



Standard Single-Axis Linear Motor Stage **SSA**

Technical Information



HIWIN Support



About HIWIN



Linear Motor System

Automated Transport / AOI Application
/ Precision Positioning / Semiconductor Application

- Air Bearing Platform
- XY Stage
- Gantry Systems
- Single-Axis Linear Motor Stage



Linear Motor

Machine Tool / Semiconductor / Touch Panel / Laser Manufacturing Machine / Glass Cutting Machine

- Iron Core Linear Motor-LMSA, LMSA-Z, LMFA, LMFC, LMFP, LME Series
- Ironless Linear Motor-LMC Series
- Tubular Motor-LMT Series



Torque Motor / Direct Drive Motor

Machine Tools / Lithium-ion Battery / Gear Machining and Inspection

- Torque Motor-TM-2 / IM-2, TMRW, TM-2 (JO) Series

Display / Automation / Semiconductor / Lithium-ion Battery / Robot / Laser Cutting / AOI Inspection

- Direct Drive Motor-DMS, DMY, DMN, DMT, DMH Series



Controller / Drive / AC Servo Motor

Semiconductor / SMT / 3C Electronics / Automation Equipment / New Energy Equipment / Industrial Machinery

- Controller-HMC Series
- Drive-E1, E2, D1, D2T/D2T-LM Series
- AC Servo Motor-E, FR Series



Linear Actuator / Servo Actuator

Medical / Automation / Electric Servo Press / Barrier-free Equipment Industry

- Servo Actuator-LAA Series
- Linear Actuator-LAM, LAS, LAN, LAC Series



Position Measurement System

PCB / Automobile Automation / Automation / Solar Process Equipment / Laser Cutting

- High Resolution-PM, APM Series
- Signal Translator
- High Performance Counter



Semiconductor Subsystem

Semiconductor / LED / Panel
• EFEM
(Equipment Front End Module)

- Wafer Robot
- Load Port
- Wafer Aligner



Multi-Axis Robot

Pick-and-Place / Assembly / Array and Packaging / Semiconductor / Electro-Optical Industry / Automotive Industry / Food Industry

- Articulated Robot
- SCARA Robot
- Electric Gripper
- Integrated Electric Gripper



Single-Axis Robot

Precision / Semiconductor / Medical / FPD

- KK, SK
- KS, KA
- KU, KE, KC



Torque Motor Rotary Table

Medical / Automotive Industry / Machine Tools / Machinery Industry

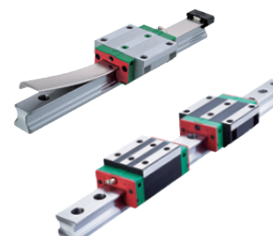
- RAB Series
- RAS Series
- RCV Series
- RCH Series



Ballscrew

Precision Ground / Rolled

- Super S Series
- Super T Series
- Mini Roller
- Ecological & Economical Lubrication Module E2
- Rotating Nut (R1)
- Energy-Saving & Thermal-Controlling (Cool Type)
- Heavy Load Series (RD)
- Ball Spline



Linear Guideway

Automation / Semiconductor / Medical

- Ball Type-HG, EG, WE, MG, CG
- Quiet Type-QH, QE, QW, QR
- Other-RG, E2, PG, SE, RC

HIWIN® MIKROSYSTEM

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SSA

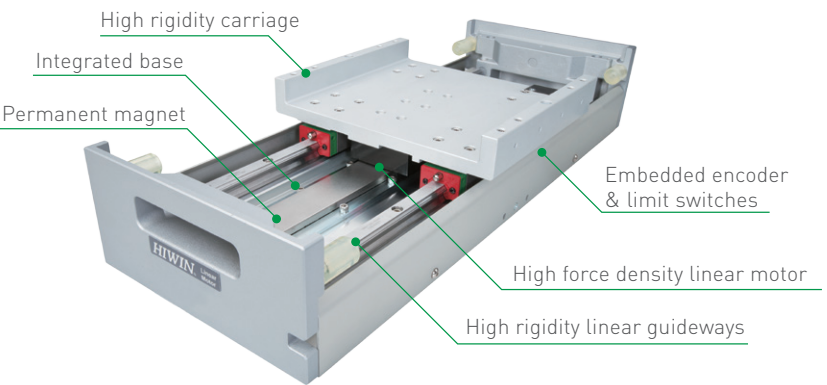
Short lead time and high accuracy

Standard Single-Axis Linear Motor Stage

Description of Internal Structure

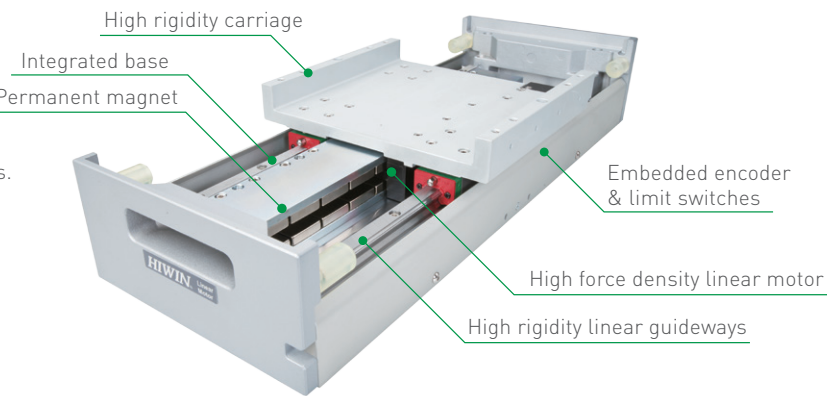
Ironcore Motors

- High force density linear motors maximize thrust in a limited space, suitable for high dynamic response.
- High-quality magnet has the advantages of high temperature resistance and excellent stability.
- With the velocity ripple compensation function of the E1 drive, velocity ripple reaches as low as 1 % (10 mm/s).



Ironless Motors

- The ironless linear motor has low inertia and is suitable for slower scanning/inspection applications.
- Utilizing a double row of high quality magnets increases the strength of magnetic field.





SSA Series

HIWIN MIKROSYSTEM Single-Axis Linear Motor Stage Features

- High force density design paired with high speed response (3.2 kHz) which maximizes linear motor performance.
- Embedded encoders and limit switches to avoid environmental interference.
- Error mapping before shipment when purchased with HIWIN drives.



Cover Type

Standard Type (S)	High Dustproof Type (M)
General Application (normal environment)	Laser cutting and 3D printing (harsh environment)
	



Max. Acceleration **5G**



Max. Velocity **5 m/s**



Stroke **100~2700 mm**



Accuracy **±1 μm**



LMSSA-13 S100-1-800-G5.3A-S-S-A0000

Width (mm)

08: 80
10: 100
13: 135
18: 185
20: 206

Motor type

S: Ironcore
C: Ironless

Rated force level ^{(*)1}

050, 100, 200, 300, 500, 700

Number of forcers

1: Single forcer
2: Dual forcers

Stroke (mm)

100~2700
(Available in 50 mm increment up to 1300 mm and 100 mm increments up to 2700 mm)

Encoder type ^{(*)1}

A: Analog optical
D: Analog magnetic
G: Digital 1 μm resolution optical encoder
K: Digital 0.1 μm resolution optical encoder
H: Hall encoder (Analog)
P: Absolute optical encoder 0.5 μm (BiSS-C)
R: Absolute magnetic encoder 1 μm (BiSS-C)
V: Digital 1 μm resolution magnetic encoder

Custom code

Standard: 0000

Voltage

Standard 110~220 Vac: A
High voltage 380~424 Vac: B
(380 Vac for SSA-08,10,13)
(424 Vac for SSA-18,20)

Color

Aluminum color: S
(For SSA-18,20)

Black: B

Cover

Standard Type: S
High Protective Type: M

Limit switch

NPN,NC: A
PNP,NC: B

Cable length ^{(*)3}

Power: 3 m / Encoder: 3 m: 3.3
(For SSA-08,10)
Power: 5 m / Encoder: 3 m: 5.3
Power: 7 m / Encoder: 3 m: 7.3
(For SSA-13, 18, 20)

Note:


1. Please refer to Product Dimension and Specification on p.8~p.13.

2. Encoder extension cable is sold separately [see p.100].


3. The length of cable is measured from the motor/encoder.

The length from the forcer plate is 0.5 m shorter. For example, if the distance from the motor/encoder is 3 m, the distance from the forcer plate is 2.5 m

Quick Selection Program



Use LMSSA
selection tool
now available!





HIWIN MIKROSYSTEM


Calculation


Selection Web Mode


According to the required motion condition to select the specification of the product.


LMSSA


LM Motor


AC Servo Motor


Direct Drive Motor


Regen Resistor

Disclaimer : The real service life can be influenced by many factors, such as lubrication, assembly,envi
The above service life is only an estimation deduced from theoretical calculation.

Android apk Downloads (SSA)

Download

Selection PC Mode (LM Motor - Torque Motor)

Version 1.0.0.28

Description

Specification selection software
OS : Windows 7 or above


2018/01/24 Update

File Size

14.6 MB

Installation

01 Select motor type



LMSSA-Standard Single-Axis linear motor stage report

Stage spec : LMSSA-1BS200-1-1000-E5.3A-S-5-A0000

Drive spec : D2T-1023-S-C5-0L

Part number of encoder cable :
Encoder extension cable-HE00EJ6DF200

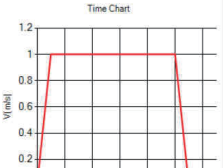
Customization description :

Report


2D

3D

	Motion curve type	Trapezoid type	Time of acceleration(sec)	
Specification	Payload (kg)	20	Time of constant speed(sec)	
	Housing of force (kg)	4.06	0.1	
	Stroke (m)	1	Distance of acceleration(m)	
	Total time (sec)	1.2	0.9	
	Max. Velocity (m/s)	1	Distance of deceleration(m)	
	Max. Acceleration (m/s ²)	10	0.1	
	Friction coefficient (u)	0.004	Cycle time(sec)	
			1.2	
	Calculate data	RMS force (N)	95.64	
		Peak force in acceleration area (N)	238.77	
RMS current (A)		1.97		
Peak current in acceleration area (A)		4.91		
Confirm		LM Continuous force (N)	205	
	LM Peak force (N)	579		
	LM Continuous current (A)	4.2		
	LM Peak current (A)	12.7		
Installation	Eccentric load-Lx(mm)	Horizontal		
	Eccentric load-Ly(mm)	0		
	Eccentric load-Lz(mm)	0		
	Regen resistor sizing	Without regen resistor		



03 Review report and drawing



1. Width of base: 18 : 186mm

2. Number of force/under one axis: 1

3. Stroke: Select mm

4. Repeatability: ±3 μm (E : Digital magnetic encoder 1μm)

5. Additional purchasing (Tick the checkboxes):
☒ Drives (including communication cables and accessories)
☐ Hall sensor
☐ Control signal cable(connect with host controller)
☐ Communication cable(connect with PC)
☐ Power supply filter(install the filter at the input side)

5.1 Drive type: D2T [How to select suitable drives](#)

5.2 Communication Protocol: Analog voltage command+Pulse

6. Cable length: 5.3 : Power cable 5M/ Encoder cable 3M

6.1 Encoder extension cable: 2M
 Remarks :
 1. Encoder cable is able to customize the length and the maximum length is 3 M. If you need more longer cable, please purchase an additional cable to extend the cable length.
 2. The encoder cable output is Molex D-sub connector that should be necessary to purchase an additional cable for collocated with HIWIN Drive.
 3. Cable length of limit switch : 0.3M fly leads for stroke>1500mm; 2M fly leads for stroke>1500mm.

7. Limit switch: A : NPN/NC

8. Cover: S : Standard cover

9. Color: S : Aluminum

02 Set conditions

Applications and Solutions

High speed positioning & High stiffness

With E1-series drive, mechanical vibration and resonance can be greatly reduced. High stiffness provides superior positioning performance.

Pick & Place

Positioning

Multistage and automated production

Standard modules can quickly meet the planning of production lines, and can simultaneously perform automated operations such as assembly, gluing and laser marking.

Pressing

Gluing

Laser

High precision inspection and machining

The E1-series drive compensation function improves settling time and position tracking error in precision inspection and machining process. Efficiency and production yield rate can be effectively boosted.

