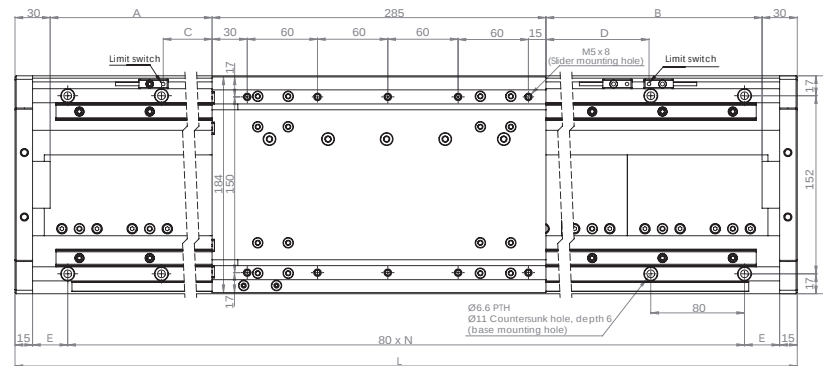
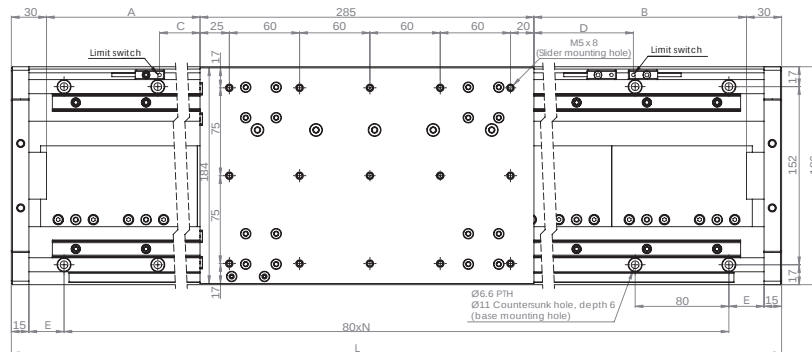


Mounting Dimensions CLMS-PBX8



Standard



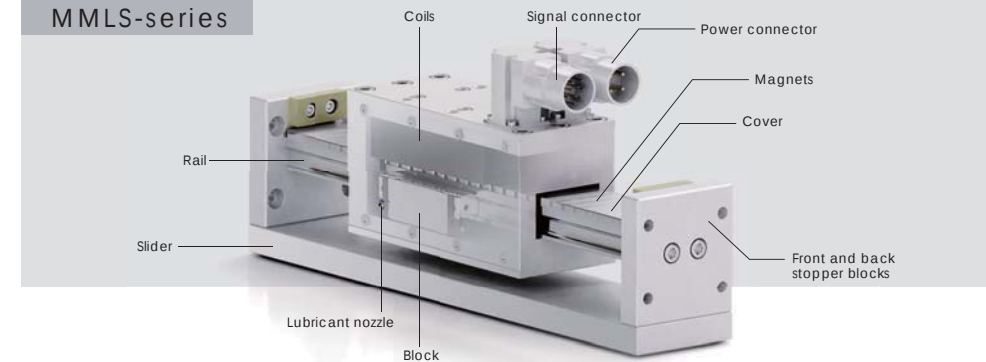
Open

Standard Specifications

Unit : mm

Total length (L)	530	650	770	890	1010	1130	1250	1370	1490	1610
Maximum effective travel (A+B)	185	305	425	545	665	785	905	1025	1145	1265
Standard travel (C+D)	120	240	360	480	600	720	840	960	1080	1200
Edge distance of base mounting hole (E)	10	30	10	30	10	30	10	30	10	30
N	6	7	9	10	12	13	15	16	18	19
Standard module weight (kg)	14.9	18.6	22.3	26	29.7	33.4	37.1	40.8	44.5	48.2
Open module weight (kg)	13.4	17.1	20.8	24.5	28.2	31.9	35.6	39.3	43	46.7

MMLS-series



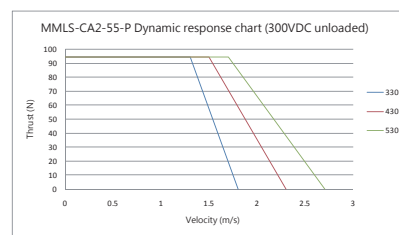
The most significant feature of the MMLS series is that the moving parts are composed of magnets and rails. With this design, there won't be the usual cable movement-induced issues from unwanted dust penetration to cable disconnection. As such, this series is particularly suitable for application in vacuum and clean room conditions. Moreover, as the coils for this product are fixed, heat is more easily dissipated to its mounting structure, thus making this series suitable for short travel and high rate cycle transfer applications.



