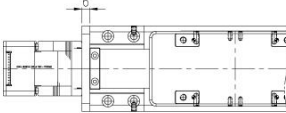
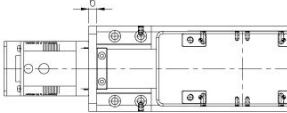
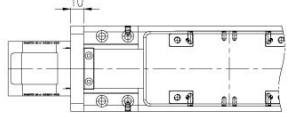
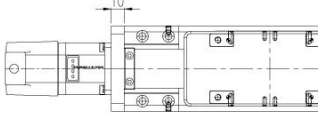
Specification		Unit	ACM-ΣVN6-SL-50W/100W		Specification		Unit	Data				
ACM-ΣVN6-SL-50W			ACM-ΣVN6-SL-100W		Acceleration		G	0.3				
					Load		kg	5	10	20	25	
Rated Output		W	50W,3000min ⁻¹ 100W,3000min ⁻¹		Note3 Allowable Overhang Distance - mm	Horizontal Use		0°	900	450	210	165
Max. Speed		Note1 mm/s	250 (500)					45°	850	420	205	160
Max. Load		Note2 kg	H:30 (11) V:10 (4) H:30 (21) V:13 (9)					90°	700	700	700	700
Stroke Range		mm	50 ~ 600			Wall Installation Use		0°	700	700	700	700
Repeatability		mm	± 0.02					45°	850	420	200	160
Drive Type		-	BALL SCREW					90°	900	450	210	165
					Vertical Use		0°	800	440	220	175	
							45°	450	220	120	90	
							90°	850	420	210	170	
					Estimated Condition	Max Speed : 500 mm/s			Acceleration : 0.3 G (2.94/s ²)			
						Life in traveled distance : 15000 km						

ACM-ΣVN6-SL-50W/100W

* All dimensions in mm



Please select one motor described below

STEPPING MOTOR	STEPPING MOTOR	STEPPING MOTOR	SERVO MOTOR
COOL MUSCLE	TAMAGAWA	SANMOTION	MITSUBISHI/YASKAWA
			

Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣVN6-SL	kg		3.3	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.3	5.7	0.45	※ 한글본역은 C10.1 Page를 참조하시기 바랍니다. Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. ME: Mechanical End SE: Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-ΣVN6-L	mm/s						250							In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣVN6-N	mm/s						500							NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