Positioning

Laser

Dual drive gantry control




With E1-VG series drive, linear and rotational gantry control can be easily achieved.

Scanning





Positioning

Selection and Features

Product Specification



Model No.	Cover	Motor Type	Rated Force Level	Base Width (mm)	Continuous Force (N)	Peak Force (N)	Max. Velocity (m/s) ^(*)		Stroke (mm)	Repeatability (μm)	Standard Cable Length (M)	Color	Features	Drives ^(*)
LMSSA-08S		Ironcore	050	80	52	112	5 (5)		Single forcer: 100~1400 Dual forcers: 100~1200	A: Analog optical (pitch: 40 μm) K: Digital Optical 0.1 μm P: Absolute optical 0.5 μm (BiSS-C) ↓ Repeatability: ±1 μm; Accuracy: ±2 μm ----- G: Digital optical 1 μm V: Digital magnetic 1 μm R: Absolute magnetic 1 μm (BiSS-C) ↓ Repeatability: ±2 μm; Accuracy: ±4 μm ----- D: Analog magnetic (pitch 1 mm) ↓ Repeatability: ±3 μm; Accuracy: ±6 μm	Power 3M Encoder 3M ----- Power 5M Encoder 3M	Black	• The slimmest model among the whole series products. (80 mm)	E2-3A E1-400W (E1-5kW)
			100		104	224	5 (5)		Single forcer: 100~1300 Dual forcers: 100~1000					E2-6.3A E1-1kW (E1-5kW)
LMSSA-10S			100	100	103	289	4.4 (5)		Single forcer: 100~1400 Dual forcers: 100~1200		Power 5M Encoder 3M		• Smallest width of 100 mm among all models with equivalent continuous force (205N).	E2-3A E1-400W (E1-5kW)
			200		205	579	4.4 (5)		Single forcer: 100~1300 Dual forcers: 100~1000					E2-6.3A E1-1kW (E1-5kW)
LMSSA-13S			100	135	103	289	4.4 (5)		Single forcer: 100~2700 Dual forcers: 100~2500		Power 5M Encoder 3M ----- Power 7M Encoder 3M		• Smallest width of 135 mm among all models with 2 meters stroke.	E2-3A E1-400W (E1-5kW)
			200		205	579	4.4 (5)		Single forcer: 100~2600 Dual forcers: 100~2300					E2-6.3A E1-1kW (E1-5kW)
			300		308	868	4.4 (5)		Single forcer: 100~2500 Dual forcers: 100~2100					E2-9.4A E1-1.2kW (E1-5kW)

Note: 1. The maximum. velocity of the high-voltage motor is in parentheses.

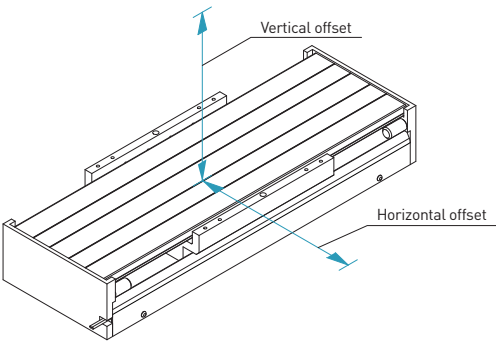
Model No.	Cover	Motor Type	Rated Force Level	Base Width (mm)	Continuous Force (N)	Peak Force (N)	Max. Velocity (m/s) ^(*)		Stroke (mm)	Repeatability (μm)	Standard Cable Length (M)	Color	Features	Drives ^(*)
LMSSA-18S		Ironcore	100	185	103	289	4.4 (5)		Single forcer: 100~2700 Dual forcers: 100~2400	A: Analog optical (pitch: 40 μm) K: Digital Optical 0.1 μm P: Absolute optical 0.5 μm (BiSS-C) ↓ Repeatability: ±1 μm; Accuracy: ±2 μm ----- G: Digital optical 1 μm V: Digital magnetic 1 μm R: Absolute magnetic 1 μm (BiSS-C) ↓ Repeatability: ±2 μm; Accuracy: ±4 μm ----- D: Analog magnetic (pitch 1 mm) ↓ Repeatability: ±3 μm; Accuracy: ±6 μm ----- H: Hall encoder (Pitch 30 mm) Ironcore only ↓ Repeatability: ±7.5 μm		Aluminum Black	<ul style="list-style-type: none">• Suitable to be used as lower axis in stack applications.• 2 colors available	E2-3A E1-400W (E1-5kW)
			200		205	579	4.4 (5)		Single forcer: 100~2600 Dual forcers: 100~2300					E2-6.3A E1-1kW (E1-5kW)
			300		308	868	4.4 (5)		Single forcer: 100~2500 Dual forcers: 100~2000					E2-9.4A E1-2kW (E1-5kW)
LMSSA-18C		Ironless	100	185	75	300	5		Single forcer: 100~2700 Dual forcers: 100~2400	Power 5M Encoder 3M ----- Power 7M Encoder 3M		Aluminum Black	<ul style="list-style-type: none">• Suitable to be used as lower axis in stack applications.• Low velocity ripple even at low velocity (1% @ 10 mm/s).• 2 colors available	E2-6.3A E1-1kW
			200		150	600	5		Single forcer: 100~2500 Dual forcers: 100~2000					E2-6.3A E1-1kW
LMSSA-20S		Ironcore	300	206	362	1023	2.2 (4.9)		Single forcer: 100~2600 Dual forcers: 100~2300			Aluminum Black	<ul style="list-style-type: none">• Model with biggest force among the whole series products (continuous force 725 N).• High rigidity.• Fast point to point period movement (acceleration 5G)• Suitable to be used as lower axis in stack applications.• 2 colors available	E2-6.3A E1-1kW (E1-5kW)
			500		544	1535	2.2 (4.9)		Single forcer: 100~2500 Dual forcers: 100~2000					E2-9.4A (E1-5kW) E1-1.2kW
			700		725	2048	2.3 (5)		Single forcer: 100~2400 Dual forcers: 100~1800					E2-9.4A (E1-5kW) E1-1.2kW
LMSSA-20C		Ironless	100	206	91	364	5		Single forcer: 100~2600 Dual forcers: 100~2300			Aluminum Black	<ul style="list-style-type: none">• High rigidity.• Low velocity ripple even at low velocity (1% @ 10mm/s).• Suitable to be used as lower axis in stack applications.• 2 colors available	E2-3A E1-400W
			200		145	580	2.8		Single forcer: 100~2500 Dual forcers: 100~2000					E2-3A E1-400W

Note: 1. The maximum. velocity of the high-voltage motor is in parentheses.

Product Specification

Appearance		Standard Type (S)								High Dustproof Type (M)							
																	
Model		08S050		08S100		10S100		10S200		13S100		13S200		13S300			
Dimension	Cover	S	M	S	M	S	M	S	M	S	M	S	M	S	M		
	Carriage Length (mm)	160		260		160		260		160		260		360			
	Carriage Width (mm)	100	144	100	144	110	164	110	164	135	198	135	198	135	198		
	Base Width (mm)	80				100				135							
	Total Height (mm)	75	78	75	78	76	78	76	78	95	98	95	98	95	98		
Spec.	Continuous Force (N)	52		104		103		205		103		205		308			
	Peak Force (N)	112		224		289		579		289		579		868			
	Stroke (mm)	100~1300 mm (50 mm increments); 1300~2700 mm (100 mm increments)															
	Encoder Resolution	Analog optical 0.1 μm / Digital optical 1 μm / Digital optical 0.1 μm / Digital magnetic 1 μm / Analog magnetic 1 μm / Absolute optical 0.5 μm / Absolute magnetic 1 μm															
	Repeatability	Table 1															
	Accuracy ⁽¹⁵⁾	Table 1															
	Horizontal Straightness	N/A								±8 μm / 300 mm (Stroke below 1200 mm) ⁽¹²⁾							
	Vertical straightness	N/A								±8 μm / 300 mm (Stroke below 1200 mm) ⁽¹²⁾							
	Max. Velocity (m/s) ^(13,4,6)	5 (5)	5 (5)	5 (5)	5 (5)	4.4 (5)	4.4 (5)	4.4 (5)	4.4 (5)	4.4 (5)	4.4 (5)	4.4 (5)	4.4 (5)	4.4 (5)	4.4 (5)		
Moving Mass (kg)	1.6	1.8	2.5	3	1.9	2.1	3	3.4	2.9	3.4	4.2	5.2	5.9	7.5			

Schematic diagram of offset load capacity



Note:

- For the load capability, refer to the “Offset Load Capacity Curve” on the page of each specification.
- It is recommended that the speed should not exceed 2 m/s for vertical application.

Appearance		Standard Type (S)										High Dustproof Type (M)																	
																													
Model		18S100		18S200		18S300		18C100		18C200		20S300		20S500		20S700		20C100		20C200									
Dimension	Linear Motor Type	Ironcore						Ironless				Ironcore						Ironless											
	Cover	S	M	S	M	S	M	S	M	S	M	S	M	S	M	S	M	S	M	S	M								
	Carriage Length (mm)	180		240		370		180		370		240		370		470		240		370									
	Carriage Width (mm)	203	232	203	232	203	232	203	232	203	232	229	258	229	258	229	258	229	258	229	258								
	Base Width (mm)	185										206																	
	Total Height (mm)	88.7	93.7	88.7	93.7	88.7	93.7	88.7	93.7	88.7	93.7	91.7	94.7	91.7	94.7	91.7	94.7	91.7	94.7	91.7	94.7								
Spec.	Continuous Force (N)	103		205		308		75		150		362		544		725		91		145									
	Peak Force (N)	289		579		868		300		600		1023		1535		2048		364		580									
	Stroke (mm)	100~1300 mm [50 mm increments]; 1300~2700 mm [100 mm increments]																											
	Encoder Resolution	Analog optical 0.1 μm / Digital optical 1 μm / Digital optical 0.1 μm / Digital magnetic 1 μm / Analog magnetic 1 μm / Absolute optical 0.5 μm / Hall encoder 1 μm / Absolute magnetic 1 μm																											
	Repeatability	Table 1																											
	Accuracy ^[*5]	Table 1																											
	Horizontal Straightness	±8 μm / 300 mm (Stroke below 1200 mm) ^[*2]																											
	Vertical straightness	±8 μm / 300 mm (Stroke below 1200 mm) ^[*2]																											
	Max. Velocity [m/s] ^[*3,4,6]	4.4 [5]	4.4 [5]	4.4 [5]	4.4 [5]	4.4 [5]	4.4 [5]	5	5	5	5	2.2 [4.9]	2.2 [4.9]	2.2 [4.9]	2.2 [4.9]	2.3 [5]	2.3 [5]	5	5	2.8	2.8								
Moving Mass (kg)	3.1	4	4.4	5.6	6.2	8.1	3	3.9	5	6.9	6.4	7.3	8.3	9.7	11	12.8	4.2	5.1	6	7.4									