Module Parameters

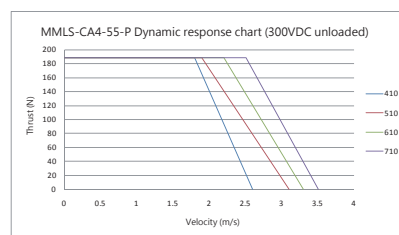
MMLS-CA2-55

MMLS	CA2-55	
	P	D
Module Parameters		
Continuous force (N)	94.2	
Peak force (N)	242.1	
Continuous current (Apeak)	3.5	7
Peak current (Apeak)	15	28
Force constant (N/Apeak)	26.9	13.5
Back EMF constant (VL-L/m/s)	33.7	16.9
Resistance (Ohms)	5.4	14
Inductance (mH)	25	6.25
Magnetic pole pitch (mm)	20	



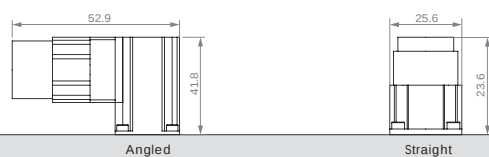
MMLS-CA4-55

MMLS	CA4-55	
	P	D
Module Parameters		
Continuous force (N)	188.3	
Peak force (N)	484.2	
Continuous current (Apeak)	7	14
Peak current (Apeak)	30	60
Force constant (N/Apeak)	26.9	13.5
Back EMF constant (VL-L/m/s)	33.7	16.9
Resistance (Ohms)	2.7	0.7
Inductance (mH)	12.5	3.13
Magnetic pole pitch (mm)	20	

