

SATA

無鐵芯U型直線電機

Ironless U-shaped linear motor Series



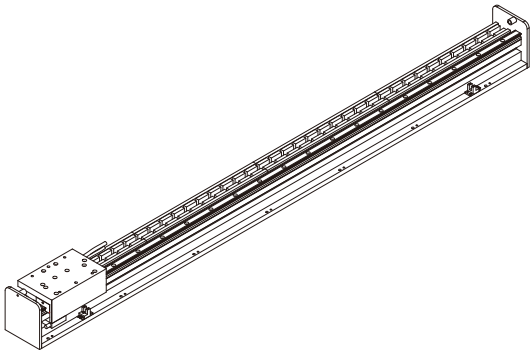
UM5 - S174 - OR - 10 - 05 - LM300 - S

型號 Model	行程 Stroke	編碼器 Encoder	解析度 Resolution	線長 Wire length	馬達規格 Motor specifications	驅動器 Driver
		OR 光學尺 MR 磁性尺	01: 0.1um 05: 0.5um 10: 1um	03 - 3m 05 - 5m 08 - 8m <small>*標配3m *standard: 3m</small>		C 科普利 - Copley D 台達 - Delta K 科爾摩根 - Kollmorgen P 松下 - Panasonic S 高創 - Servotronics

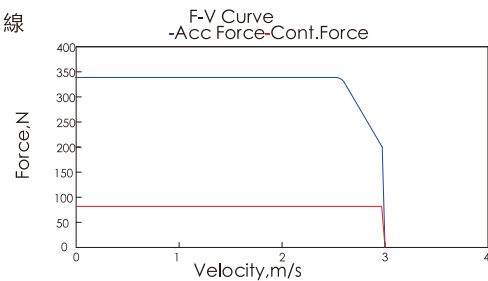
UM5-LM300 規格表 (UM5-LM300 Specification):

馬達規格 Motor specifications	LM300-X2
峯值電流 Peak current (A)	10A
電機額定推力 Motor rated (N)	70N
持續電流 Continuous current (A)	2.3A
重複定位精度 Repeatability (mm)	± 0.003mm
最高速度 Maximum speed	3000mm/s (在其他要求滿足要求情況下)
電機峰值推力 Peak thrust (N)	308N
推力常數 Thrust constant	30.8N/Arms
反向電常數 Inverse electrical constant	25(Ke=Kf/3)
相間電阻 Phase resistance	7.2ohms
相間電感 Phase-to-phase inductance	4.3mH
熱阻 thermal resistance	3.4°C/w
線圈最高溫度 Maximum coil temperature	120°C
極距 polar distance	60mm

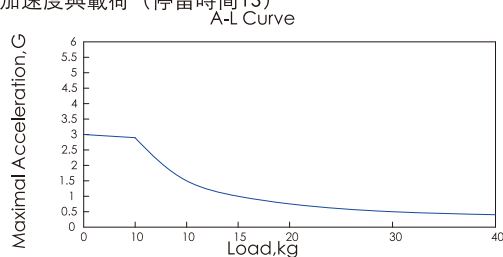
註:直線電機選型需要根據模組運行時具體參數進行選擇, 爲了更好的適用您的方案, 請務必與我司工程進行確認選型。
 Note: the selection of linear motor shall be based on the specific parameters of the module operation. In order to better apply your scheme, please be sure to confirm the selection with our
 如: (負載, 停頓時間, (加速度, 速度, 行程運行時間, 任意一種), 安裝方式, 配光柵還是磁柵 (精度) 若有其他要求請註明 Such as: (load, pause time, (acceleration, speed, travel time, any kind), installation method, with grating or magnetic grid (accuracy), if there are other requirements, please specify
 負載計算公式: $m_{load} = (F_{max} - \mu m_{total}) / \alpha - m_{lip}$ 僅做參考 m_{load} -負載, F_{max} -最大推力, μ -摩擦係數, m_{total} -總質量, α -加速度, m_{lip} -滑座質量
 Load formula: $m_{load} = (F_{max} - \mu m_{total}) / \alpha - m_{lip}$ Just for reference
 m_{load} -load, F_{max} -Peak thrust, μ -Coefficient of friction, m_{total} -Total mass, α -Acceleration, m_{lip} -Sliding mass



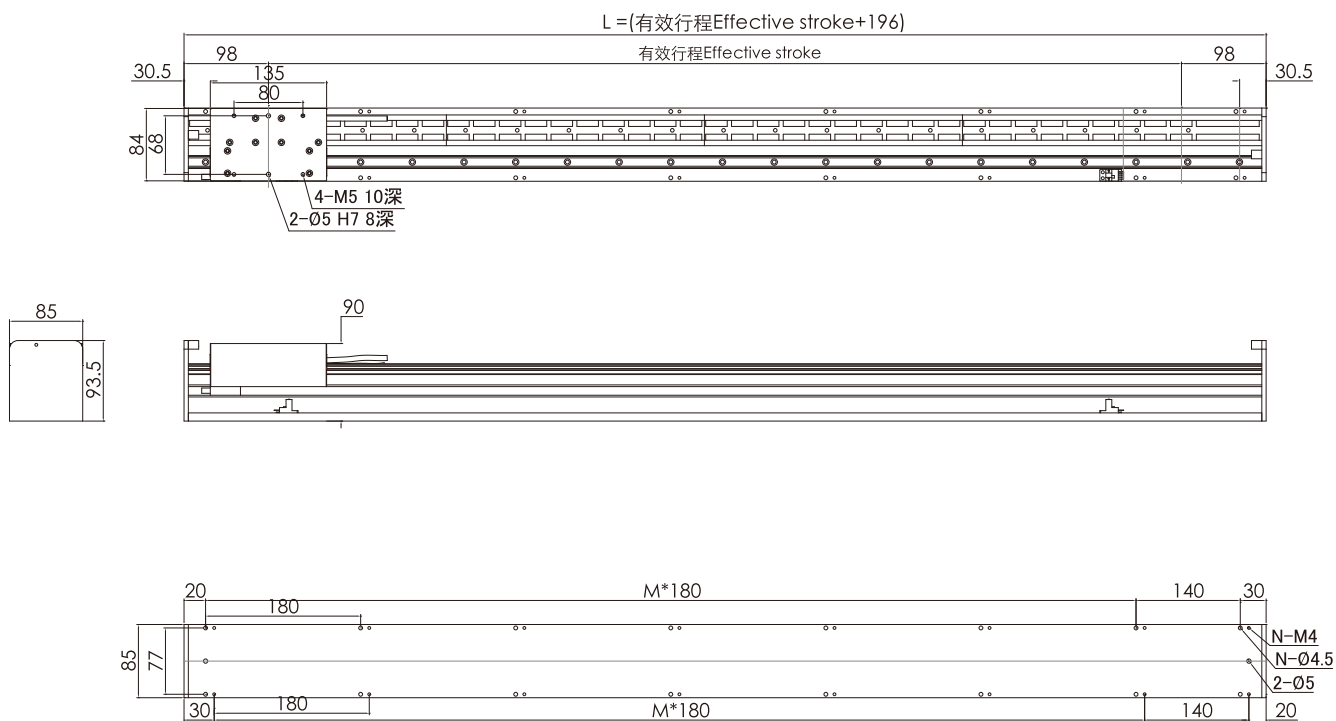
F-V曲線



最大加速度與載荷 (停留時間1S)



UM5-LM300



此款型號可客製成無塵環境式及全罩式規格,有需要請跟SATA聯繫
This model can be customized into clean room type and full cover type specification. Please contact with SATA if necessary

有效行程	174	354	534	714	894	1074	1254	1434	1614
L	370	550	730	910	1090	1270	1450	1630	1810
M	1	2	3	4	5	6	7	8	9
N	8	10	12	14	16	18	20	22	24
重量 (kg)	4.3	6.6	8.9	11.2	13.5	15.8	18.1	20.4	22.7

UM7 - S275 - OR - 10 - 05 - LM700 - S

型號
Model

行程
Stroke

編碼器
Encoder

解析度
Resolution

線長
Wire length

馬達規格
Motor specifications

驅動器
Driver



Resolution
01: 0.1um
05: 0.5um
10: 1um

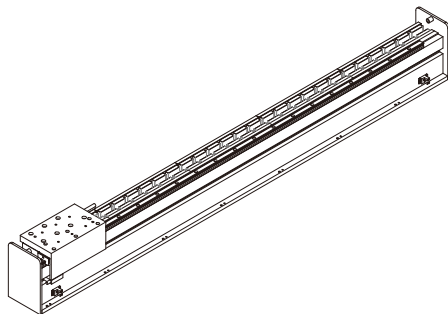
Wire length
03-3m
05-5m
08-8m
*標配: 3m
*standard: 3m

C	科普利 - Copley
D	台達 - Delta
K	科爾摩根 - Kollmorgen
P	松下 - Panasonic
S	高創 - Servotronics

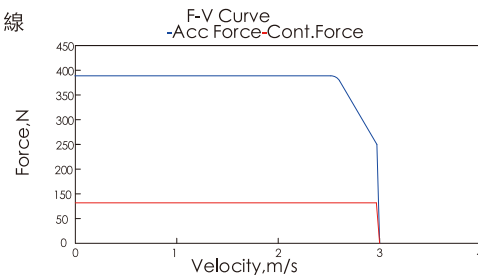
UM7-LM700 規格表 (UM7-LM700 Specification):