Table 1. Encoder Repeatability and Accuracy

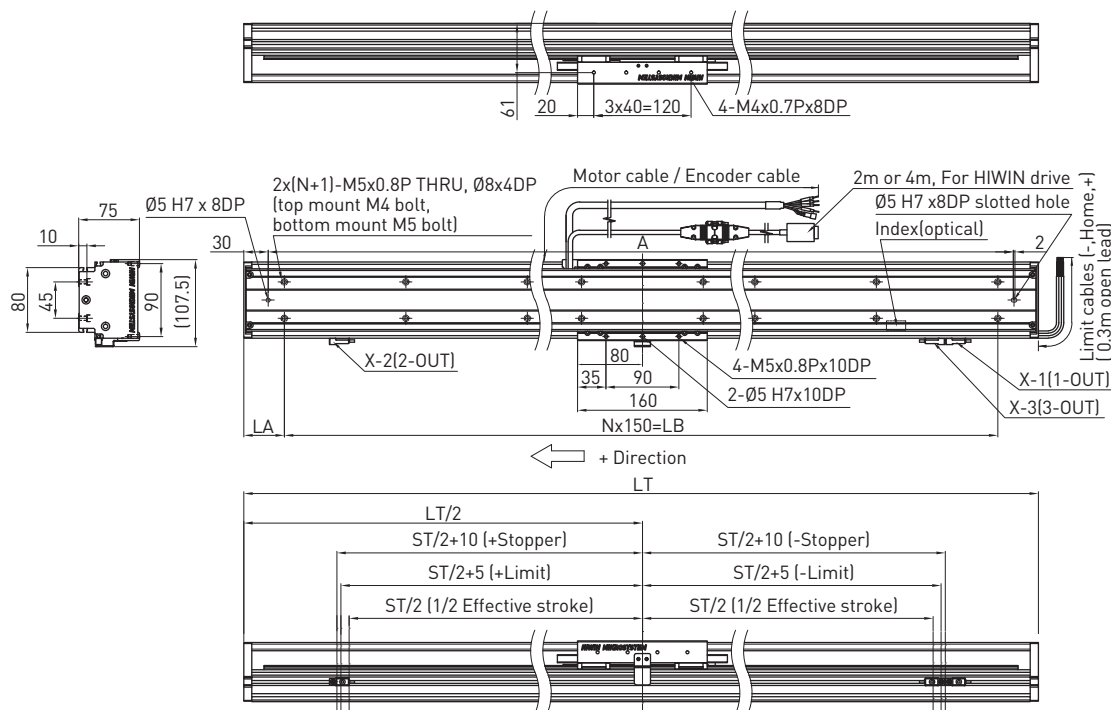
Type	Encoder	Repeatability (μm)	Accuracy (μm) ⁽¹⁵⁾
A	Analog optical 0.1 μm	±1	±2
D	Analog magnetic 1 μm	±3	±6
G	Digital optical 1 μm	±2	±4
K	Digital optical 0.1 μm	±1	±2
H	Hall encoder 1 μm	±7.5	-
P	Absolute optical 0.5 μm	±1	±2
R	Absolute magnetic 1 μm	±2	±4
V	Digital magnetic 1 μm	±2	±4

Note:

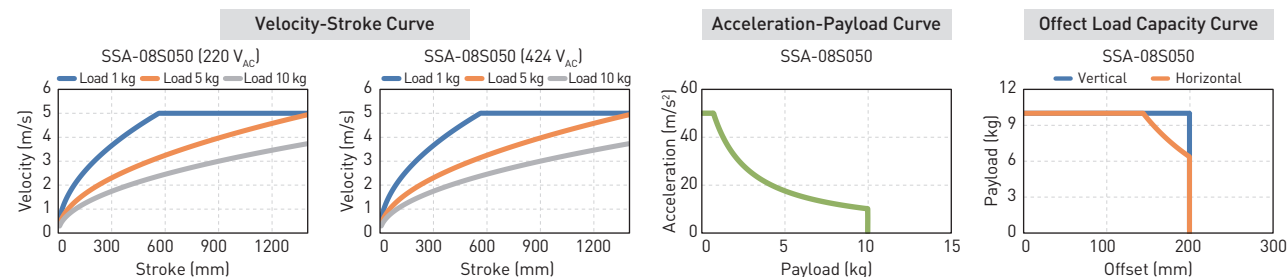
1. Measurement is performed on granite platform according to HIWIN solution.
2. Horizontal and vertical straightness can be applied only in single forcer axis.
3. Max. velocity will be determined by stroke, payload, encoder resolution etc.
4. With digital 0.1 μm resolution optical encoder, the max. velocity is 1.5 m/s.
5. Error compensation table may be provided if HIWIN drive is not included.
6. The Max. velocity of the high-voltage motor is in parentheses.

SSA-08 Series Single Forcer

SSA-08S050
Standard Type (S) | Stroke
100~1400



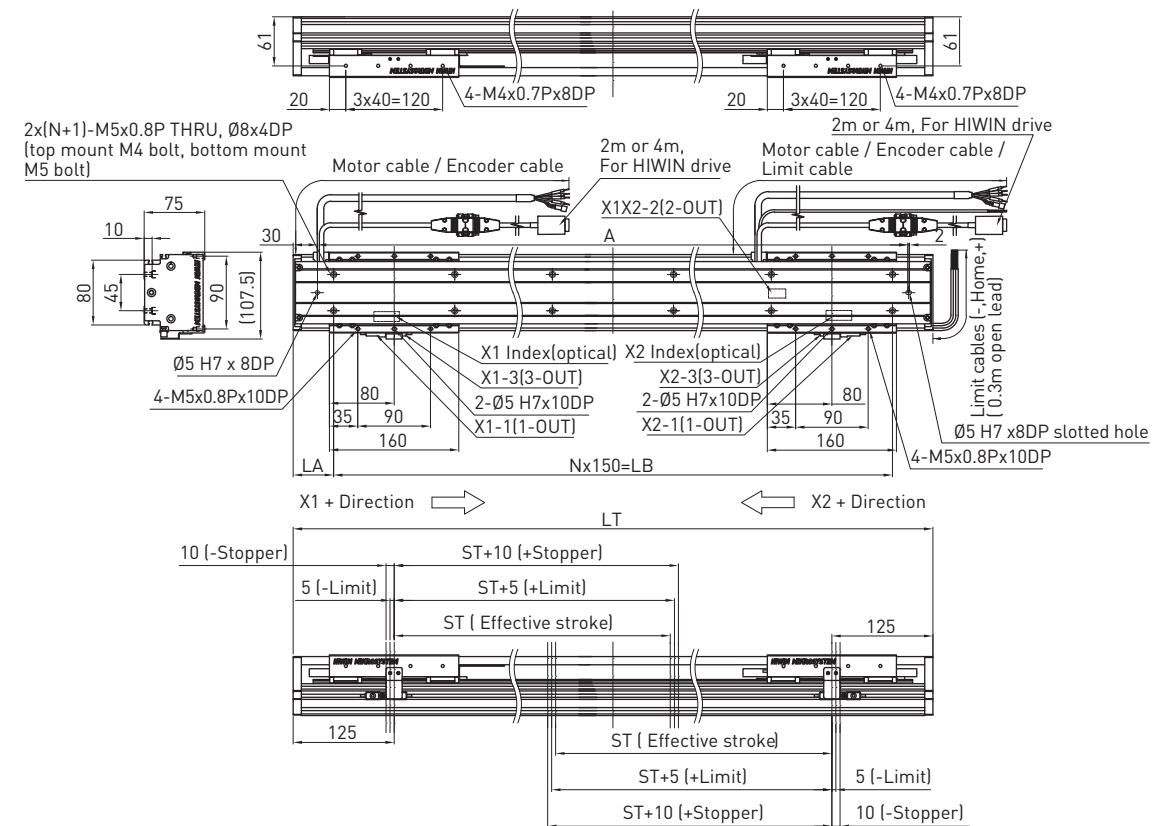
08S050-1-S																							
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
LT	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
N	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9
LA	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	75
LB	300	300	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350
A	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389
Weight (kg)	6.3	6.8	7.2	7.6	8.0	8.5	8.8	9.2	9.6	10.0	10.5	10.9	11.2	11.6	12.1	12.5	12.9	13.3	13.6	14.1	14.5	14.9	15.3



- Note:
- When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
 - The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
 - To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
 - For a schematic of offset load, please refer to page 12.

SSA-08 Series Dual Forcers

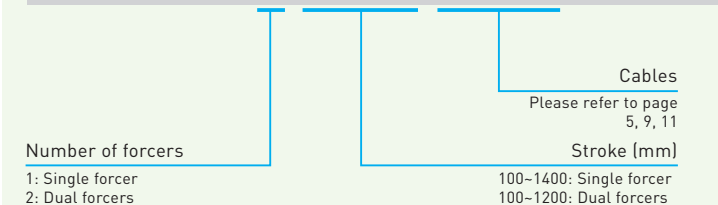
SSA-08S050
Standard Type (S) | Stroke
100~1200



08S050-2-S																							
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
LT	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
N	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10
LA	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500
A	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
Weight (kg)	9.2	9.6	10.0	10.5	10.9	11.3	11.6	12.1	12.5	12.9	13.3	13.8	14.1	14.5	14.9	15.3	15.8	16.2	16.5	16.9	17.4	17.8	18.2

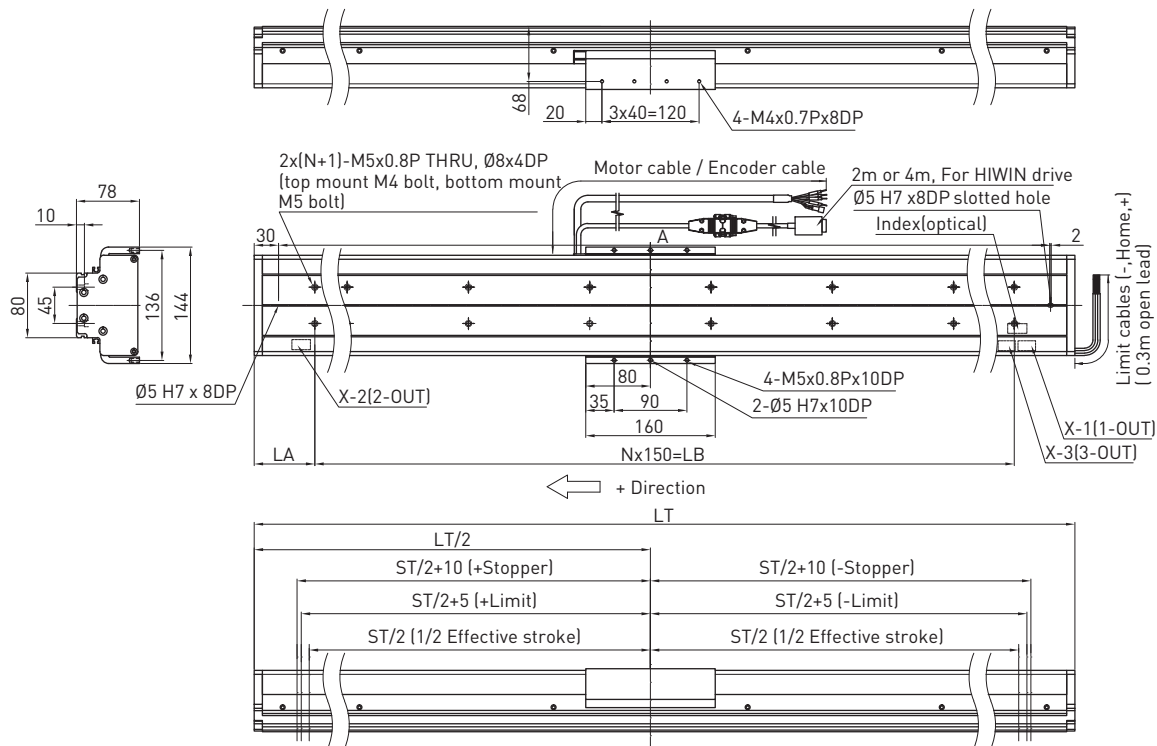
Model Description

LMSSA-08S050-□-□□□□-□□.□□-S-B-A0000

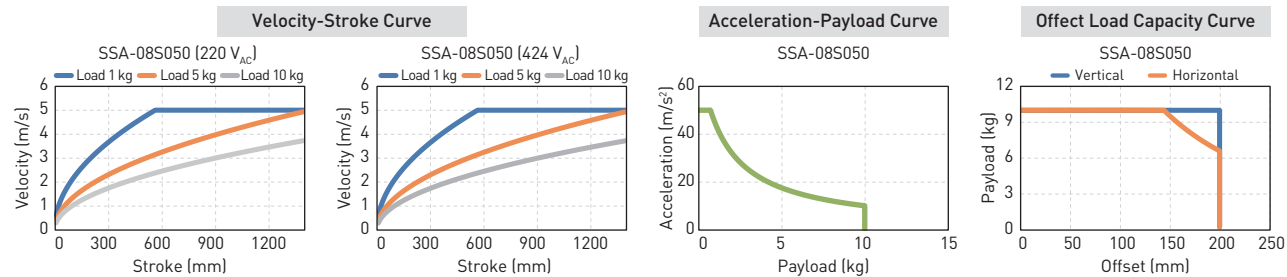


SSA-08 Series Single Forcer

SSA-08S050 High Dustproof Type (M)	Stroke 100~1400
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08S050-1-M																											
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1400	
LT	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1650	
N	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	
LA	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	75	
LB	300	300	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	
A	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1589	
Weight (kg)	6.8	7.3	7.8	8.2	8.7	9.1	9.5	9.9	10.4	10.9	11.3	11.8	12.1	12.6	13.1	13.5	14.0	14.4	14.8	15.2	15.7	16.2	16.6	17.1	17.4	18.3	