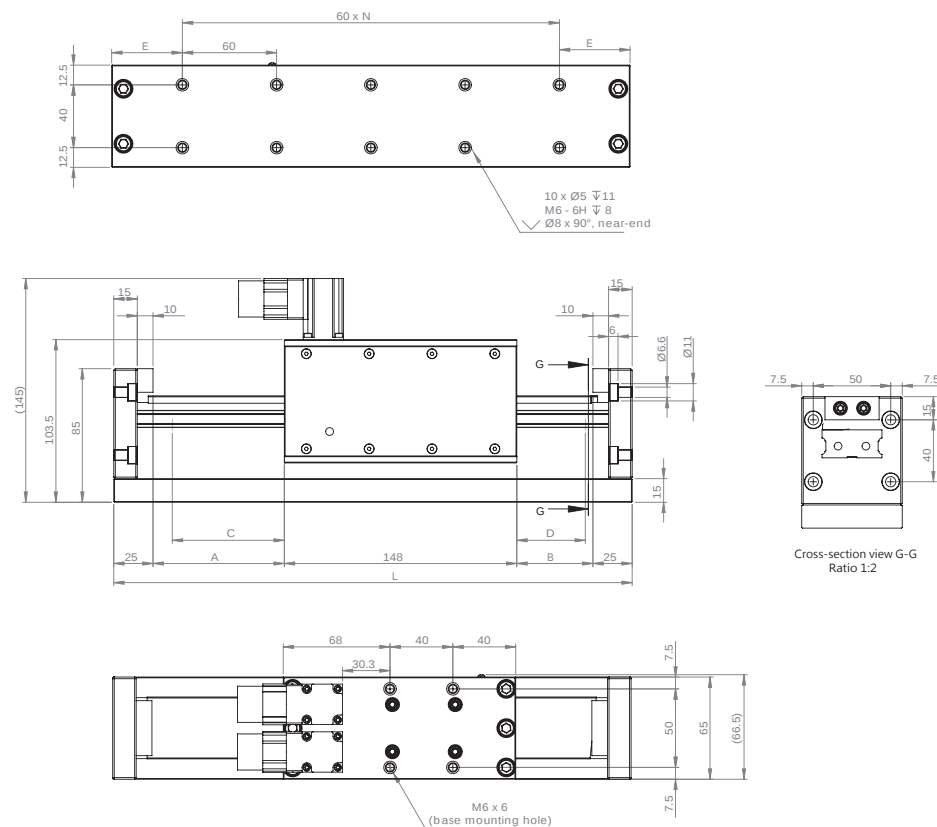


Accessory Options

Cable connector



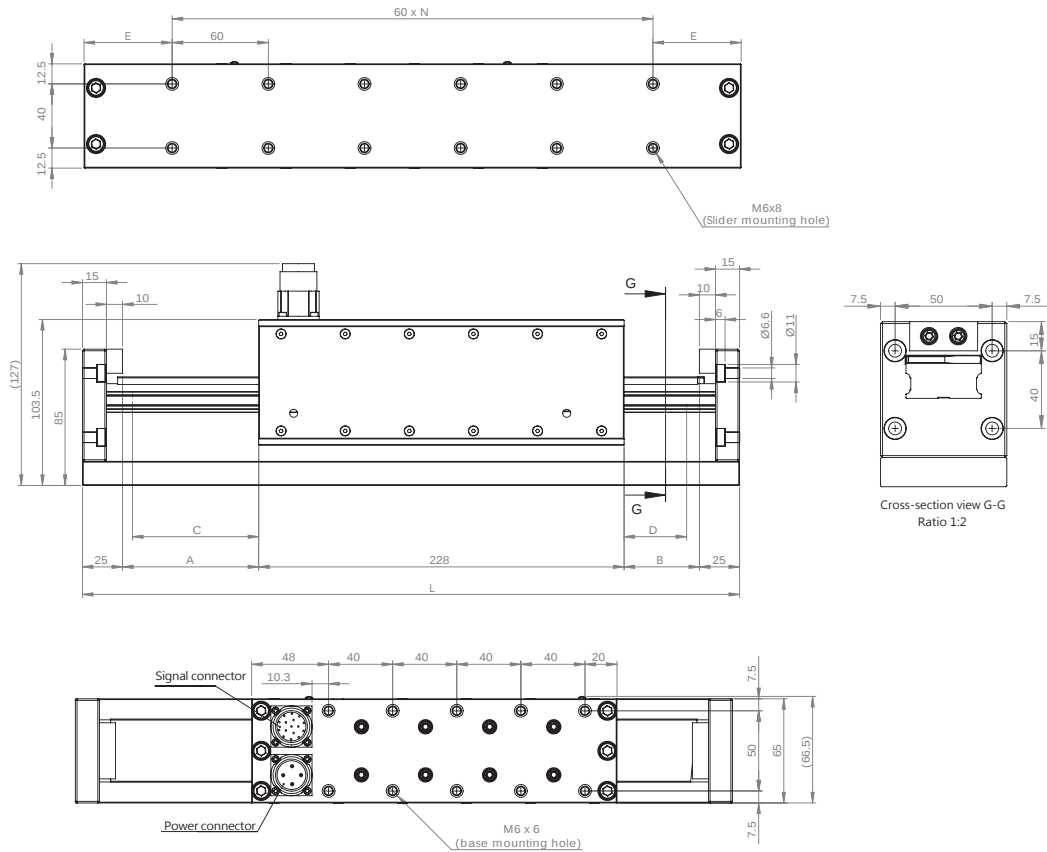
Mounting Dimensions MMLS-CA2-55



Standard Specifications

	Unit : mm	
Total length (L)	330	430
Maximum effective travel (A+B)	132	232
Standard travel (C+D)	100	200
Rail length	300	400
Slider mounting hole edge pitch(E)	45	35
N	4	6
Slider mass(kg)	3	3.9
Module weight(kg)	5.1	5.9

Mounting Dimensions MMLS-CA4-55



cpc is capable of supplying a total solution linear guide, driver, magnetic encoder and linear motor stage system. Years of experience allows us to overcome most challenges and achieve high degrees of customer satisfaction. More importantly, our technology gives us great advantages in quality and competitiveness, making us the market leader in the industry.