馬達規格	Motor specifications	LM700-X2
峯值電流	Peak current(A)	16A
電機額定推力	Motor rated (N)	203N
持續電流	Continuous current(A)	2.3A
重複定位精度	Repeatability(mm)	±0.003mm
最高速度	Maximum speed	3000mm/s (在其他要求滿足要求情況下)
電機峰值推力	Peak thrust (N)	1416N
推力常數	Thrust constant	88.5N/Arms
反向電常數	Inverse electrical constant	72.3(Ke=Kf/3)
相間電阻	Phase resistance	9.5ohms
相間電感	Phase-to-phase inductance	12.5mH
熱阻	thermal resistance	5.3°C/w
線圈最高溫度	Maximum coil temperature	120°C
極距	polar distance	84mm

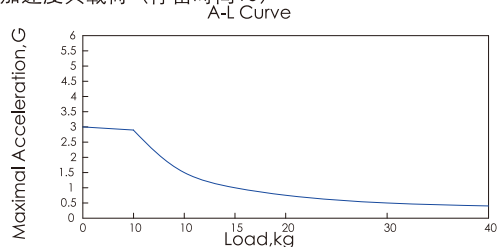
註:直線電機選型需要根據模組運行時具體參數進行選擇, 爲了更好的適用您的方案, 請務必與我司工程進行確認選型。
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 如: (負載, 停頓時間, (加速度, 速度, 行程運行時間, 任意一種), 安裝方式, 配光柵還是磁柵 (精度) 若有其他要求請註明 Such as: (load, pause time, (acceleration, speed, travel time, any kind), installation method, with grating or magnetic grid (accuracy), if there are other requirements, please specify
 負載計算公式: $m_{load} = (F_{max} - U \cdot m_{total}) / a - m_{slip}$ 僅做參考 m_{load} -負載, F_{max} -最大推力, U -摩擦係數, m_{total} -總質量, a -加速度, m_{slip} -滑座質量
 Load formula: $m_{load} = (F_{max} - U \cdot m_{total}) / a - m_{slip}$ Just for reference
 m_{load} -load, F_{max} -Peak thrust, U -Coefficient of friction, m_{total} -Total mass, a -Acceleration, m_{slip} -Sliding mass



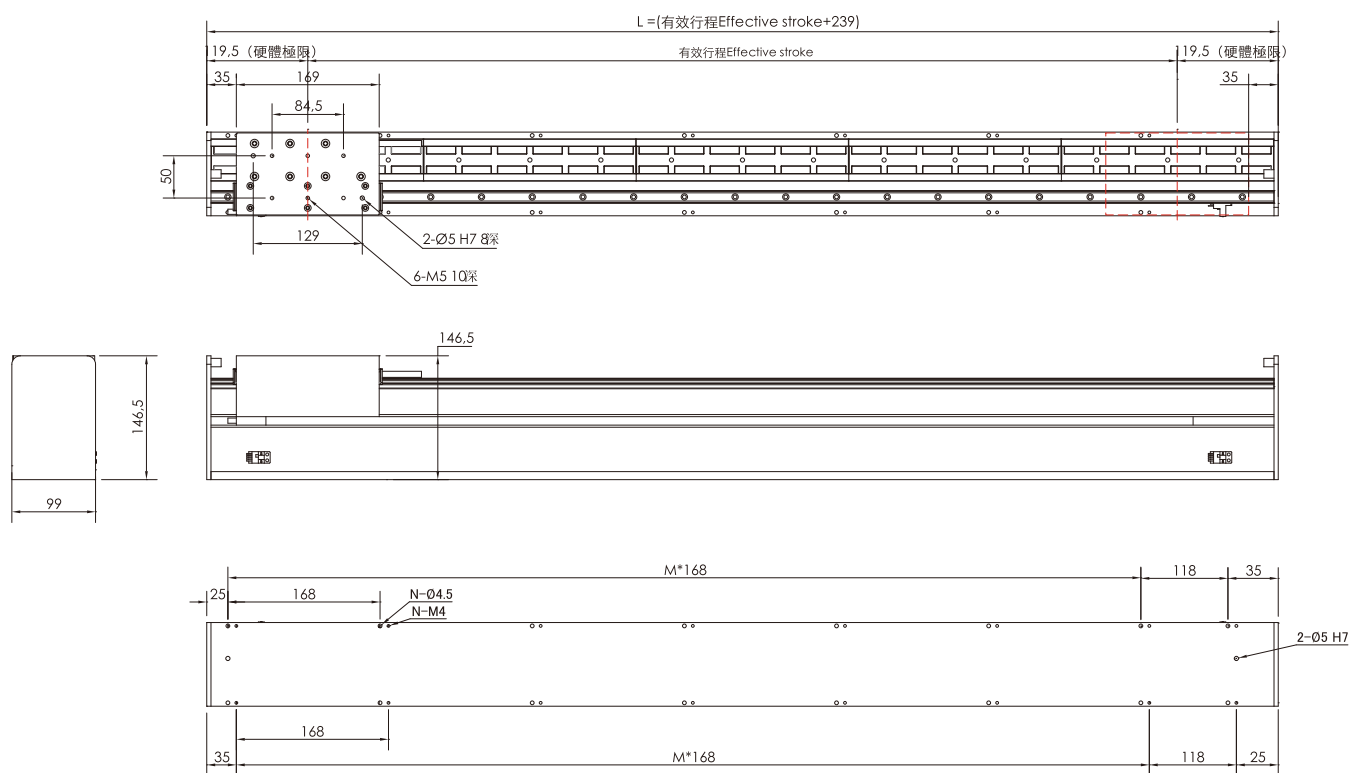
F-V曲線



最大加速度與載荷 (停留時間1S)



UM7-LM700

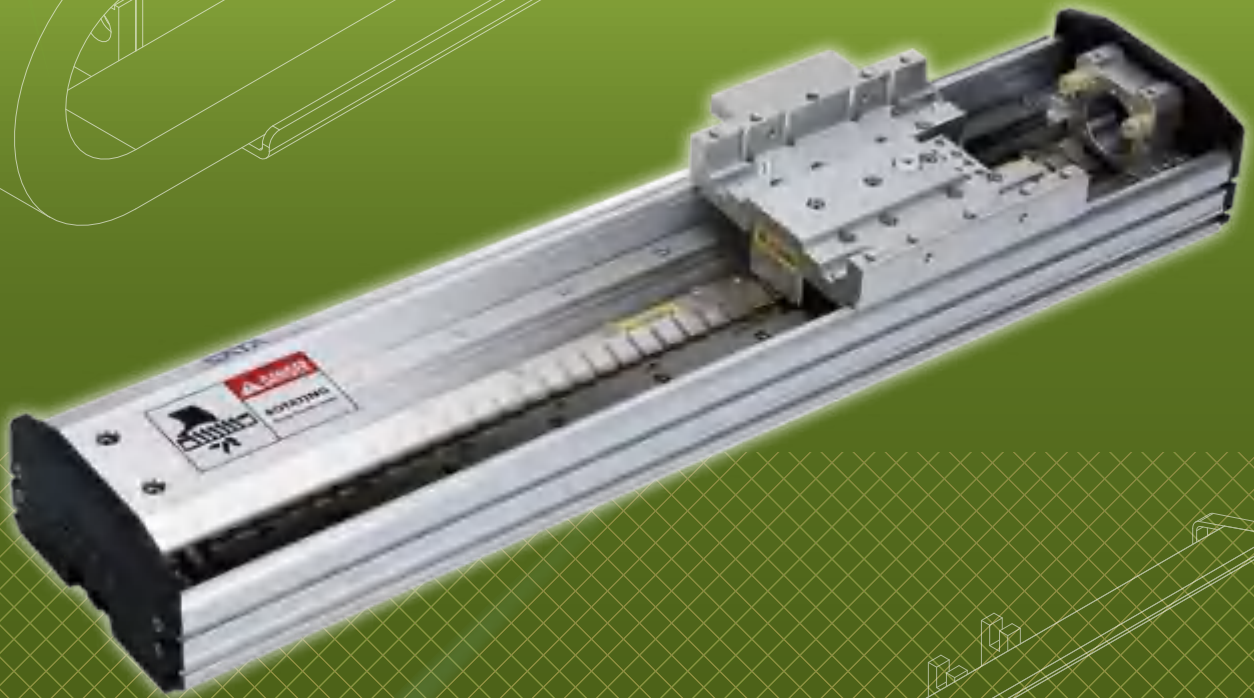


此款型號可客製成無塵環境式及全罩式規格,有需要請跟SATA聯繫
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有效行程	275	443	611	779	947	1115	1283	1451	1619
L	514	682	850	1018	1186	1354	1522	1690	1858
M	2	3	4	5	6	7	8	9	10
N	8	10	12	14	16	18	20	22	24
重量 (kg)	5.3	7.6	9.9	12.2	14.5	16.8	19.1	21.4	23.7

SATA

有鐵芯直線電機 IRON CORE MOTOR



XM100 - S198 - OR - 10 - 05 - 022 - S

型號
Model

行程
Stroke

編碼器



解析度

Resolution
- 01: 0.1um
- 05: 0.5um
- 10: 1um

線長

Wire length
- 03: 3m
- 05: 5m
- 08: 8m
*標配: 3m
*standard: 3m

馬達規格

Motor specifications

驅動器

Driver

C	科普利 - Copley
D	台達 - Delta
K	科爾摩根 - Kollmorgen
P	松下 - Panasonic
S	高創 - Servotronics

XM100-022 規格表 (XM100-022 Specification):

馬達規格 Motor specifications	平板式鐵芯馬達022
峰值電流 Peak current(A)	3.3A
電機額定推力 Motor rated (N)	21.7N
持續電流 Continuous current(A)	0.7A
重複定位精度 Repeatability(mm)	±0.003mm
最高速度 Maximum speed	3000mm/s (在其他要求滿足要求情況下)
機械功率 Rated power	9.78W
電機峰值推力 Peak thrust (N)	67.5N
推力常數 Thrust constant	10.33N/Arms
反向電常數 Inverse electrical constant	10.3(Ke=Kf/3)
相間電阻 Phase resistance	15.76 ohms
相間電感 Phase-to-phase inductance	91mH
熱阻 thermal resistance	6.07°C/w
線圈最高溫度 Maximum coil temperature	120°C
極距 polar distance	30mm

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Note: the selection of linear motor shall be based on the specific parameters of the module operation. In order to better apply your scheme, please be sure to confirm the selection with our engineer.