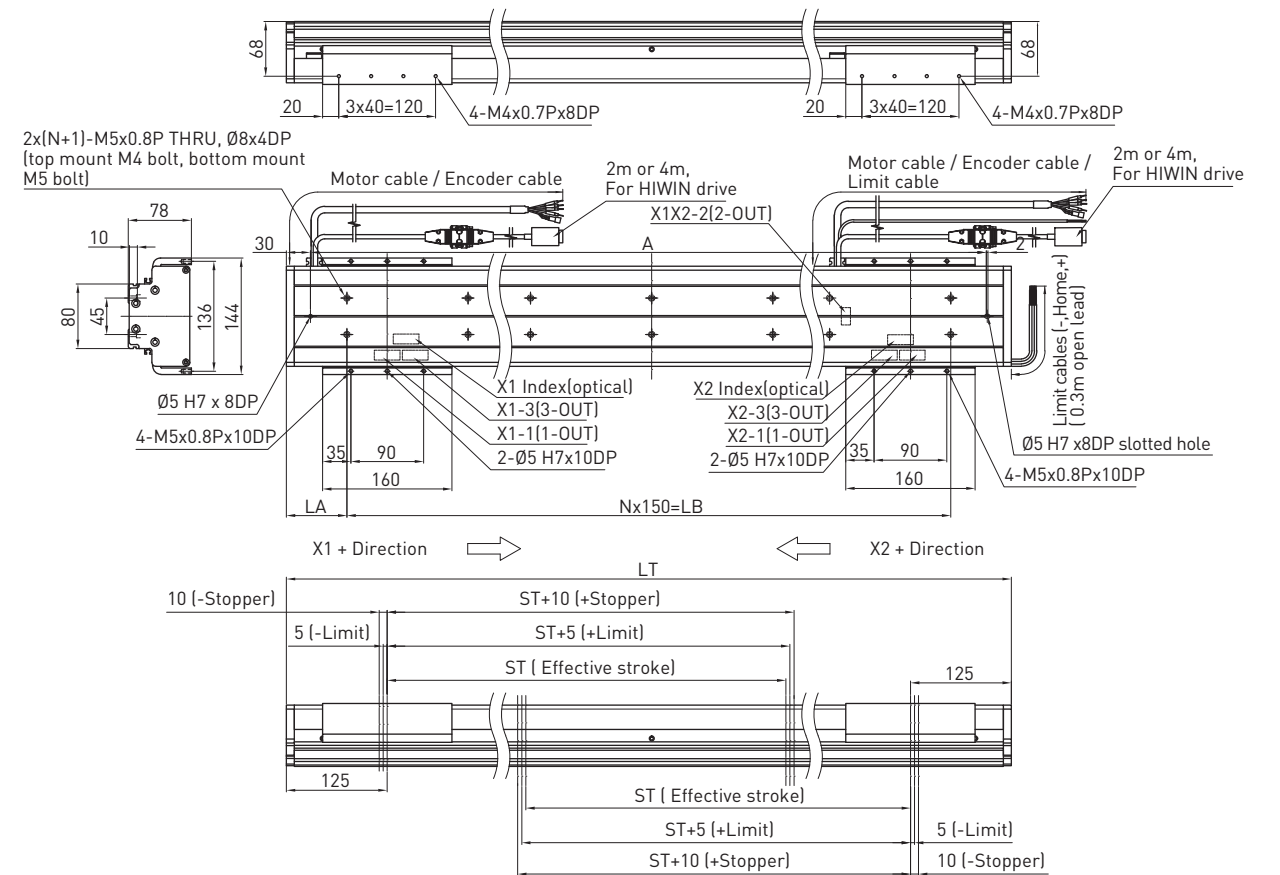


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-08 Series Dual Forcers

SSA-08S050 High Dustproof Type (M)	Stroke 100~1200
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08S050-2-M																							
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
LT	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
N	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10
LA	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500
A	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
Weight (kg)	10.0	10.5	10.9	11.4	11.9	12.3	12.7	13.1	13.6	14.0	14.5	15.0	15.3	15.8	16.2	16.7	17.2	17.6	18.0	18.4	18.9	19.3	19.8

Model Description

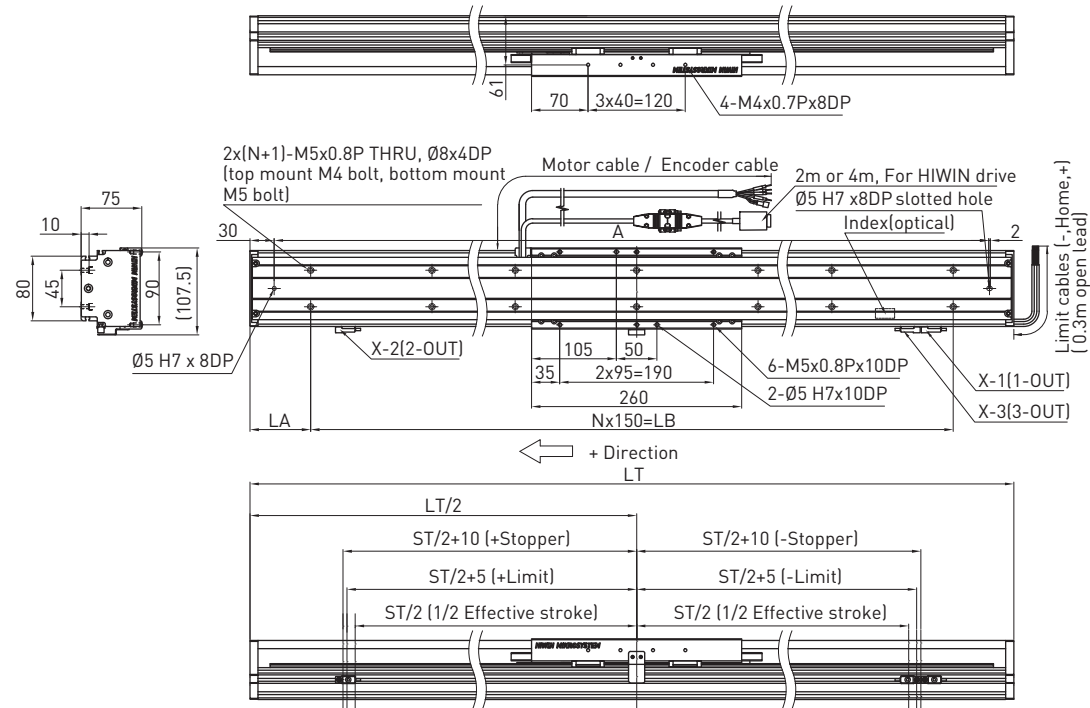
LMSSA-08S050-□-□□□□-□□.□□-M-B-A0000

Number of forcers	1: Single forcer 2: Dual forcers		<p>Cables</p> <p>Please refer to page 5, 9, 11</p> <p>Stroke [mm]</p> <p>100–1400: Single forcer 100–1200: Dual forcers</p>
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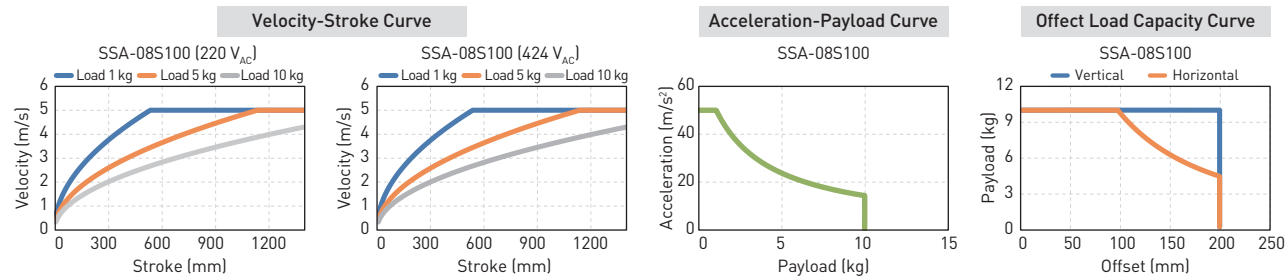
SSA-08 Series Single Forcer

SSA-08S100
Standard Type (S)

Stroke
100~1300



08S100-1-S																											
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300		
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650		
N	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10		
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75		
LB	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500		
A	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589		
Weight (kg)	8.1	8.5	8.9	9.4	9.8	10.1	10.5	10.9	11.4	11.8	12.2	12.5	13.0	13.4	13.8	14.2	14.7	15.0	15.4	15.8	16.2	16.7	17.1	17.4	17.8		



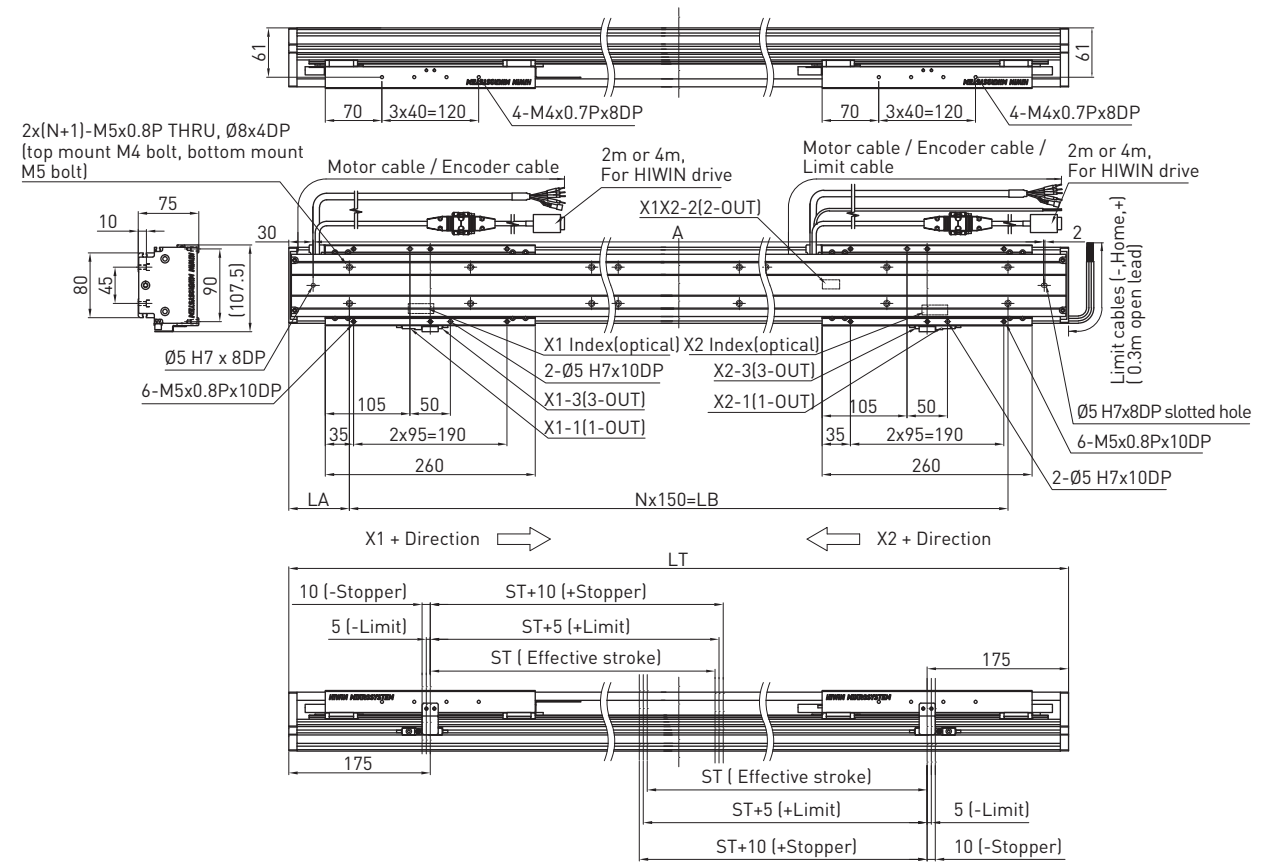
Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-08 Series Dual Forcers