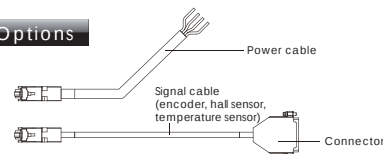
Standard Specifications

	Unit : mm			
Total length (L)	410	510	610	710
Maximum effective travel (A+B)	132	232	332	432
Standard travel (C+D)	100	200	300	400
Rail length	380	480	580	680
Slider mounting hole edge pitch(E)	55	45	35	25
N	5	7	9	11
Slider mass(kg)	3.7	4.6	5.4	6.3
Module weight(kg)	6.7	8	8.9	9.8

Ordering Information

CLMS	1250	CB	4	80	CR	M	A	I	N	C	N	-
												J : Customized
												N/A : N Direct interface cable length: 1,2,3,4,5,6,7,8,9(m)
												Cable Interface : Direct: D Joint: C Transfer board: T
												Connector type: N/A : N V:Angled S: Straight
												Number of Sliders : I,II,III
												Resolution : A:1μm B:0.5μm C:0.2μm D:0.1μm
												Encoder : O: Optical encoder M: Magnetic encoder
												Dustproof : N : N/A S: Standard Type CR: Dust Seal O: Open
												Motor Width : CLS N/A CLMS CA : 55,75,115 CB : 80,120 CC : 84,124 PM,PAX,PBX : - MMLS CA : 55
												Number of coil assembly : CLS : PM : 4,6 PAX : 2,4 PBX : 2,4,6 CLMS : 2,4,6,8 MMLS : 2,4
												Motor Model CLS : PM,PAX,PBX CLMS : Ironcore CA,CB,CC Ironless PM,PAX,PBX MMLS : CA
												Total Length : CLS PM4(6) : 152,332,512mm PBX2(4) : 230,530,830,1010,1250,1490mm PAX2(4) : 220,340,520,820,1000,1480mm P B X 6 : 530,830,1010,1250,1490mm
												CLMS CA2-55(115) : 400,520,640,760,880,1000,1120,1240,1360,1480mm CA6-75(115) : 520,640,760,880,1000,1120,1240,1360,1480,1600mm CB4-80(120) : 530,650,770,890,1010,1130,1250,1370,1490,1610mm CC4-84(124) : 620,734,848,962,1076,1190,1304,1418,1532,1646mm PM4(6) : 350,530,650mm PAX2(4) : 350,530,650,770,890,1010,1130,1250,1370,1490mm P B X 4 : 350,530,650,770,890,1010,1130,1250,1370,1490mm PBX6(8) : 530,650,770,890,1010,1130,1250,1370,1490,1610mm
												MMLS CA2-55 : 330,430mm CA4-55 : 410,510,610,710mm
												Stage Series : CLS - Single Rail Compact stage CLMS - Double Rail Compact Stage MMLS - Moving Magnet Stage

Accessory Options



CLMS	C	H-CB	5	C
Connector Head Type: N: N/A C: cpc driver head J: Customized				
Connector and transfer board cable length:1,2,3,4,5,6,7,8,9m				
Cable Chain Type : V-CA Standard cable chain V-CB Standard cable chain H-CA Side cable chain H-CB Side cable chain CN-PAX/PBX connector CN J: Customized				
Cable Type : PM: PM Power Cable PAX: PAX Power Cable PBX: PBX Power Cable S: Signal Cable C: Ironcore Power Cable				
Stage Series : CLS - Single rail compact stage CLMS - Double rail compact stage MMLS - Moving magnet stage				

V-Standard cable chain		H-Side cable chain		CN connector	
CA	A=76, B=117	A=119, B=75	Dimension within cable chain (Cx D)		
CB	A=109, B=128	A=119, B=82	CA,CB Standard	54x66	
J	Customized		CA,CB Dust Seal	54x55	
			CN-PAX,(PBX) connector	35x32(44x33)	
			J	Customized	

Sizing Form

Customer Name /	Filling Date (DD/MM/YEAR) /
Contact Person /	Telephone /
E-mail /	Fax /

1. Point-to-Point motion without constant velocity

Property: Specific travel distance in specific time
Application: Pick and place, carriage etc.