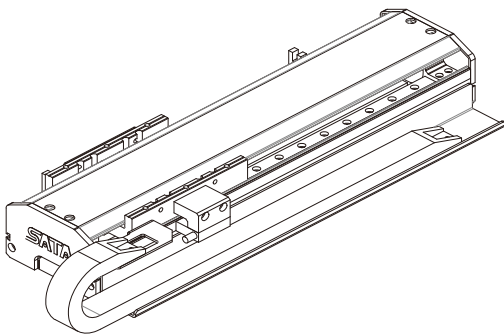
如: 負載, 停頓時間, (加速度, 速度, 行程運行時間, 任意一種), 安裝方式, 配光柵還是磁柵精度若有其他要求請註明

Such as: load, pause time, (acceleration, speed, travel time, any kind), installation method, with optical or magnetic scale, if there are other requirements, please specify

負載計算公式: $m_{load} = (F_{max} - U \cdot m_{total}) / a - m_{slip}$ 僅做參考 m_{load} -負載, F_{max} -最大推力, U -摩擦係數, m_{total} -總質量, a -加速度, m_{slip} -滑座質量

Load formula: $m_{load} = (F_{max} - U \cdot m_{total}) / a - m_{slip}$ Just for reference

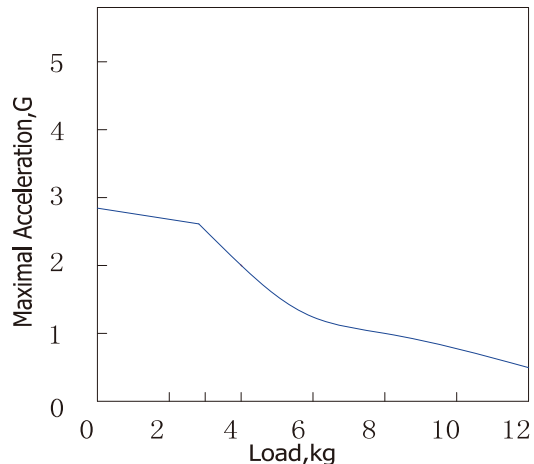
m_{load} -load, F_{max} -Peak thrust, U -Coefficient of friction, m_{total} -Total mass, a -Acceleration, m_{slip} -Sliding mass



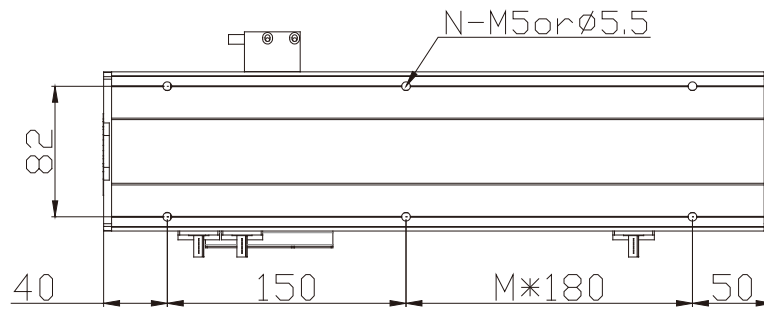
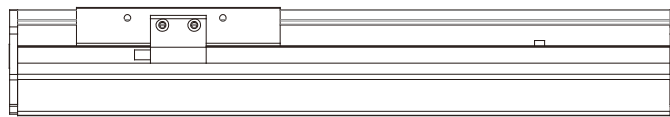
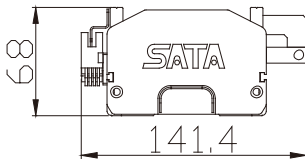
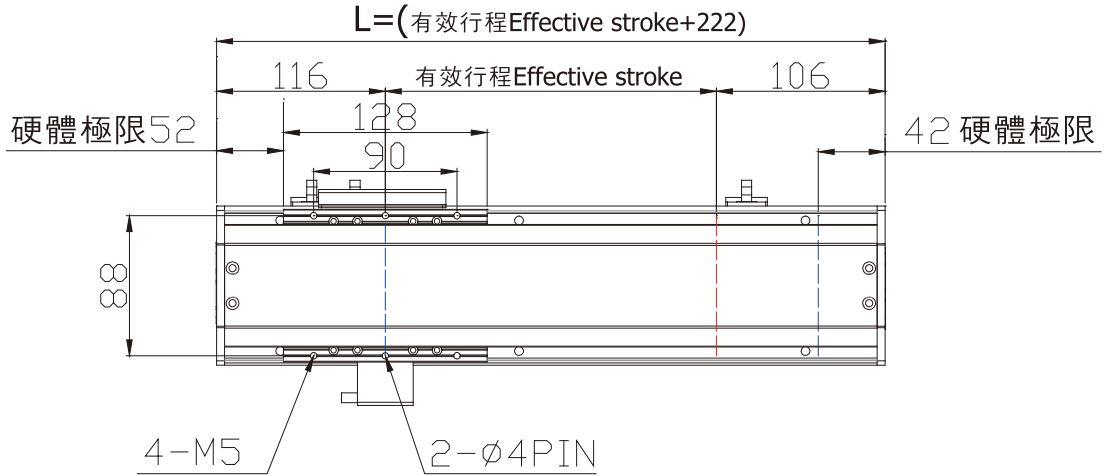
最大加速度與載荷 (停留時間1S)

Maximum acceration and loading (pause time:1s)

A-L Curve



XM100-022



有效行程	198	378	558	738	918	1098	1278	1458	1638	1818
L	420	600	780	960	1140	1320	1500	1680	1860	2040
M	1	2	3	4	5	6	7	8	9	10
N	6	8	10	12	14	16	18	20	22	24
重量 (kg)	3.86	4.84	5.82	6.8	7.78	8.76	9.74	10.27	11.7	12.68

※本公司享有變更規格之權益，恕不另行通知 ※Drawings and specifications are subject to change without prior notice.

XM136 - S166 - OR - 10 - 05 - 150 - S

型號 Model	行程 Stroke	編碼器 Encoder	解析度 Resolution	線長 Wire length	馬達規格 Motor specifications	驅動器 Driver
		OR 光學尺 MR 磁性尺	01: 0.1um 05: 0.5um 10: 1um	03 - 3m 05 - 5m 08 - 8m *標配 3m *standard: 3m		C 科普利 - Copley D 台達 - Delta K 科爾摩根 - Kollmorgen P 松下 - Panasonic S 高創 - Servotronics

XM136-150 規格表 (XM136-150 Specification):

馬達規格 Motor specifications	平板式鐵芯馬達 150
峯值電流 Peak current (A)	11.8A
電機額定推力 Motor rated (N)	150N
持續電流 Continuous current (A)	3.4A
重複定位精度 Repeatability (mm)	±0.003mm
最高速度 Maximum speed	3000mm/s (在其他要求滿足要求情況下)
電機峰值推力 Peak thrust (N)	520N
推力常數 Thrust constant	44N/Arms
反向電常數 Inverse electrical constant	25(Ke=Kf/3)
相間電阻 Phase resistance	3.1ohms
相間電感 Phase-to-phase inductance	17mH
熱阻 thermal resistance	3.4°C/w
線圈最高溫度 Maximum coil temperature	120°C
極距 polar distance	24mm

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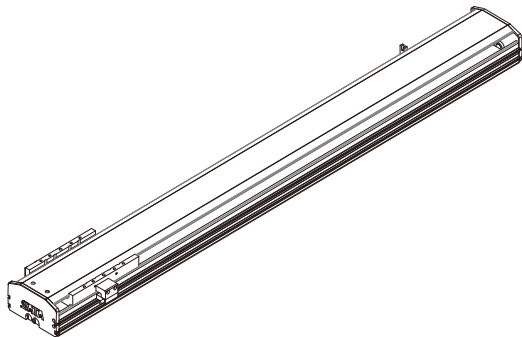
如：負載，停頓時間，（加速度，速度，行程運行時間，任意一種），安裝方式，配光柵還是磁柵精度若有其他要求請註明

Such as: load, pause time, (acceleration, speed, travel time, any kind), installation method, with optical or magnetic scale if there are other requirements, please specify