SSA-08S100
Standard Type (S)

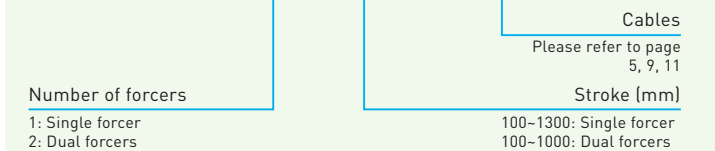
Stroke
100~1000



085100-2-S																			
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
N	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500
A	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
Weight [kg]	12.5	12.9	13.3	13.7	14.0	14.5	14.9	15.3	15.8	16.2	16.5	16.9	17.3	17.8	18.2	18.6	18.9	19.3	19.8

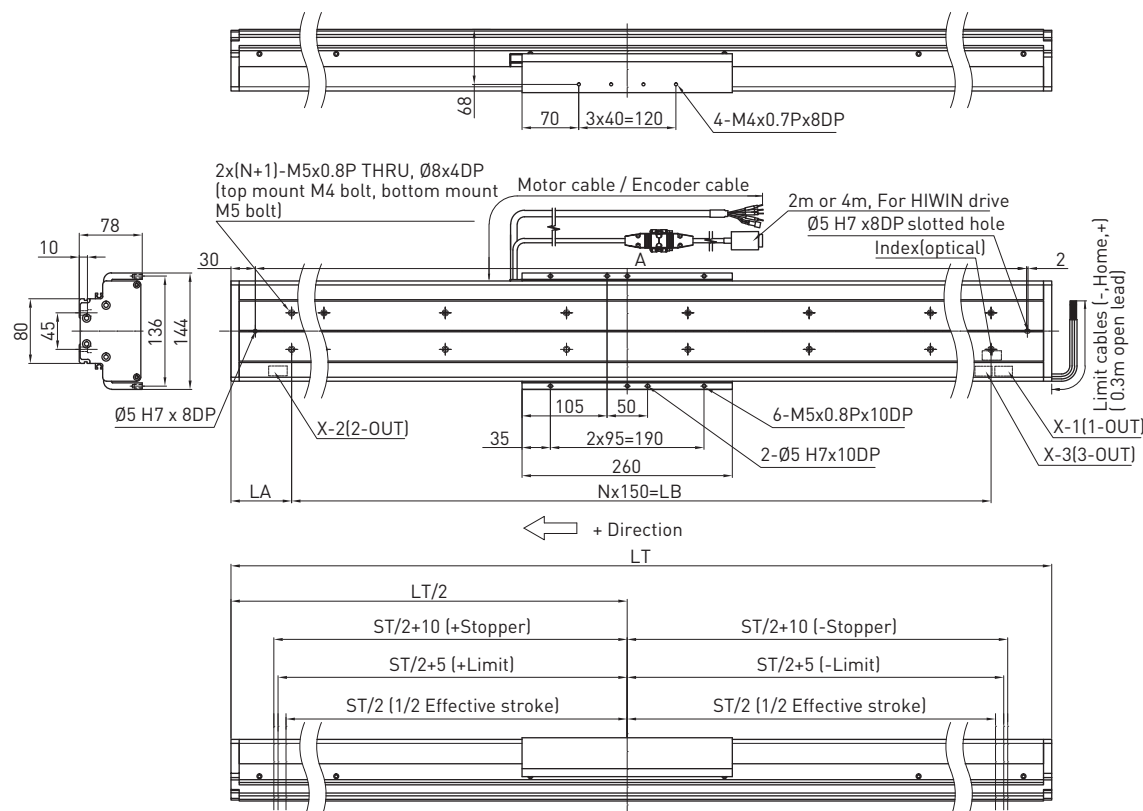
Model Description

LMSSA-08S100-□-□□□□-□□.□□-S-B-A0000

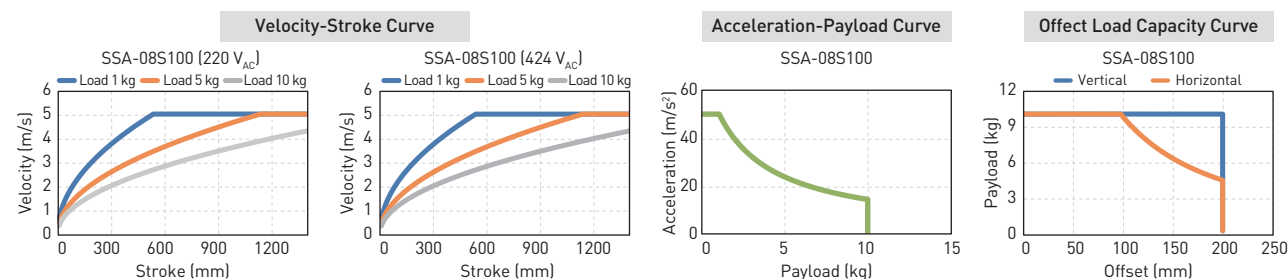


SSA-08 Series Single Forcer

SSA-08S100 High Dustproof Type (M)	Stroke 100~1300
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08S100-1-M																									
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
N	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500
A	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
Weight (kg)	9.0	9.4	9.9	10.3	10.8	11.1	11.6	12.1	12.5	13.0	13.4	13.8	14.3	14.7	15.2	15.6	16.1	16.4	16.9	17.4	17.8	18.3	18.7	19.1	19.5

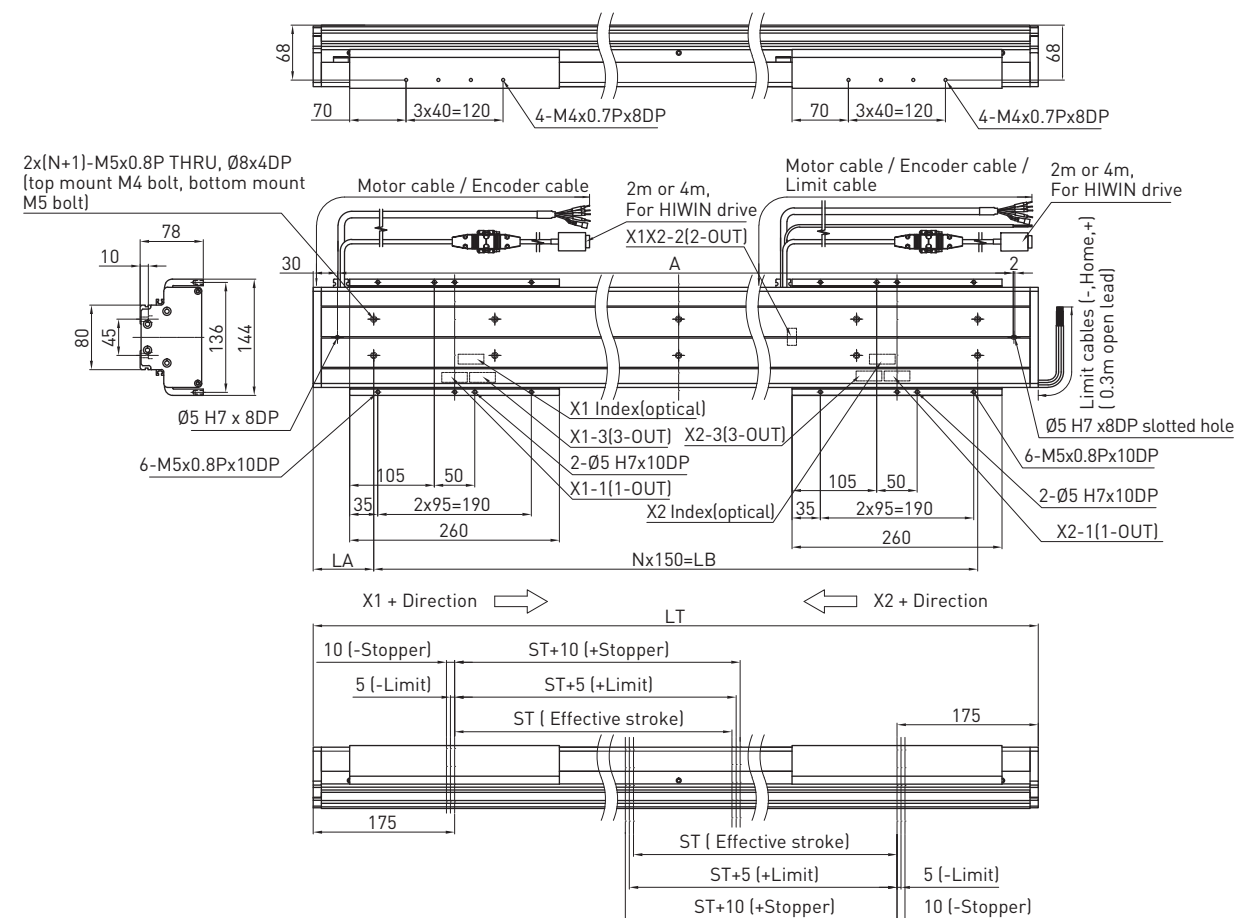


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-08 Series Dual Forcers

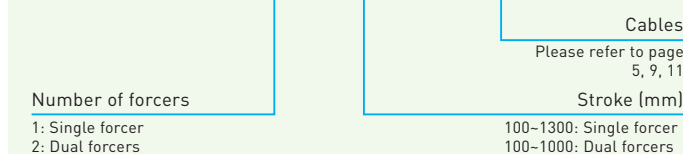
SSA-08S100 High Dustproof Type (M)	Stroke 100~1000
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08S100-2-M																				
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	
N	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	
LB	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500	
A	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589	
Weight (kg)	14.0	14.5	15.0	15.4	15.8	16.2	16.7	17.1	17.6	18.1	18.4	18.9	19.3	19.8	20.2	20.7	21.1	21.5	22.0	