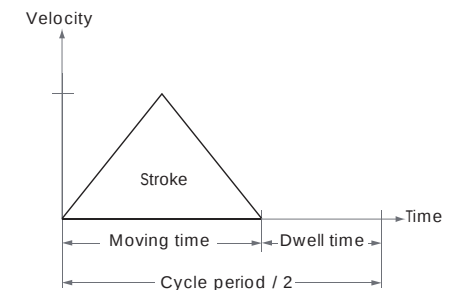
a. Known Motion Condition	
(1) Load mass	kg
(2) Effective stroke	m
(3) Moving time	s
(4) Dwell time	s

b. Driver Condition	
(1) Max. output voltage	V
(2) Continuous current	A
(3) Peak current	A

c. Encoder	
(1) ☐ Analog ☐ Digital	
(2) Resolution	μm

d. Working Environment	
(1) ☐ Room temperature	
(2) ☐ Constant temperature ____ °C	
(3) ☐ Vacuum ____ Torr	
(4) ☐ Clean room ____ level	

e. Motion Precision	
(1) Positioning accuracy	μm
(2) Repetitive accuracy	μm



f. Motion Direction	
(1) ☐ Horizontal	
(2) ☐ Vertical	
(3) ☐ Tilt ____ degrees	

g. Installation Method	
(1) ☐ Lying flat	
(2) ☐ Vertically standing	
(3) ☐ Wall mount	

h. Space Restrictions	
(1) ☐ None	
(2) ☐ Yes ____ mm x ____ mm x ____ mm	

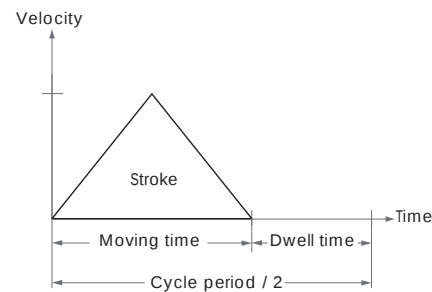
Sizing Form

Customer Name /	Filling Date (DD/MM/YEAR) /
Contact Person /	Telephone /
E-mail /	Fax /

2. Point-to-Point Motion without constant velocity section

Feature: Specific travel distance in specific time
Application: Pick and place, carriage etc.

a. Known Motion Condition	
(1) Load mass	kg
(2) Effective stroke	m
(3) Frequency	Hz
(4) Dwell time	s



b. Driver Condition	
(1) Max. output voltage	V
(2) Continuous current	A
(3) Peak current	A

c. Encoder	
(1) ☐ Analog ☐ Digital	
(2) Resolution	μm

d. Working Environment	
(1) ☐ Room temperature	
(2) ☐ Constant temperature _____ °C	
(3) ☐ Vacuum _____ Torr	
(4) ☐ Clean room _____ level	

e. Motion Precision	
(1) Positioning accuracy	μm
(2) Repetitive accuracy	μm

f. Motion Direction	
(1) ☐ Horizontal	
(2) ☐ Vertical	
(3) ☐ Tilt _____ degrees	

g. Installation Method	
(1) ☐ Lying flat	
(2) ☐ Vertically standing	
(3) ☐ Wall mount	

h. Space Restrictions	
(1) ☐ None	
(2) ☐ Yes _____ mm x _____ mm x _____ mm	

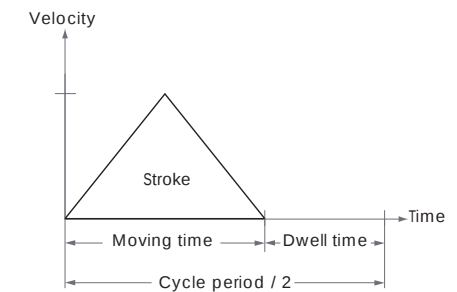
Sizing Form

Customer Name /	Filling Date (DD/MM/YEAR) /
Contact Person /	Telephone /
E-mail /	Fax /

3. Point-to-Point Motion without constant velocity

Feature: Specific travel distance in specific time
Application: Pick and place, carriage etc.