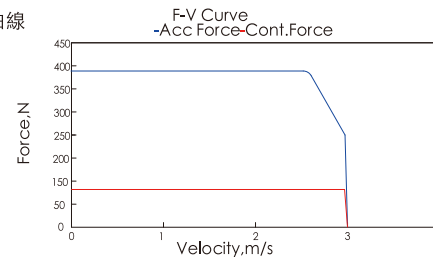
負載計算公式： $m_{\text{總}} = (F_{\text{max}} - \mu m_{\text{滑}}) / a - m_{\text{滑}}$ 僅做參考 $m_{\text{滑}}$ = 負載, F_{max} = 最大推力, μ = 摩擦係數, $m_{\text{滑}}$ = 總質量, a = 加速度, $m_{\text{滑}}$ = 滑座質量

Load formula: $M_{\text{load}} = (F_{\text{max}} - \mu M_{\text{slip}}) / a - M_{\text{slip}}$ Just for reference

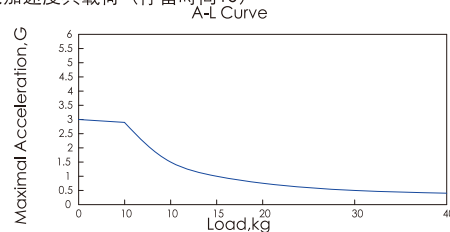
M_{load} = load, F_{max} = Peak thrust, μ = Coefficient of friction, M_{total} = Total mass, a = Acceleration, M_{slip} = Sliding mass



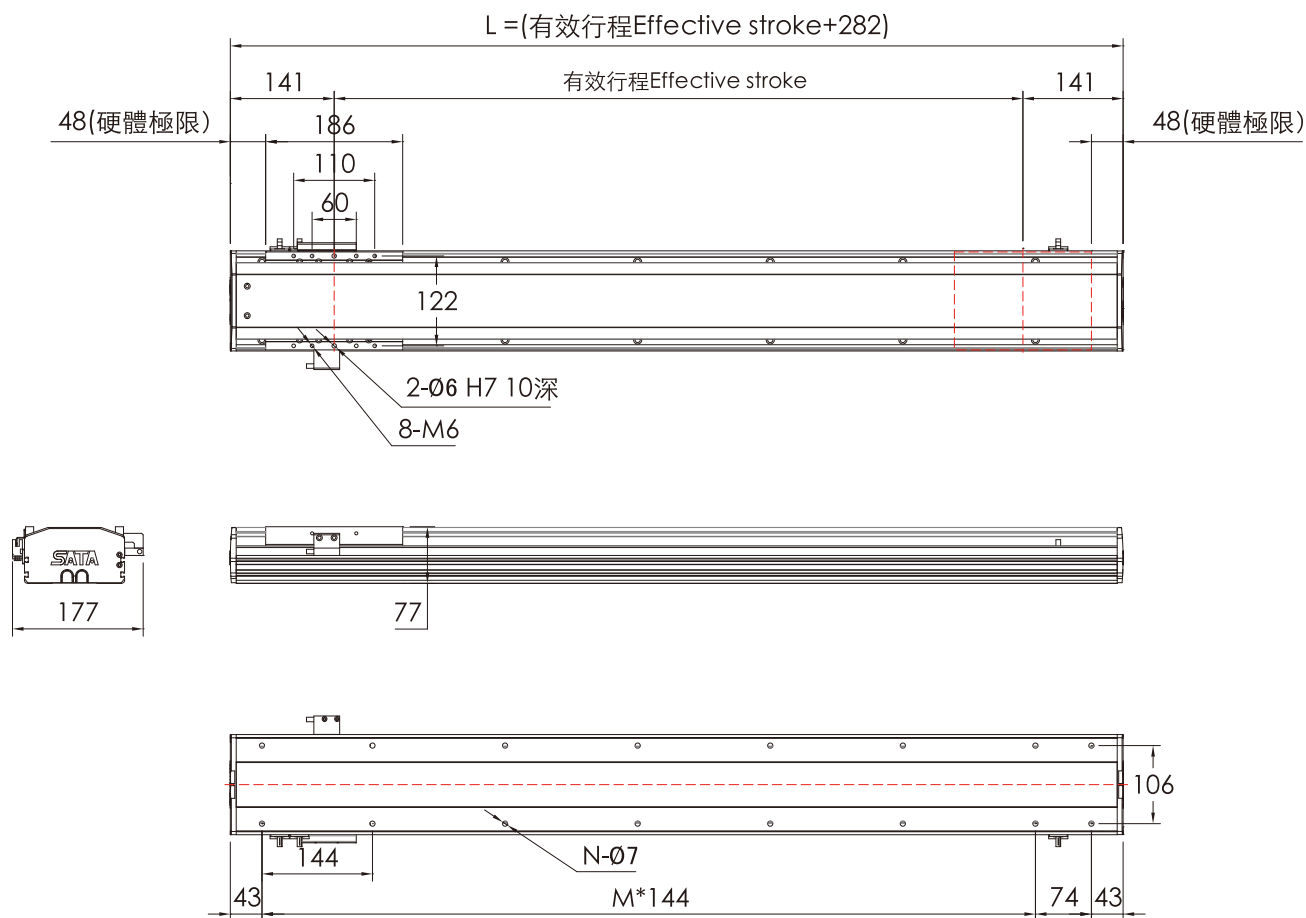
F-V曲線



最大加速度與載荷 (停留時間1S)



XM136-150



有效行程	166	310	454	598	742	886	1030	1174	1318
L	448	592	736	880	1024	1168	1312	1456	1600
M	2	3	4	5	6	7	8	9	10
N	8	10	12	14	16	18	20	22	24
重量 (kg)	7.8	10.5	13.2	15.9	18.6	21.3	24	26.7	29.4

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XM168 - S180 - OR - 10 - 05 - 300 - S

型號 Model	行程 Stroke	編碼器 Encoder	解析度 Resolution	線長 Wire length	馬達規格 Motor specifications	驅動器 Driver
		OR 光學尺 Optical Rule MR 磁性尺 Magnetic Rule	01: 0.1um 05: 0.5um 10: 1um	03- 3m 05- 5m 08- 8m *標配 3m *standard: 3m		C 科普利 - Copley D 台達 - Delta K 科爾摩根 - Kollmorgen P 松下 - Panasonic S 高創 - Servotronics

XM168-300 格表 (XM168-300 Specification):

馬達規格 Motor specifications	平板式鐵芯馬達300
峯值電流 Peak current (A)	23.6A
電機額定推力 Motor rated (N)	300N
持續電流 Continuous current (A)	6.8A
重複定位精度 Repeatability (mm)	±0.003mm
最高速度 Maximum speed	3000mm/s (在其他要求滿足要求情況下)
電機峰值推力 Peak thrust (N)	1046N
推力常數 Thrust constant	44N/Arms
反向電常數 Inverse electrical constant	51 (Ke=Kf/3)
相間電阻 Phase resistance	1.5ohms
相間電感 Phase-to-phase inductance	8.5mH
熱阻 thermal resistance	12.5°C/w
線圈最高溫度 Maximum coil temperature	120°C
極距 polar distance	24mm

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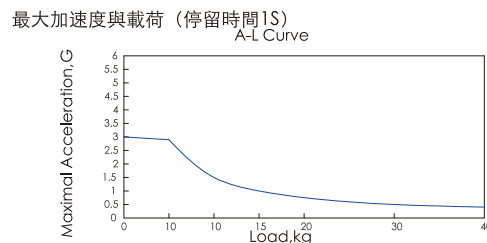
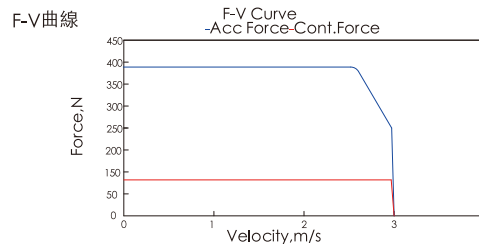
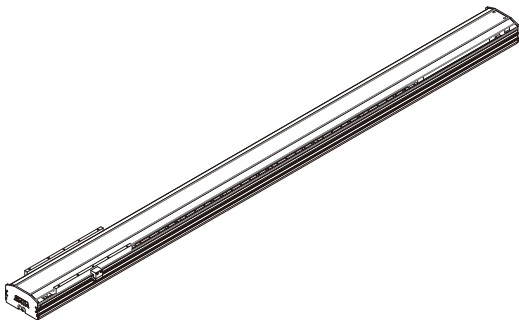
如：負載，停頓時間，（加速度，速度，行程運行時間，任意一種），安裝方式，配光柵還是磁柵精度若有其他要求請註明

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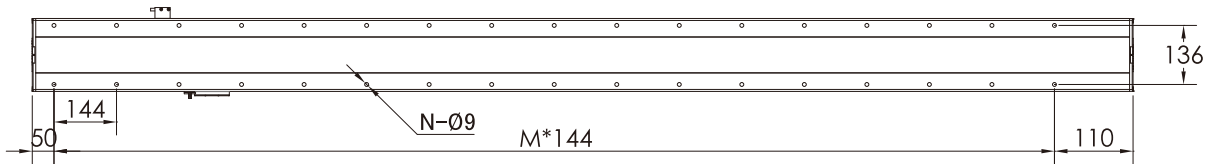
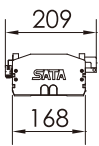
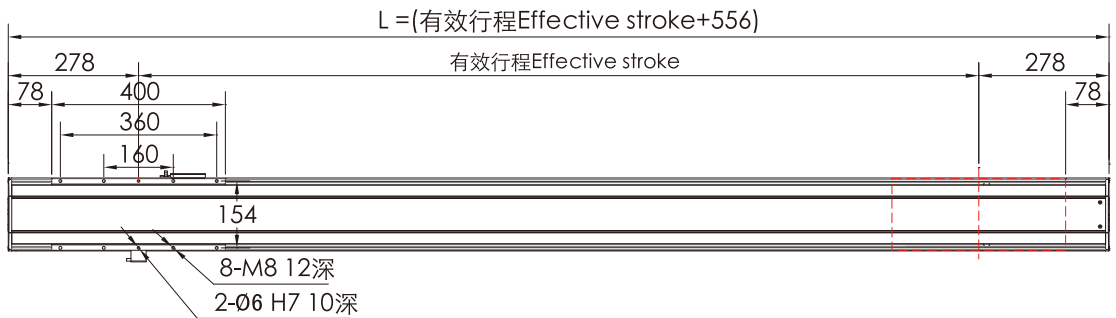
負載計算公式： $M_{load} = (F_{max} - U \cdot m_{slip}) / a - m_{slip}$ 僅做參考 m_{slip} -負載， F_{max} -最大推力， U -摩擦係數， m_{slip} -總質量， a -加速度， m_{slip} -滑座質量