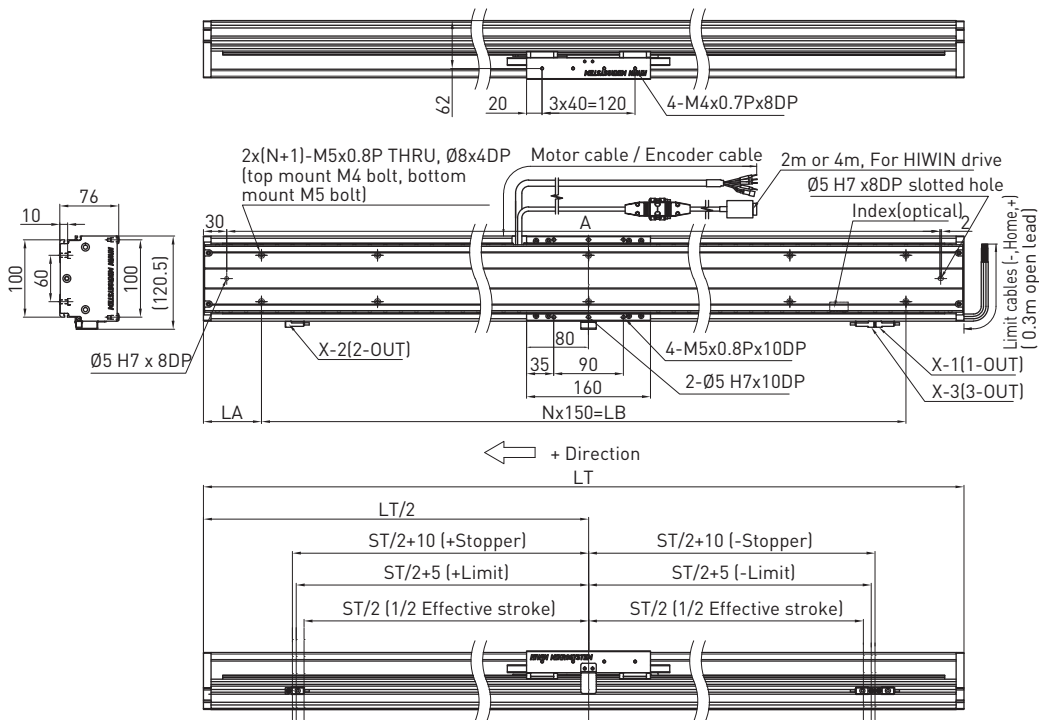
Model Description

LMSSA-08S100-□-□□□□-□□.□□-M-B-A0000



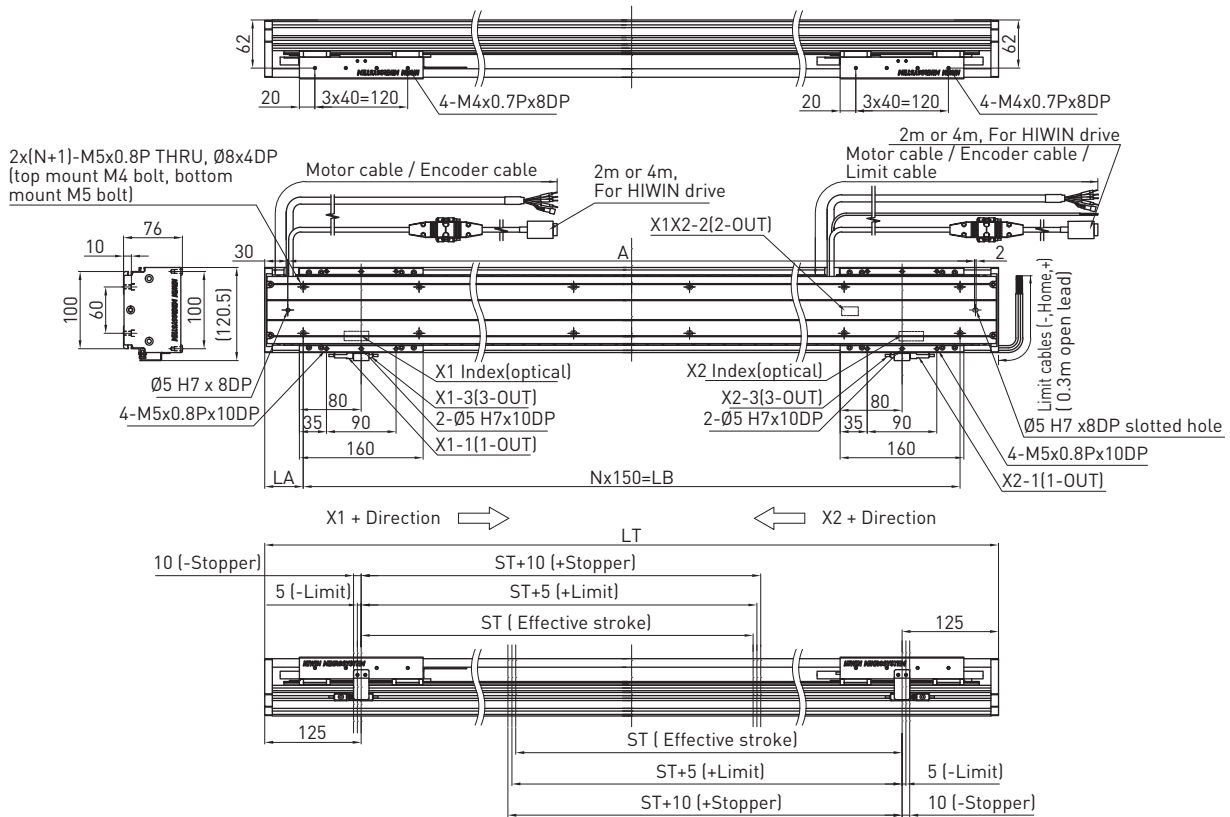
SSA-10 Series Single Forcer

SSA-10S100
Standard Type (S) | Stroke
100~1400



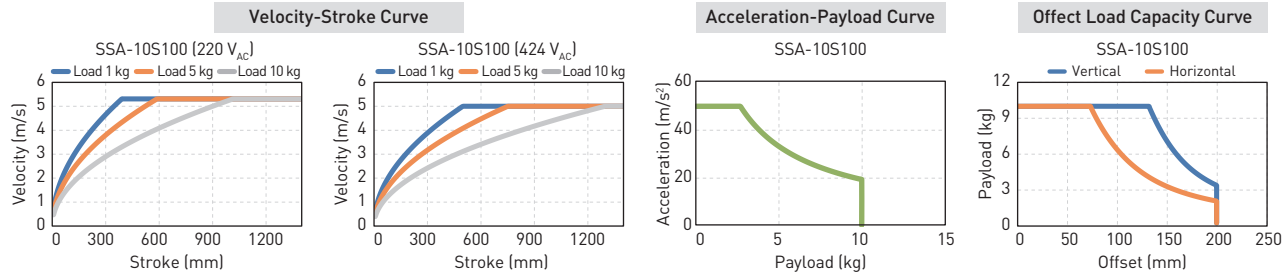
SSA-10 Series Dual Forcers

SSA-10S100
Standard Type (S) | Stroke
100~1200



10S100-1-S																							
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
LT	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
N	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9
LA	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	75
LB	300	300	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350
A	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389
Weight (kg)	7.4	7.9	8.5	8.8	9.3	9.9	10.4	10.9	11.5	11.8	12.3	12.9	13.4	13.9	14.5	14.8	15.3	15.9	16.4	16.9	17.5	18.3	18.9

10S100-2-S																							
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
LT	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
N	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10
LA	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500
A	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
Weight (kg)	10.8	11.3	11.8	12.2	12.7	13.3	13.8	14.3	14.8	15.2	15.7	16.3	16.8	17.3	17.8	18.2	18.7	19.3	19.8	20.3	20.8	21.2	21.7



Model Description

LMSSA-10S100-□-□□□□-□□.□□-S-B-A0000

Cables
Please refer to page 5, 9, 11

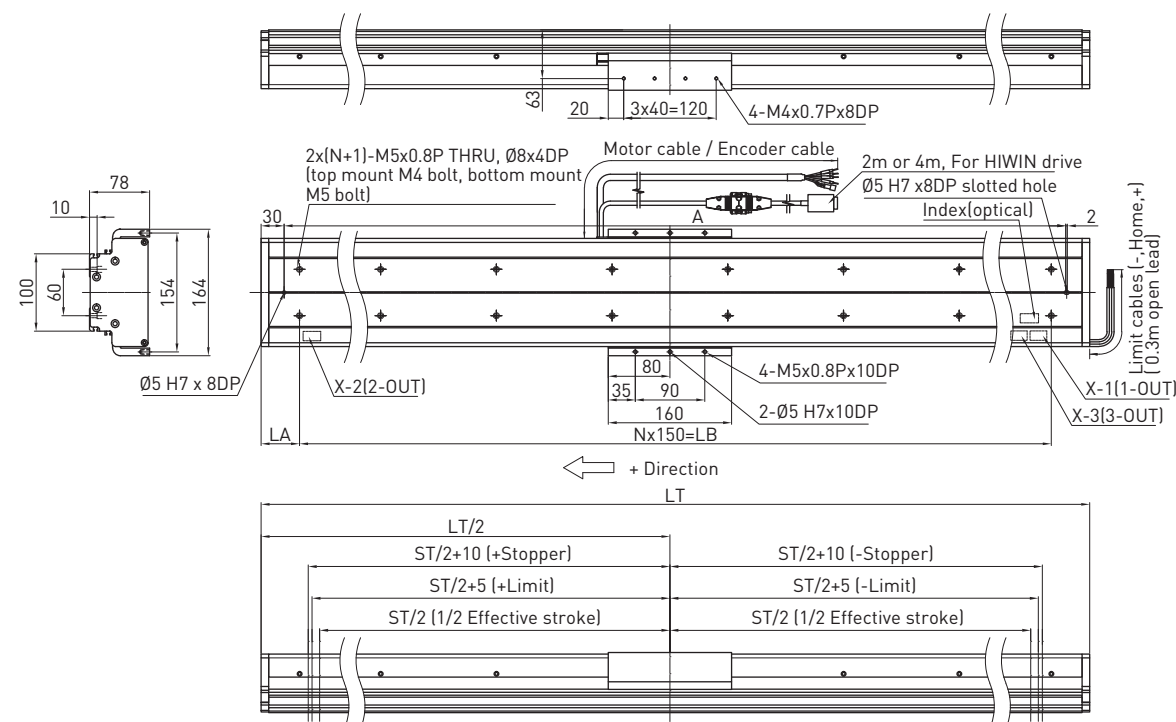
Number of forcers
1: Single forcer
2: Dual forcers

Stroke (mm)
100~1400: Single forcer
100~1200: Dual forcers

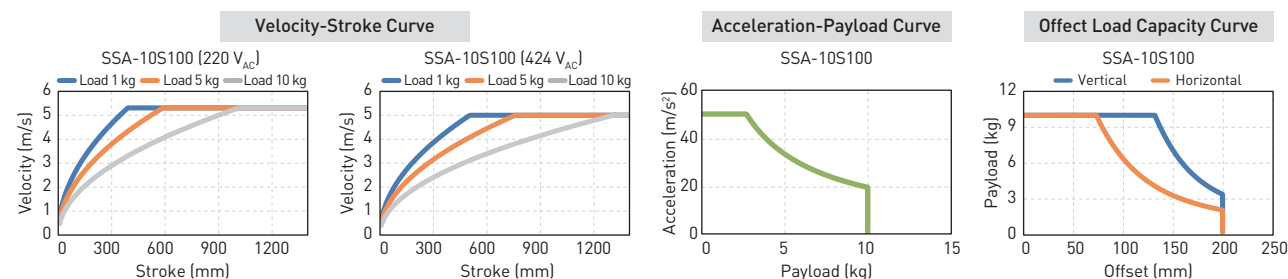
- Note:
- When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
 - The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
 - To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
 - For a schematic of offset load, please refer to page 12.

SSA-10 Series Single Forcer

SSA-10S100 High Dustproof Type (M)	Stroke 100~1400
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10S100-1-M																											
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1400	
LT	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1650	
N	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	
LA	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	75	
LB	300	300	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	
A	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1589	
Weight (kg)	7.5	8.0	8.5	8.9	9.4	9.9	10.4	10.9	11.4	11.7	12.2	12.7	13.2	13.7	14.2	14.5	15.0	15.5	16.1	16.6	17.1	17.4	17.9	18.4	18.9	19.9	

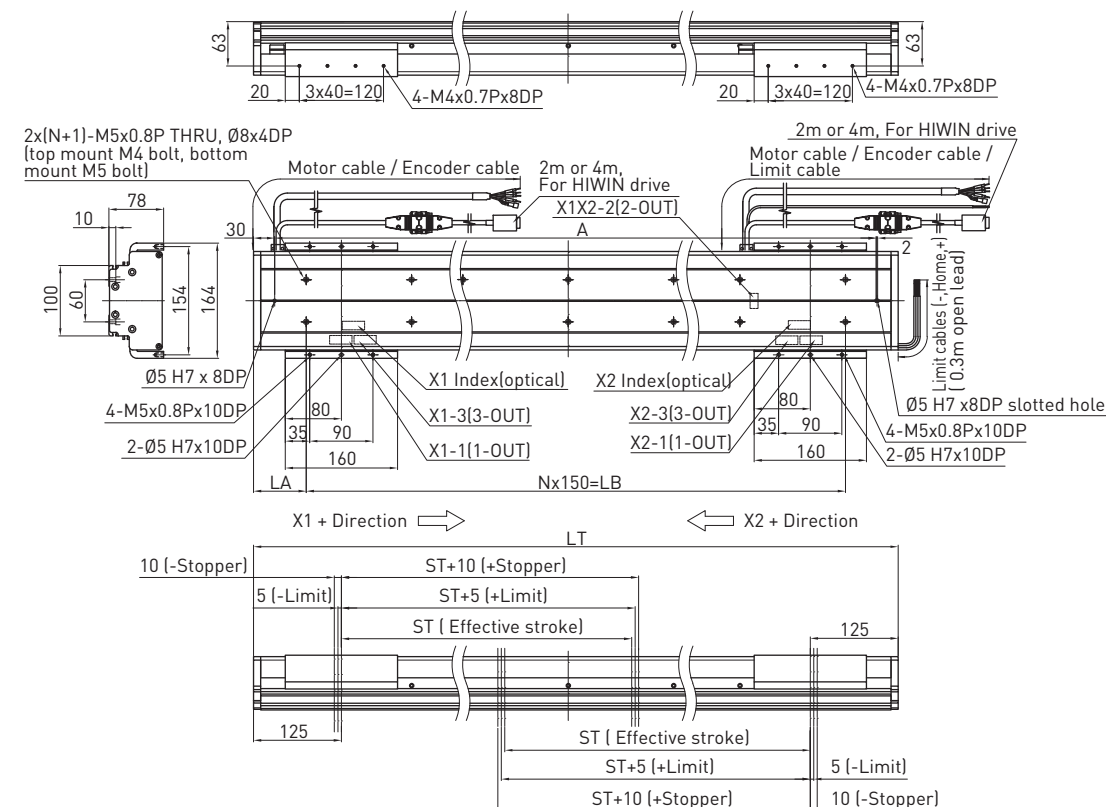


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-10 Series Dual Forcers

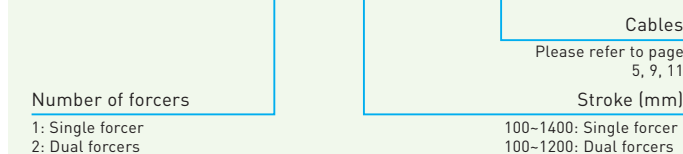
SSA-10S100 High Dustproof Type (M)	Stroke 100~1200
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10S100-2-M																							
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
LT	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
N	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10
LA	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500
A	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
Weight (kg)	11.0	11.5	12.0	12.3	12.8	13.3	13.8	14.3	14.8	15.2	15.7	16.2	16.7	17.2	17.7	18.0	18.5	19.0	19.5	20.0	20.5	20.9	21.4