SPEC

ACM

ACR

ACT

ACC

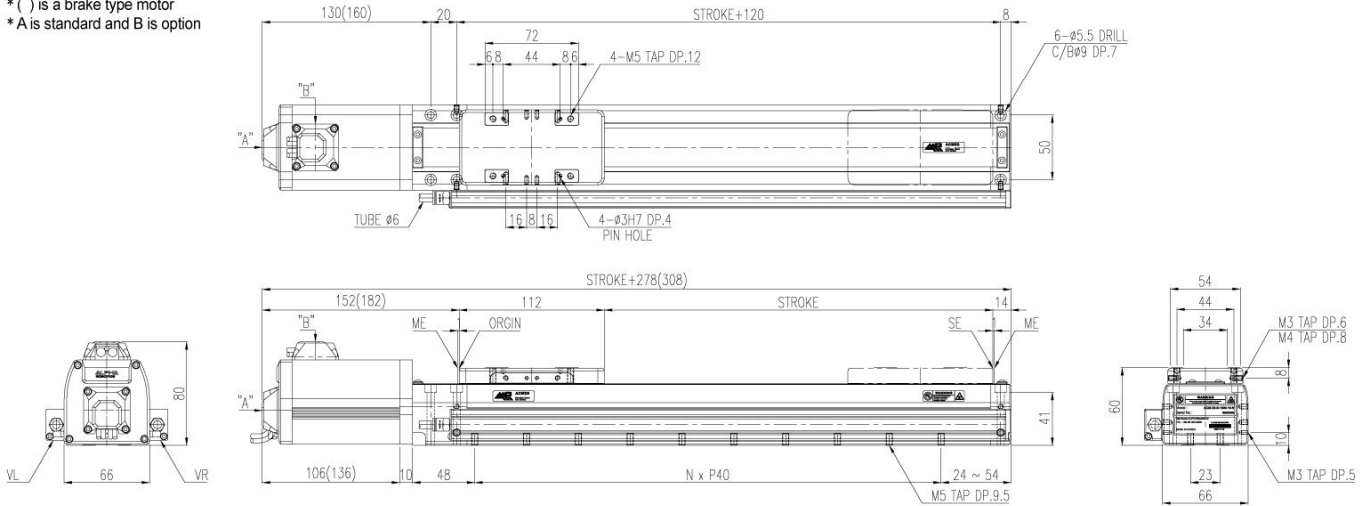
CMR

Model	ACM-ΣV6 SS	ACM-ΣV6 SL	ACM-ΣV6 SS	ACM-ΣV6 SL				
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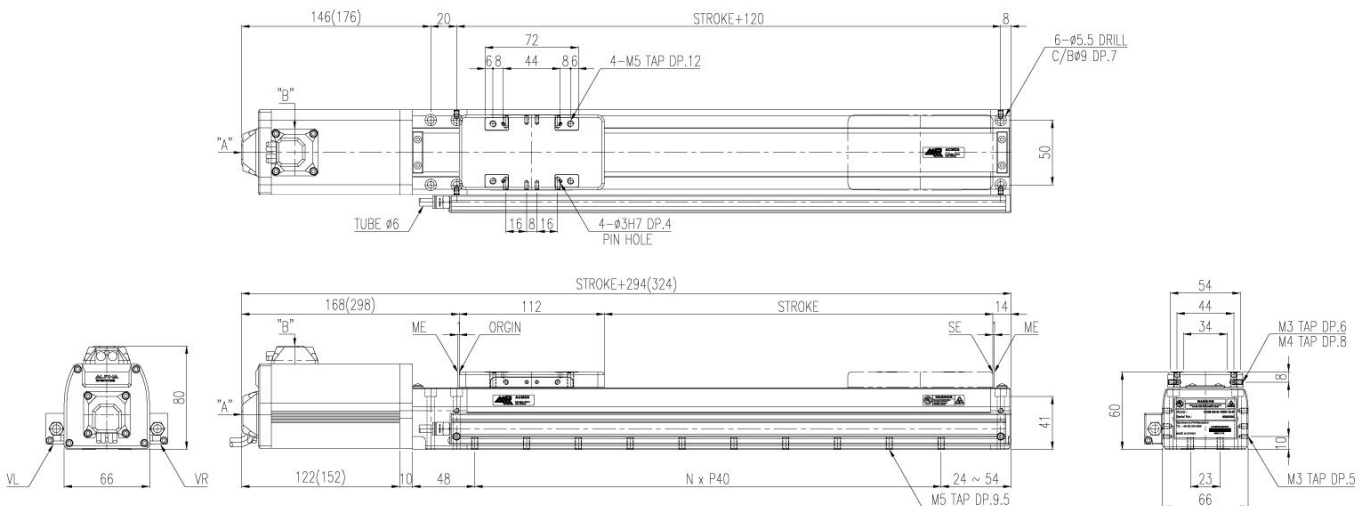
Specification		Unit	ACM-ΣV6-SS-50W/100W		ACM-ΣV6-SS-100W		Specification		Unit	Data				
ACM-ΣV6-SS-50W							Acceleration		G	0.3				
Rated Output		W	50W,3000min ⁻¹		100W,3000min ⁻¹		Load		kg	4	10	20	30	
Max. Speed		Note1	mm/s		250 (500)		Note3 Allowable Overhang Distance - mm	Horizontal Use		0°	350	125	60	40
Max. Load		Note2	kg		H:30 (11) V:10 (4) H:30 (21) V:13 (9)					45°	380	140	70	50
Stroke Range			mm		50 ~ 600					90°	900	320	140	80
Repeatability			mm		± 0.02			Wall Installation Use		0°	310	110	25	0
Drive Type		-			BALL SCREW					45°	245	75	20	2
										90°	310	105	25	2
								Vertical Use		0°	155	52	17	6
										45°	115	35	13	3
										90°	160	55	16	4
							Estimated Condition	Max Speed : 500 mm/s		Acceleration : 0.3 G (2.94/s ²)				
								Life in traveled distance : 15000 km						

ACM-ΣV6-SS-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-ΣV6-SS-100W



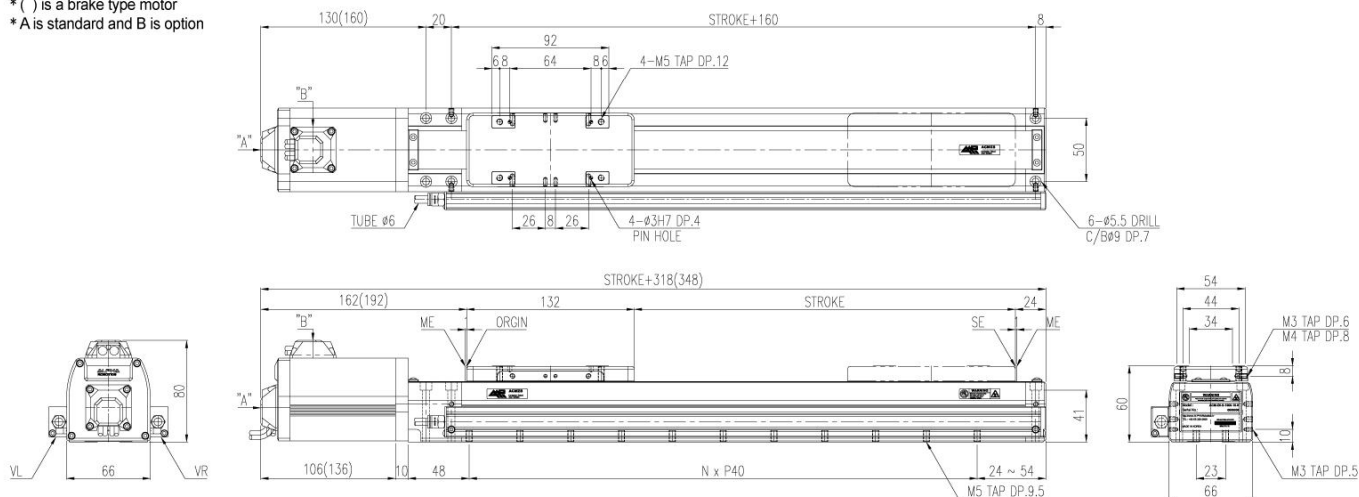
Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣV6-SS		kg	2.3	2.5	2.7	2.9	3.1	3.4	3.6	3.8	4.2	4.6	0.45	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	NOTE1
	ACM-ΣV6-L		mm/s												In case of the short stroke, it may not be reached at maximum speed.
	ACM-ΣV6-N		mm/s												NOTE2 It is changed by operating conditions.
															NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.