Load formula: $M_{load} = (F_{max} - U \cdot M_{total}) / a - M_{slip}$ Just for reference

M_{load} -load, F_{max} -Peak thrust, U -Coefficient of friction, M_{total} -Total mass, a -Acceleration, M_{slip} -Sliding mass



XM168-300



有效行程	180	324	468	612	756	900	1044	1188	1332	1476	1620	1764	1908	2052	2196
L	736	880	1024	1168	1312	1456	1600	1744	1888	2032	2176	2320	2464	2608	2752
M	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
N	12	14	16	18	20	22	24	26	20	22	24	26	20	22	24
重量 (kg)	15.4	19.2	23	26.8	30.6	34.4	38.2	42	45.8	49.6	53.4	57.2	61	64.8	68.6

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XM202 - S228 - OR - 10 - 05 - 550 - S

型號
Model

行程
Stroke

編碼器

Encoder
OR 光學尺
Optical ruler
MR 磁性尺
Magnetic ruler

解析度

Resolution
01: 0.1um
05: 0.5um
10: 1um

線長

Wire length
03 3m
05 5m
08 8m
*標配 3m
*standard: 3m

馬達規格

Motor specifications

驅動器

Driver

C 科普利 - Copley
D 台達 - Delta
K 科爾摩根 - Kollmorgen
P 松下 - Panasonic
S 高創 - Servotronic

XM202-550 格表 (XM202-550 Specification):

馬達規格 Motor specifications	平板式鐵芯馬達 550
峯值電流 Peak current (A)	20A
電機額定推力 Motor rated (N)	440N
持續電流 Continuous current (A)	7.0A
重複定位精度 Repeatability (mm)	±0.003mm
最高速度 Maximum speed	3000mm/s (在其他要求滿足要求情況下)
電機峰值推力 Peak thrust (N)	1250N
推力常數 Thrust constant	63N/Arms
反向電常數 Inverse electrical constant	71(Ke=Kf/3)
相間電阻 Phase resistance	1.5ohms
相間電感 Phase-to-phase inductance	14 mH
熱阻 thermal resistance	14.5°C/w
線圈最高溫度 Maximum coil temperature	120°C
極距 polar distance	32mm

註: 直線電機選型需要根據模組運行時具體參數進行選擇, 爲了更好的適用您的方案, 請務必與我司工程進行確認選型。

Note: the selection of linear motor shall be based on the specific parameters of the module operation. In order to better apply your scheme, please be sure to confirm the selection with our engineer.

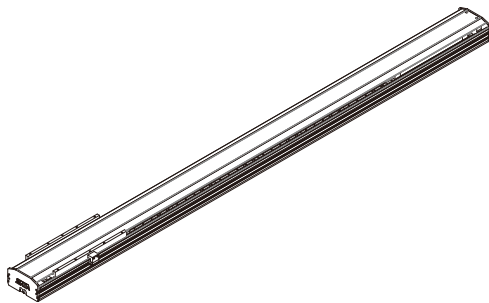
如: 負載, 停頓時間, (加速度, 速度, 行程運行時間, 任意一種), 安裝方式, 配光柵還是磁柵精度若有其他要求請註明

Such as: load, pause time, (acceleration, speed, travel time, any kind), installation method, with optical or magnetic scale, if there are other requirements, please specify

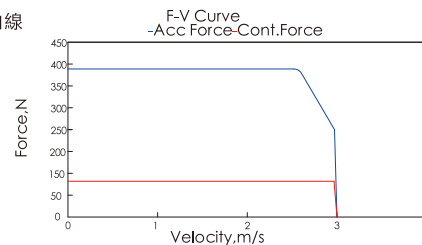
負載計算公式: $M_{load} = (F_{max} - U \cdot M_{total}) / a - M_{slip}$ 僅做參考 M_{load} -負載, F_{max} -最大推力, U -摩擦係數, M_{total} -總質量, a -加速度, M_{slip} -滑座質量

Load formula: $M_{load} = (F_{max} - U \cdot M_{total}) / a - M_{slip}$ Just for reference

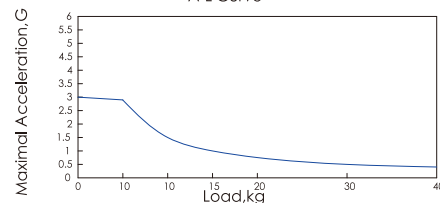
M_{load} -load, F_{max} -Peak thrust, U -Coefficient of friction, M_{total} -Total mass, a -Acceleration, M_{slip} -Sliding mass



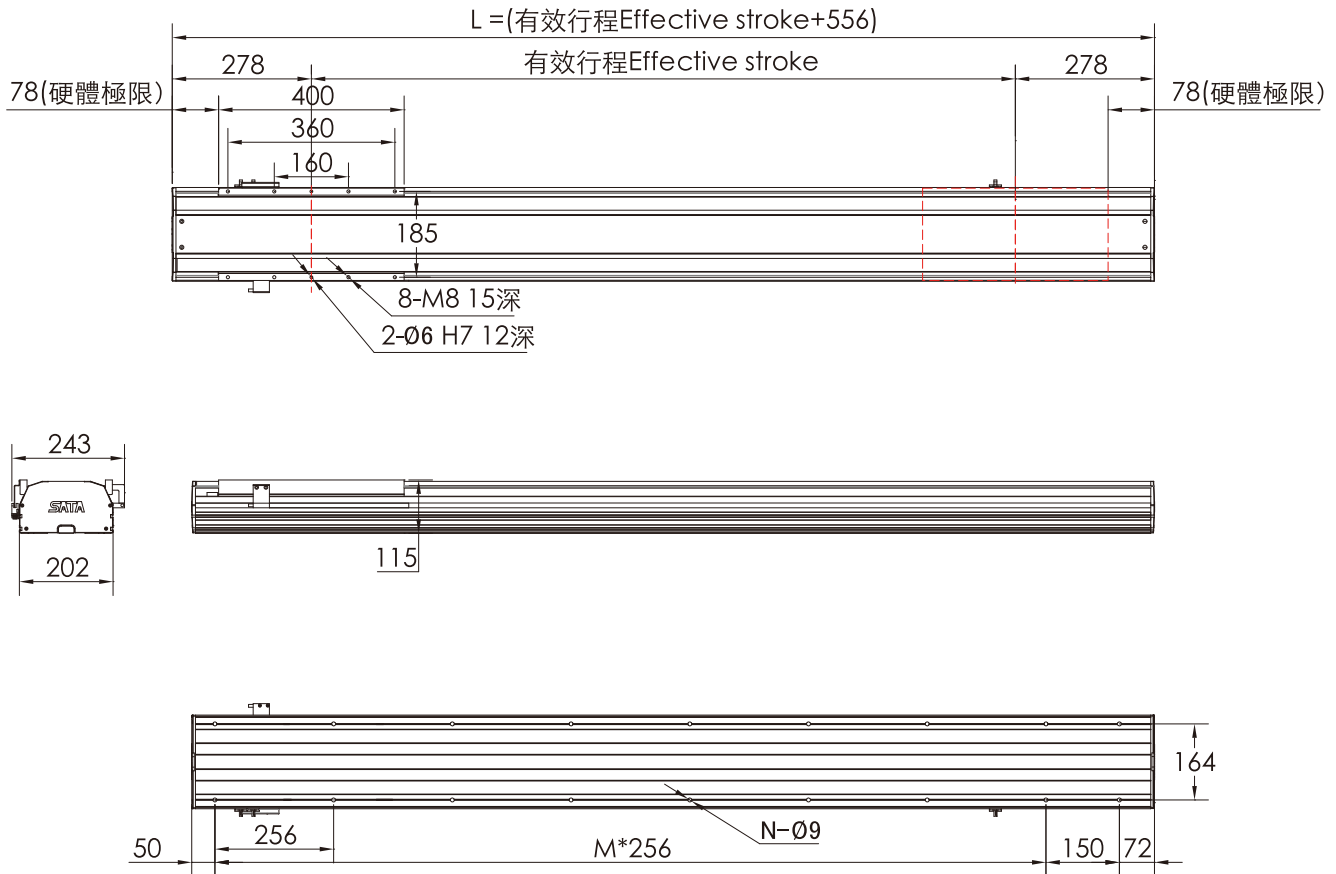
F-V曲線



最大加速度與載荷 (停留時間1S)
A-L Curve



XM202-550



有效行程	228	484	740	996	1252	1508	1764	2020
L	784	1040	1296	1552	1808	2064	2320	2576
M	2	4	6	8	10	12	14	16
N	8	12	16	20	24	20	24	20
重量(kg)	26.4	42	57.6	73.2	88.8	104.4	120	135.6

※本公司享有變更規格之權益，恕不另行通知 ※Drawings and specifications are subject to change without prior notice.