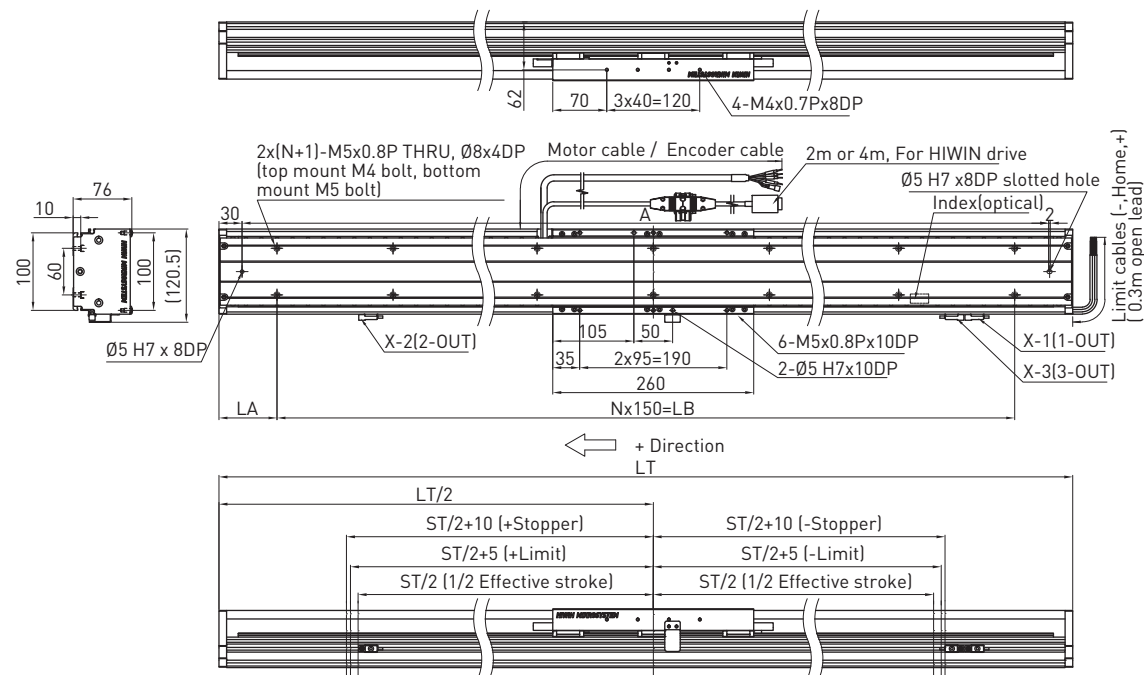
Model Description

LMSSA-10S100-□-□□□□-□□.□□-M-B-A0000



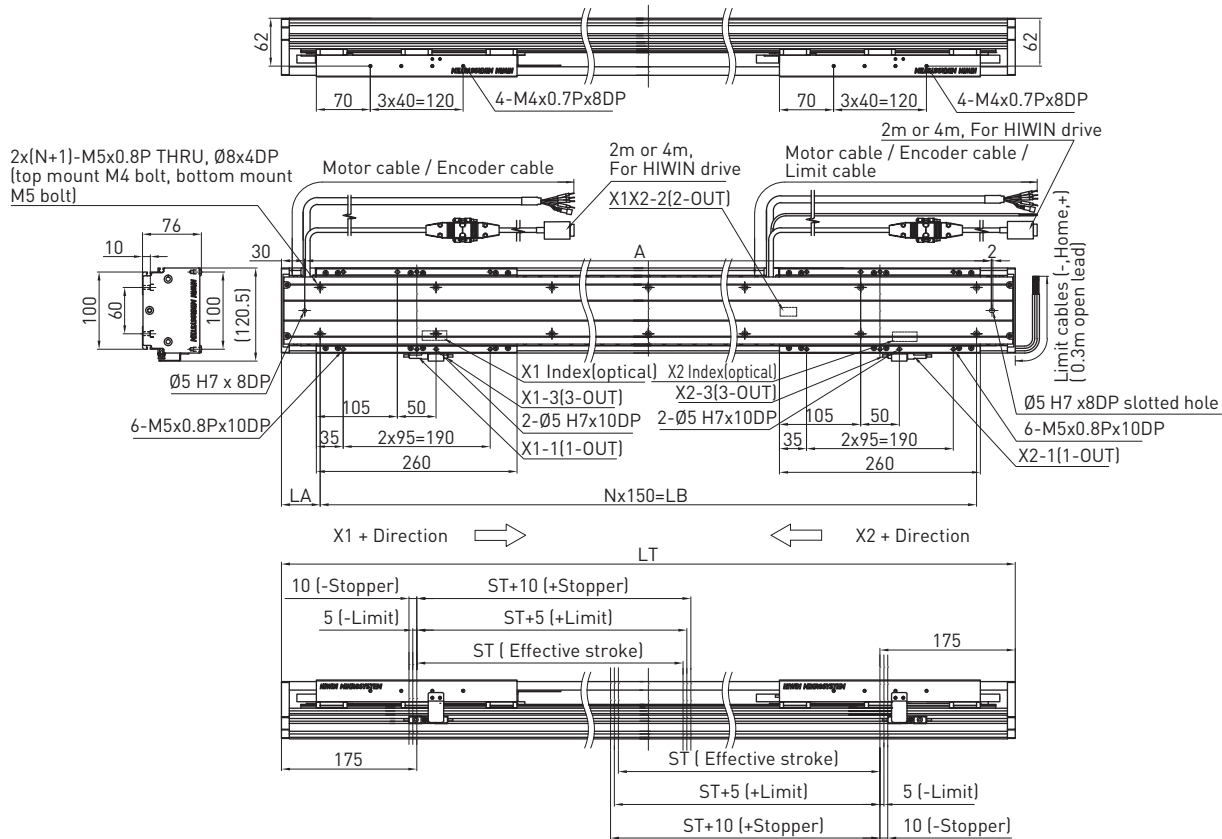
SSA-10 Series Single Forcer

SSA-10S200
Standard Type (S) | Stroke
100~1300



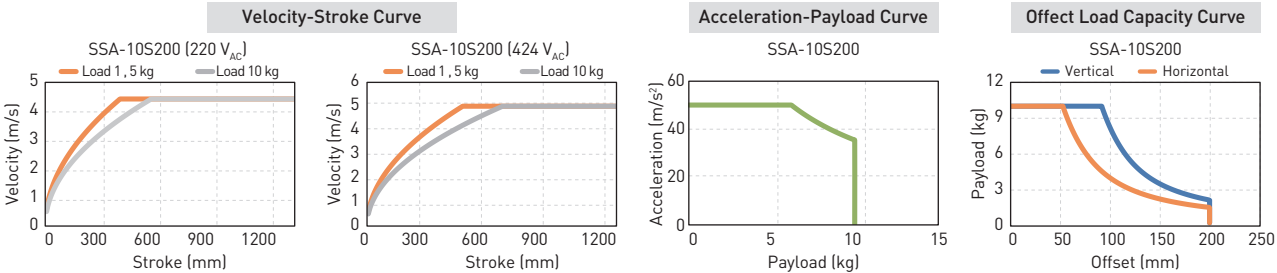
SSA-10 Series Dual Forcers

SSA-10S200
Standard Type (S) | Stroke
100~1000



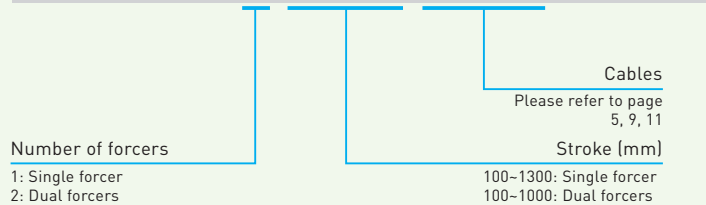
10S200-1-S																							
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
N	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25
LB	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500
A	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1539
Weight (kg)	9.6	10.1	10.5	11.0	11.5	12.0	12.6	13.1	13.4	14.0	14.5	15.0	15.6	16.1	16.4	17.0	17.5	18.0	18.6	19.1	19.4	20.0	21.0

10S200-2-S																							
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000				
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650				
N	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10				
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75				
LB	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500				
A	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589				
Weight (kg)	14.9	15.5	16.0	16.5	17.0	17.4	17.9	18.5	19.0	19.5	20.0	20.4	20.9	21.5	22.0	22.5	23.0	23.4	23.9				