Model	ACM-ΣV6 SS	ACM-ΣV6 SL	ACM-ΣV6 SS	ACM-ΣV6 SL				
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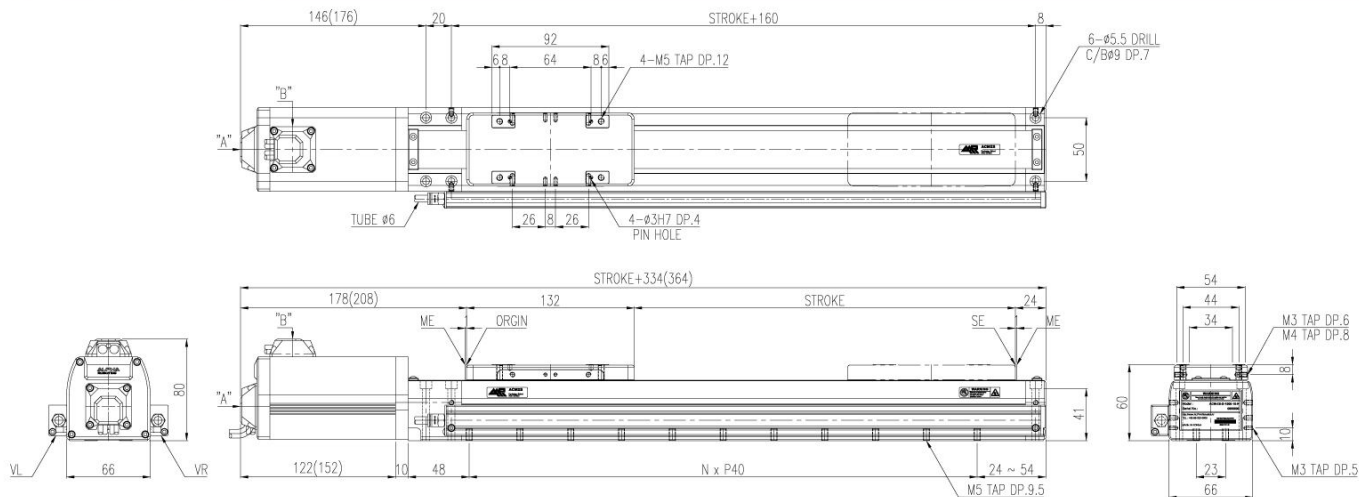
Specification	Unit	ACM-ΣV6-SL-50W/100W	Specification	Unit	Data
ACM-ΣV6-SL-50W		ACM-ΣV6-SL-100W	Acceleration	G	0.3
			Load	kg	5 10 20 25
Rated Output	W	50W,3000min ⁻¹ 100W,3000min ⁻¹	Note3 Allowable Overhang Distance - mm	Horizontal Use 	0° 900 450 210 165
Max. Speed ^{Note1}	mm/s	250 (500)			45° 850 420 205 160
Max. Load ^{Note2}	kg	H:30 (11) V:10 (4) H:30 (21) V:13 (9)			90° 700 700 700 700
Stroke Range	mm	50 ~ 600		Wall Installation Use 	0° 700 700 700 700
Repeatability	mm	± 0.02			45° 850 420 200 160
Drive Type	-	BALL SCREW			90° 900 450 210 165
			Vertical Use 	Estimated Condition	0° 800 440 220 175
					45° 450 220 120 90
					90° 850 420 210 170
					Max Speed : 500 mm/s Acceleration : 0.3 G (2.94/s ²)
					Life in traveled distance : 15000 km

ACM-ΣV6-SL-50W

- * All dimensions in mm
- * () is a brake type motor
- * A is standard and B is option



ACM-ΣV6-SL-100W



Weight	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	CAUTION
	ACM-ΣV6-SL		kg	3.3	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.3	5.7	0.45	Please be careful of surrounding interference when it is returning to origin because the slide moves to ME. -ME: Mechanical End -SE: Stroke End Standard stroke changes by 50mm distance NOTE1 In case of the short stroke, it may not be reached at maximum speed. NOTE2 It is changed by operating conditions. NOTE3 In case of use of products beyond allowable overhang value, it may result in malfunction of products.
Speed	Model	Stroke	Units	50	100	150	200	250	300	350	400	500	600	Offset(100)	
	ACM-ΣV6-L		mm/s					250							
	ACM-ΣV6-N		mm/s					500							