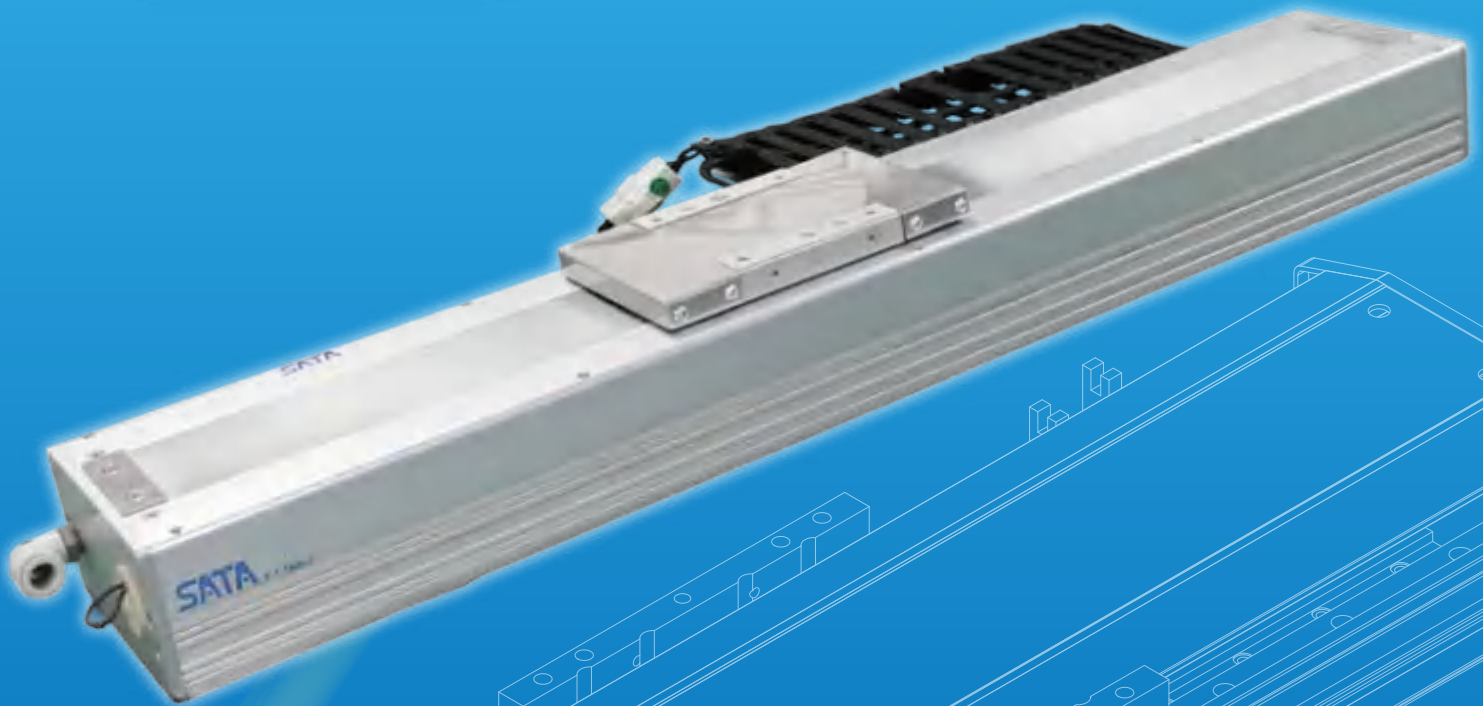
SATA

無塵有鐵芯直線電機

無塵環境

IRON CORE MOTOR

Clean room



CXM136 - S166 - OR - 10 - 05 - 150 - S

型號
Model

行程
Stroke

編碼器
Encoder
OR 光學尺
MR 磁性尺

解析度
Resolution
01: 0.1um
05: 0.5um
10: 1um

線長
Wire length
03 - 3m
05 - 5m
08 - 8m
*標配: 3m
*standard: 3m

馬達規格
Motor specifications

驅動器
Driver

C	科普利 - Copley
D	台達 - Delta
K	科爾摩根 - Kollmorgen
P	松下 - Panasonic
S	高創 - Servotronics

CXM136-150 規格表 (CXM136-150 Specification):

馬達規格 Motor specifications	平板式鐵芯馬達 150
峯值電流 Peak current (A)	11.8A
電機額定推力 Motor rated (N)	150N
持續電流 Continuous current (A)	3.4A
重複定位精度 Repeatability (mm)	±0.003mm
最高速度 Maximum speed	3000mm/s (在其他要求滿足要求情況下)
電機峰值推力 Peak thrust (N)	520N
推力常數 Thrust constant	44N/Arms
反向電常數 Inverse electrical constant	25(Ke=Kf/3)
相間電阻 Phase resistance	3.1ohms
相間電感 Phase-to-phase inductance	17mH
熱阻 thermal resistance	3.4°C/w
線圈最高溫度 Maximum coil temperature	120°C
極距 polar distance	24mm

註：直線電機選型需要根據模組運行時具體參數進行選擇，爲了更好的適用您的方案，請務必與我司工程進行確認選型。

Note: the selection of linear motor shall be based on the specific parameters of the module operation. In order to better apply your scheme, please be sure to confirm the selection with our engineer.

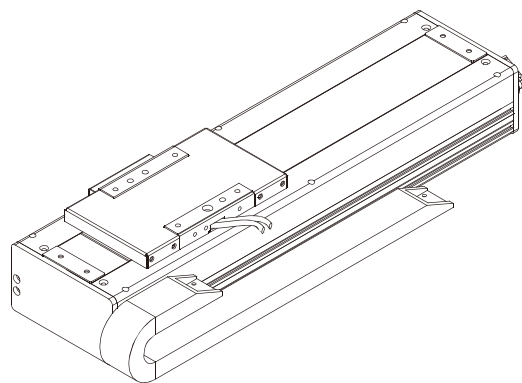
如：負載，停頓時間，（加速度，速度，行程運行時間，任意一種），安裝方式，配光柵還是磁柵精度若有其他要求請註明

Such as: load, pause time, (acceleration, speed, travel time, any kind), installation method, with optical or magnetic scale, if there are other requirements, please specify

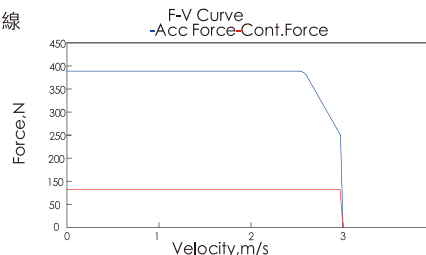
負載計算公式： $m_{load} = (F_{max} - \mu m_{total}) / a - m_{slip}$ 僅做參考 m_{load} -負載， F_{max} -最大推力， μ -摩擦係數， m_{total} -總質量， a -加速度， m_{slip} -滑座質量

Load formula: $M_{load} = (F_{max} - \mu M_{total}) / a - M_{slip}$ Just for reference

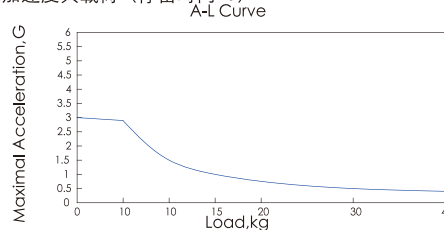
M_{load} -load, F_{max} -Peak thrust, μ -Coefficient of friction, M_{total} -Total mass, a -Acceleration, M_{slip} -Sliding mass