a. Known Motion Condition	
(1) Load mass	kg
(2) Effective stroke	m
(3) Acceleration	m/s^2
(4) Dwell time	s



b. Driver Condition	
(1) Max. output voltage	V
(2) Continuous current	A
(3) Peak current	A

c. Encoder	
(1) ☐ Analog ☐ Digital	
(2) Resolution	μm

d. Working Environment	
(1) ☐ Room temperature	
(2) ☐ Constant temperature _____ °C	
(3) ☐ Vacuum _____ Torr	
(4) ☐ Clean room _____ level	

e. Motion Precision	
(1) Positioning accuracy	μm
(2) Repetitive accuracy	μm

f. Motion Direction	
(1) ☐ Horizontal	
(2) ☐ Vertical	
(3) ☐ Tilt _____ degrees	

g. Installation Method	
(1) ☐ Lying flat	
(2) ☐ Vertically standing	
(3) ☐ Wall mount	

h. Space Restrictions	
(1) ☐ None	
(2) ☐ Yes _____ mm x _____ mm x _____ mm	

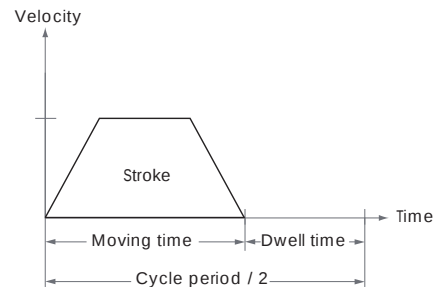
Sizing Form

Customer Name /	Filling Date (DD/MM/YEAR) /
Contact Person /	Telephone /
E-mail /	Fax /

4. Point-to-Point Motion with constant velocity

Feature: Work performed under constant velocity
Application: Scanning, inspection, cutting etc.

a. Motion Condition	
(1) Load mass	kg
(2) Effective stroke	m
(3) Moving time	s
(4) Dwell time	s
(5) Acceleration	m/s ²



b. Driver Condition	
(1) Max. output voltage	V
(2) Continuous current	A
(3) Peak current	A

c. Encoder	
(1) ☐ Analog ☐ Digital	
(2) Resolution	μm

d. Working Environment	
(1) ☐ Room temperature	
(2) ☐ Constant temperature ____ °C	
(3) ☐ Vacuum ____ Torr	
(4) ☐ Clean Room ____ level	

e. Motion Precision	
(1) Positioning accuracy	μm
(2) Repetitive accuracy	μm

f. Motion Direction	
(1) ☐ Horizontal	
(2) ☐ Vertical	
(3) ☐ Tilt ____ degrees	

g. Installation Method	
(1) ☐ Lying flat	
(2) ☐ Vertically standing	
(3) ☐ Wall mount	

h. Space Restrictions	
(1) ☐ None	
(2) ☐ Yes ____ mm x ____ mm x ____ mm	

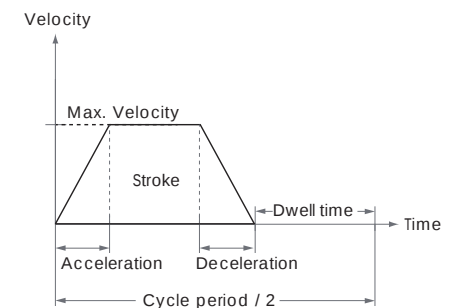
Sizing Form

Customer Name /	Filling Date (DD/MM/YEAR) /
Contact Person /	Telephone /
E-mail /	Fax /

5. Point-to-Point Motion with constant velocity section

Feature: Work performed under constant velocity
Application: Scanning, inspection, cutting etc.

a. Motion Condition	
(1) Load mass	kg
(2) Effective stroke	m
(3) Max. velocity	m/s
(4) Acceleration time	s
(5) Dwell time	s



b. Driver Condition	
(1) Max. output voltage	V
(2) Continuous current	A
(3) Peak current	A

c. Encoder	
(1) ☐ Analog ☐ Digital	
(2) Resolution	μm

d. Working Environment	
(1) ☐ Room temperature	
(2) ☐ Constant temperature ____ °C	
(3) ☐ Vacuum ____ Torr	
(4) ☐ Clean room ____ level	

e. Motion Precision	
(1) Positioning accuracy	μm
(2) Repetitive accuracy	μm

f. Motion Direction	
(1) ☐ Horizontal	
(2) ☐ Vertical	
(3) ☐ Tilt ____ degrees	

g. Installation Method	
(1) ☐ Lying flat	
(2) ☐ Vertically standing	
(3) ☐ Wall mount	

h. Space Restrictions	
(1) ☐ None	
(2) ☐ Yes ____ mm x ____ mm x ____ mm	