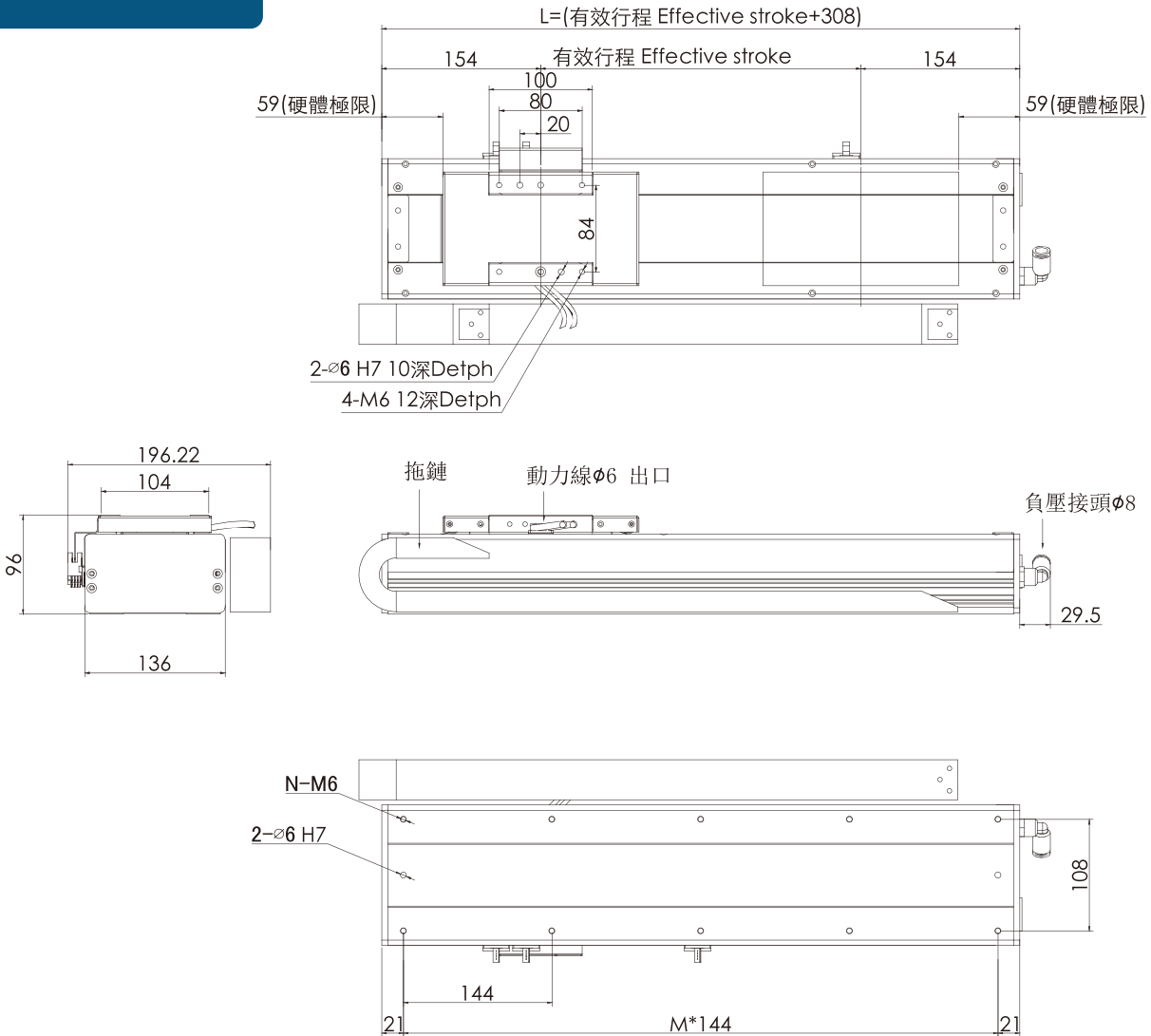
F-V曲線



最大加速度與載荷 (停留時間1S)



CXM136-150



有效行程	166	310	454	598	742	886	1030	1174	1318	1462	1606	1750	1894	2038	2182
L	474	618	762	906	1050	1194	1338	1482	1626	1770	1914	2058	2202	2346	2490
M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
N	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
重量(kg)	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15

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CXM168 - S192 - OR - 10 - 05 - 300 - S

型號
Model

行程
Stroke

編碼器

Encoder
OR 光學尺
MR 磁性尺

解析度

Resolution
- 01: 0.1um
- 05: 0.5um
- 10: 1um

線長

Wire length
03 - 3m
05 - 5m
08 - 8m
*標配 3m
*standard: 3m

馬達規格
Motor specifications

驅動器

Driver

C 科普利 - Copley
D 台達 - Delta
K 科爾摩根 - Kollmorgen
P 松下 - Panasonic
S 高創 - Servotronics

CXM168-300 格表 (CXM168-300 Specification):

馬達規格 Motor specifications	平板式鐵芯馬達300
峯值電流 Peak current (A)	23.6A
電機額定推力 Motor rated (N)	300N
持續電流 Continuous current (A)	6.8A
重複定位精度 Repeatability (mm)	±0.003mm
最高速度 Maximum speed	3000mm/s (在其他要求滿足要求情況下)
電機峰值推力 Peak thrust (N)	1046N
推力常數 Thrust constant	44N/Arms
反向電常數 Inverse electrical constant	51 (Ke=Kf/3)
相間電阻 Phase resistance	1.5 ohms
相間電感 Phase-to-phase inductance	8.5 mH
熱阻 thermal resistance	12.5°C/w
線圈最高溫度 Maximum coil temperature	120°C
極距 polar distance	24mm

註：直線電機選型需要根據模組運行時具體參數進行選擇，為了更好的適用您的方案，請務必與我司工程進行確認選型。

Note: the selection of linear motor shall be based on the specific parameters of the module operation. In order to better apply your scheme, please be sure to confirm the selection with our engineer.

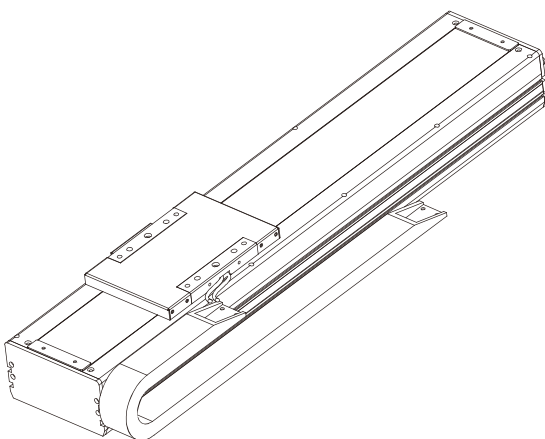
如：負載，停頓時間，（加速度，速度，行程運行時間，任意一種），安裝方式，配光柵還是磁柵精度若有其他要求請註明

Such as: load, pause time, (acceleration, speed, travel time, any kind), installation method, with optical or magnetic scale, if there are other requirements, please specify

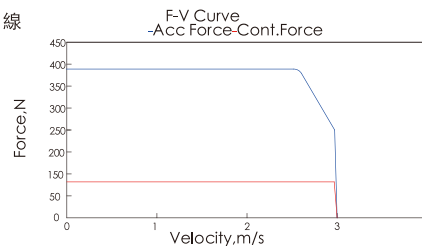
負載計算公式： $M_{load} = (F_{max} - U \cdot M_{total}) / a - m_{slip}$ 僅做參考 m_{slip} -負載， F_{max} -最大推力， U -摩擦係數， M_{total} -總質量， a -加速度， m_{slip} -滑座質量

Load formula: $M_{load} = (F_{max} - U \cdot M_{total}) / a - m_{slip}$ Just for reference

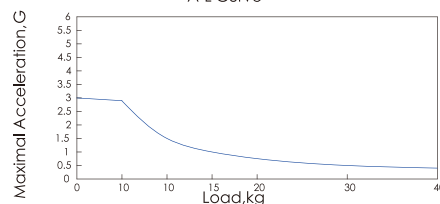
M_{load} -load, F_{max} -Peak thrust, U -Coefficient of friction, M_{total} -Total mass, a -Acceleration, m_{slip} -Sliding mass



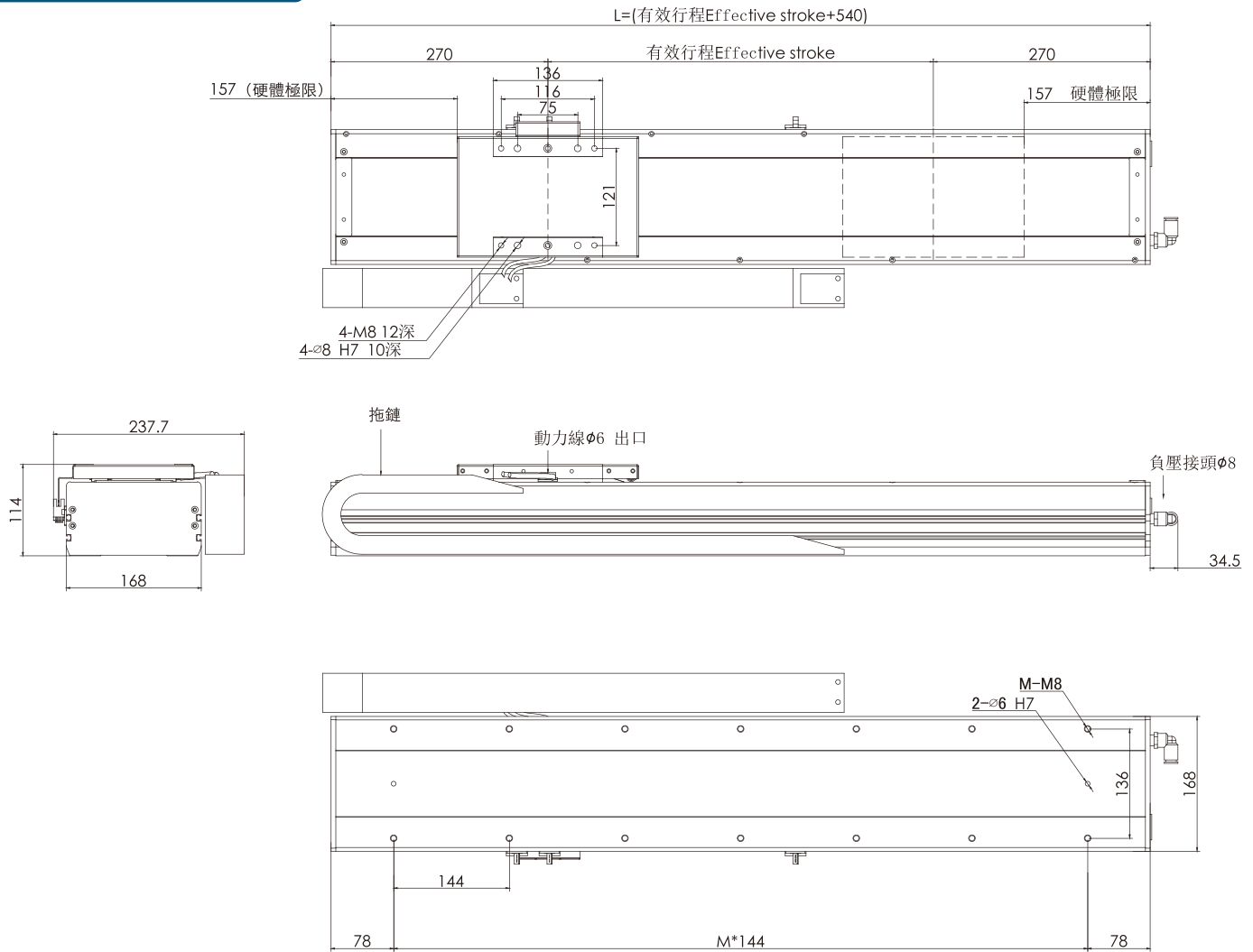
F-V曲線



最大加速度與載荷 (停留時間1S)
A-L Curve



CXM168-300



有效行程	192	336	480	624	768	912	1056	1200	1344	1488	1632	1776	1920	2064	2208	2352
L	732	876	1020	1164	1308	1452	1596	1740	1884	2028	2172	2316	2460	2604	2748	2892
M	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
N	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
重量(kg)	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6	27.6	28.6	29.6	30.6	31.6	32.6	33.6	34.6

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CXM202 - S114 - OR - 10 - 05 - 550 - S

型號 Model	行程 Stroke	編碼器 Encoder	解析度 Resolution	線長 Wire length	馬達規格 Motor specifications	驅動器 Driver
		OR 光學尺 MR 磁性尺	-01: 0, 1um -05: 0, 5um -10: 1um	03- 3m 05- 5m 08- 8m *標配 3m *Standard: 3m		C 科普利 - Copley D 台達 - Delta K 科爾摩根 - Kolmorgen P 松下 - Panasonic S 高創 - Servotronic

CXM202-550 表格 (CXM202-550 Specification):

馬達規格 Motor specifications	平板式鐵芯馬達 550
峯值電流 Peak current (A)	20A
電機額定推力 Motor rated (N)	440N
持續電流 Continuous current (A)	7.0A
重複定位精度 Repeatability (mm)	±0.003mm
最高速度 Maximum speed	3000mm/s (在其他要求滿足要求情況下)
電機峰值推力 Peak thrust (N)	1250N
推力常數 Thrust constant	63N/Arms
反向電常數 Inverse electrical constant	71(Ke=Kf/3)
相間電阻 Phase resistance	1.5ohms
相間電感 Phase-to-phase inductance	14 mH
熱阻 thermal resistance	14.5°C/w
線圈最高溫度 Maximum coil temperature	120°C
極距 polar distance	32mm

註：直線電機選型需要根據模組運行時具體參數進行選擇，爲了更好的適用您的方案，請務必與我司工程進行確認選型。

Note: the selection of linear motor shall be based on the specific parameters of the module operation. In order to better apply your scheme, please be sure to confirm the selection with our engineer.

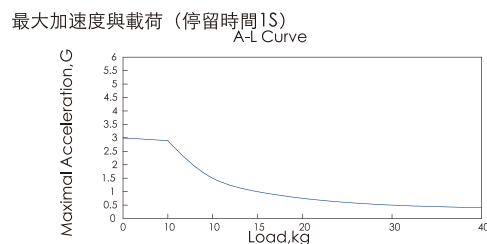
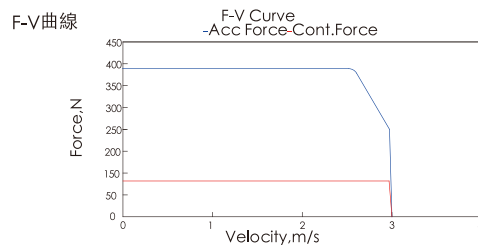
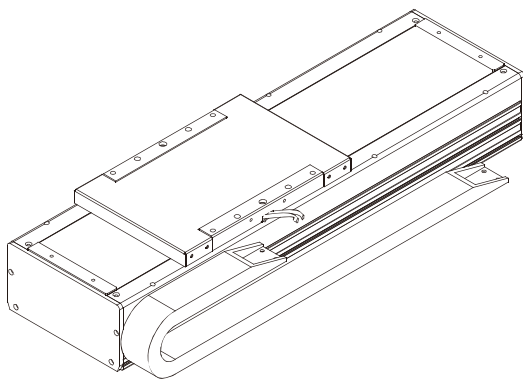
如：負載，停頓時間，（加速度，速度，行程運行時間，任意一種），安裝方式，配光柵還是磁柵精度若有其他要求請註明

Such as: load, pause time, (acceleration, speed, travel time, any kind), installation method, with optical or magnetic scale, if there are other requirements, please specify

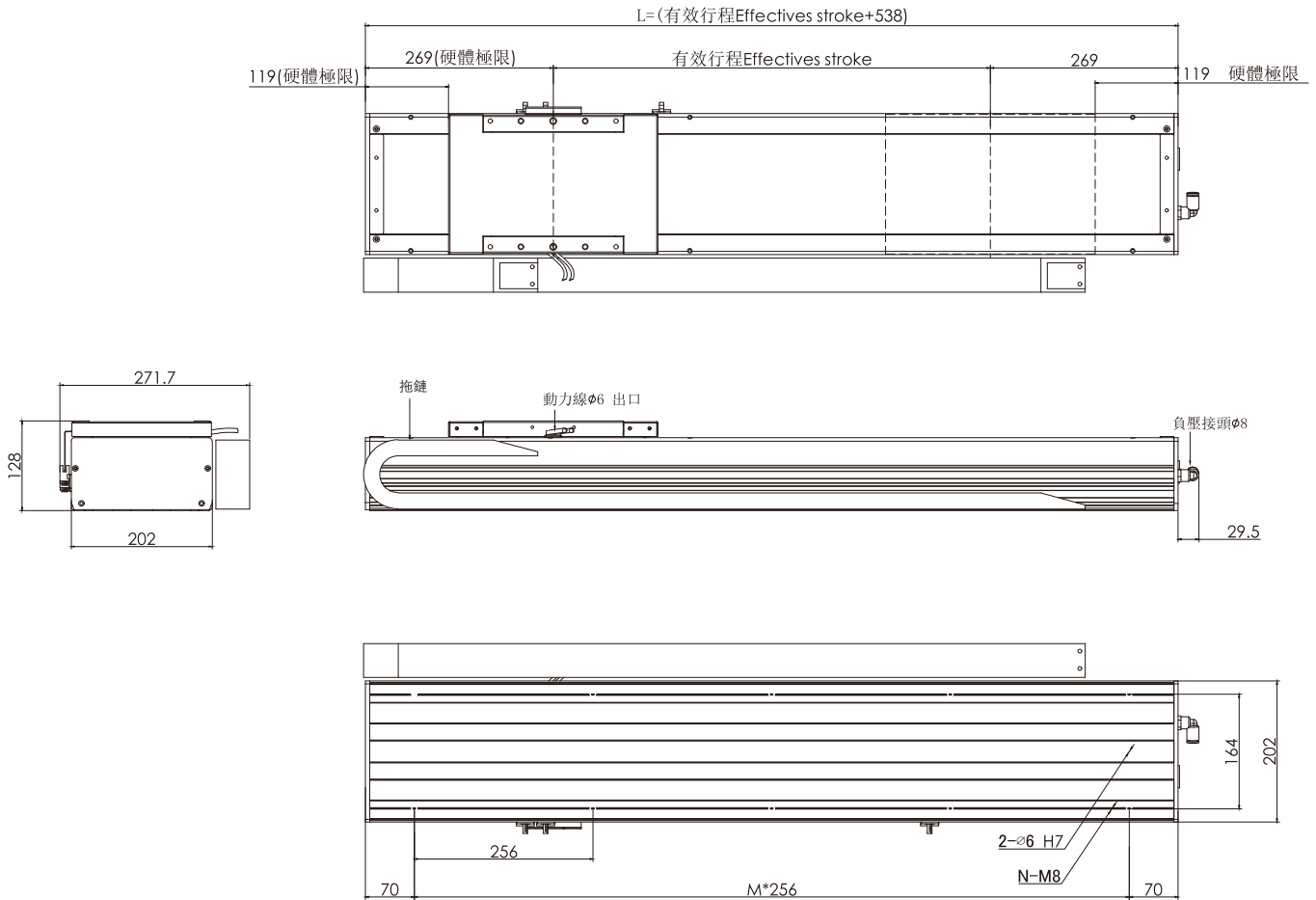
負載計算公式： $M_{load} = (F_{max} - U \cdot M_{total}) / a - M_{slip}$ 僅做參考 M_{load} -負載， F_{max} -最大推力， U -摩擦係數， M_{total} -總質量， a -加速度， M_{slip} -滑座質量

Load formula: $M_{load} = (F_{max} - U \cdot M_{total}) / a - M_{slip}$ Just for reference

M_{load} -load, F_{max} -Peak thrust, U -Coefficient of friction, M_{total} -Total mass, a -Acceleration, M_{slip} -Sliding mass



CXM202-550



有效行程	114	370	626	882	1138	1394	1650	1906	2126
L	652	908	1164	1420	1676	1932	2188	2444	2700
M	2	3	4	5	6	7	8	9	10
N	6	8	10	12	14	16	18	20	22
重量(kg)	30.3	33.3	36.3	39.3	42.3	45.3	48.3	51.3	54.3

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