Model Description

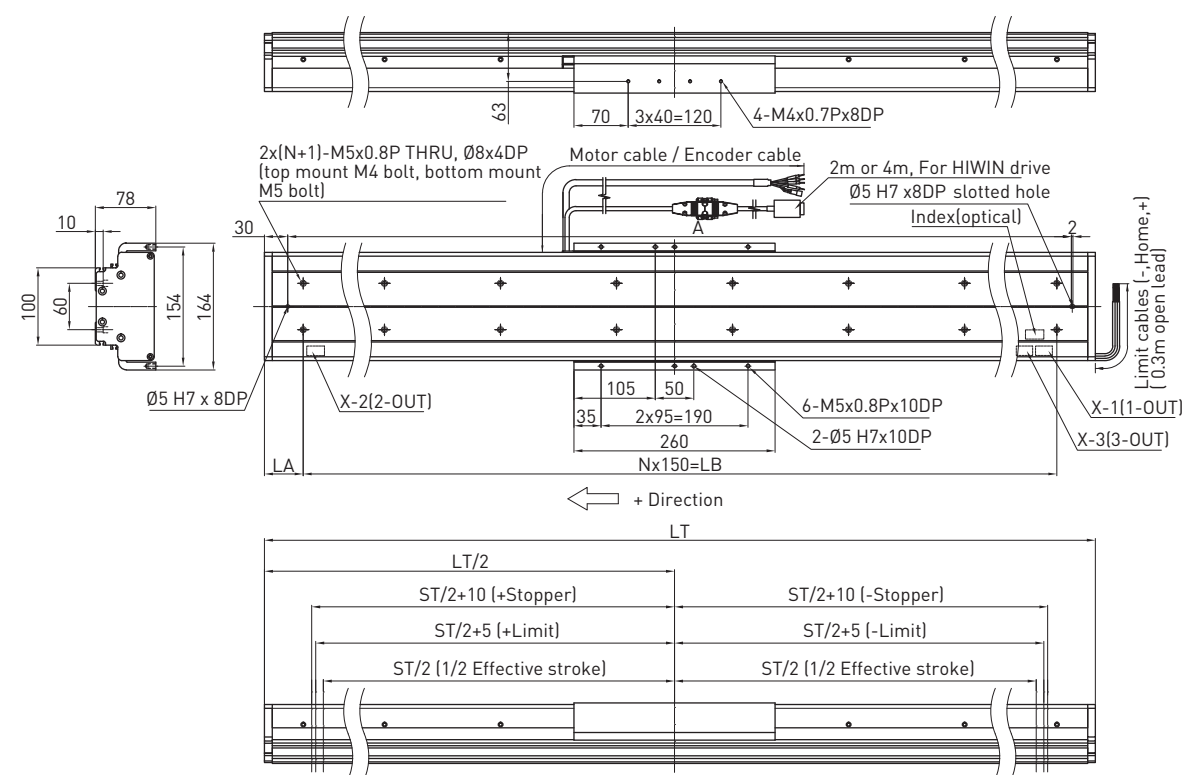
LMSSA-10S200-□-□□□□-□□.□□-S-B-A0000



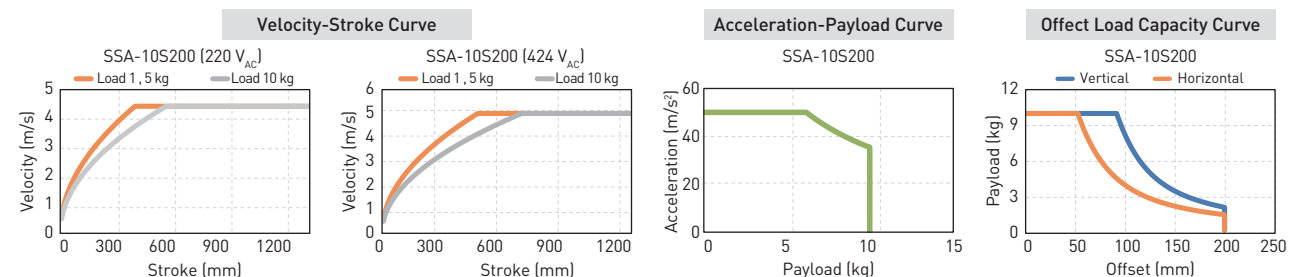
- Note:
- When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
 - The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
 - To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
 - For a schematic of offset load, please refer to page 12.

SSA-10 Series Single Forcer

SSA-10S200 High Dustproof Type (M)	Stroke 100~1300
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10S200-1-M																									
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
N	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500
A	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
Weight (kg)	9.8	10.3	10.7	11.2	11.7	12.2	12.7	13.2	13.5	14.0	14.5	15.0	15.5	16.0	16.3	16.8	17.4	17.9	18.4	18.9	19.2	19.7	20.2	20.7	21.2

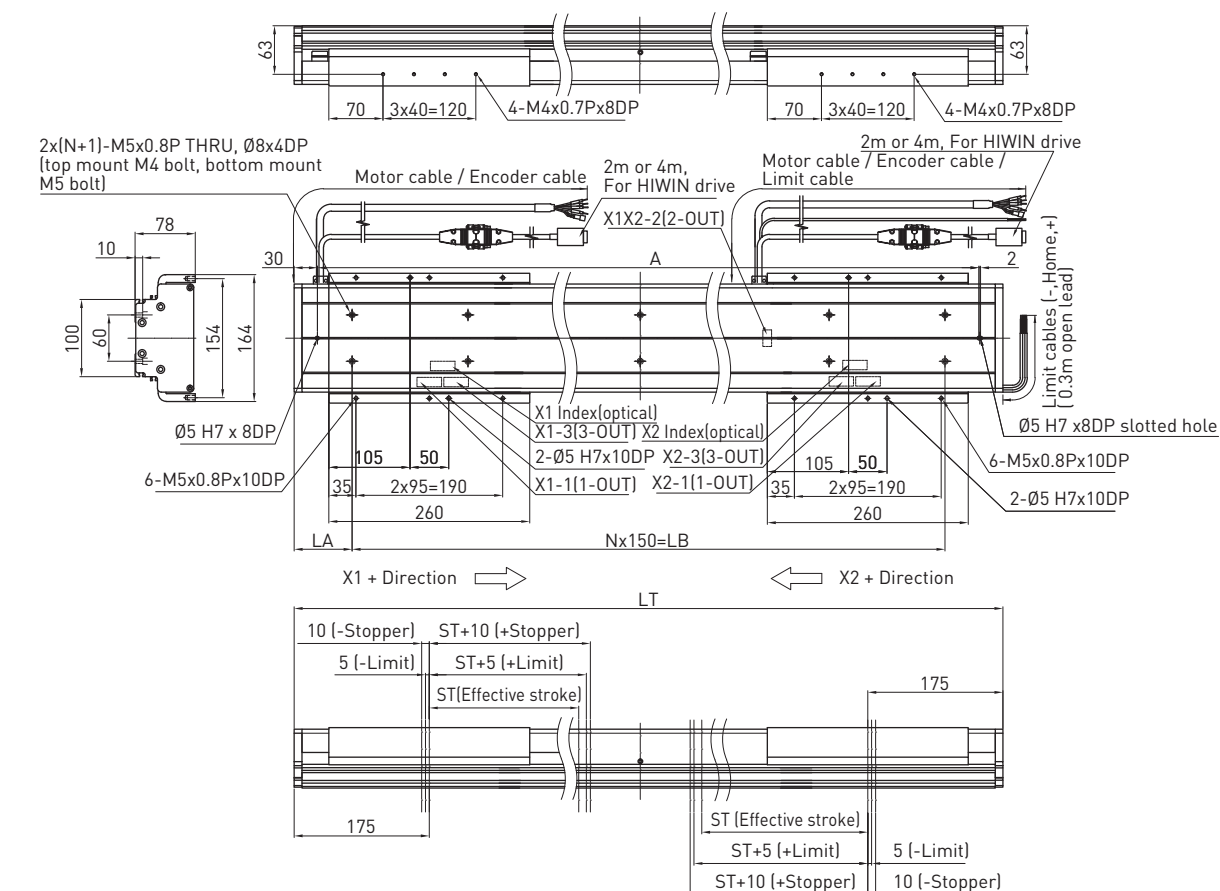


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-10 Series Dual Forcers

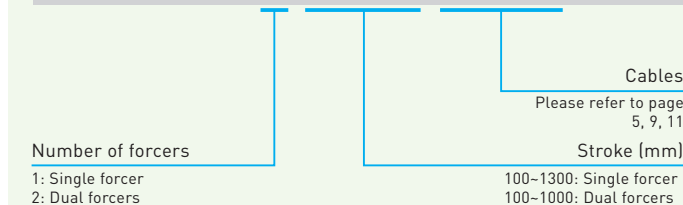
SSA-10S200 High Dustproof Type (M)	Stroke 100~1000
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10S200-2-M																			
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
N	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500
A	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589
Weight (kg)	15.4	15.9	16.4	16.9	17.4	17.8	18.3	18.8	19.3	19.8	20.3	20.6	21.1	21.6	22.1	22.6	23.1	23.5	24.0

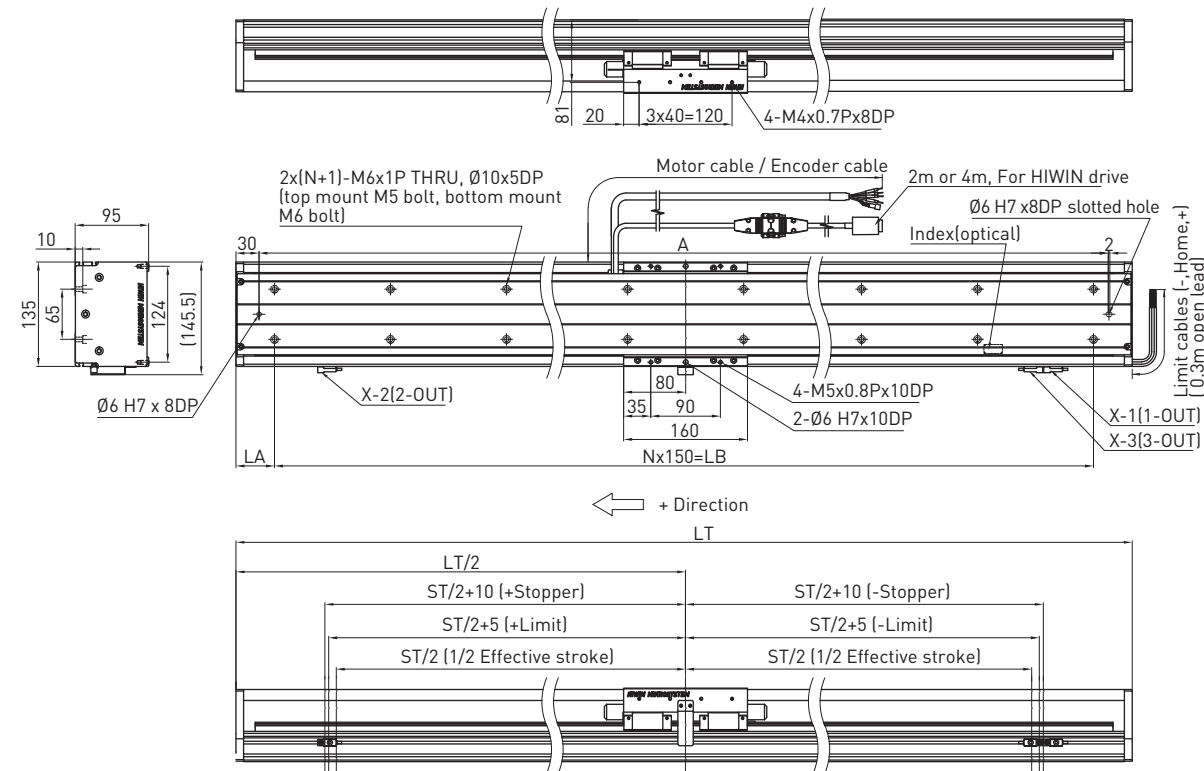
Model Description

LMSSA-10S200-□-□□□□-□□.□□-M-B-A0000

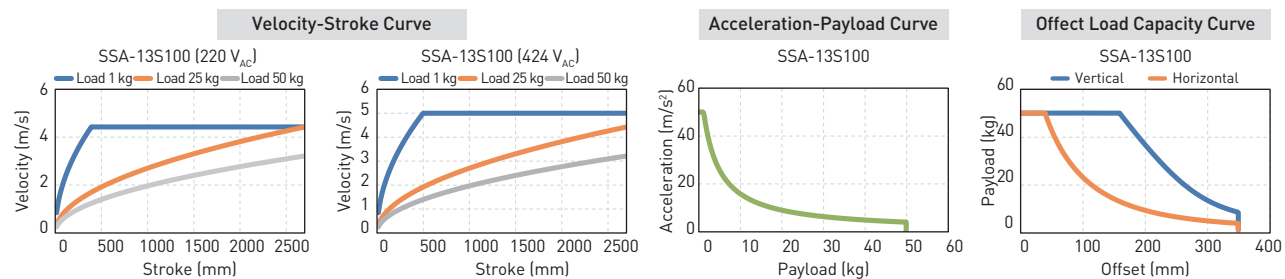


SSA-13 Series Single Forcer

 SSA-13S100
 Standard Type (S)

 Stroke
 100~2700


13S100-1-S																	
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
LT	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150
N	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7
LA	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50
LB	300	300	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050
A	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089
Weight (kg)	10.6	11.4	12.2	12.9	13.7	14.5	15.3	16.1	16.9	17.6	18.4	19.2	20.0	20.9	21.7	22.3	23.1
Stroke (ST)	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
LT	1350	1400	1450	1500	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750
N	8	9	9	9	10	10	11	12	12	13	14	14	15	16	16	17	18
LA	75	25	50	75	25	75	50	25	75	50	25	75	50	25	75	50	25
LB	1200	1350	1350	1350	1500	1500	1650	1800	1800	1950	2100	2100	2250	2400	2400	2550	2700
A	1289	1339	1389	1439	1489	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689
Weight (kg)	26.4	27.1	27.9	28.7	29.5	31.1	32.6	34.2	35.9	37.3	39.0	40.6	42.1	43.7	45.3	46.8	48.4

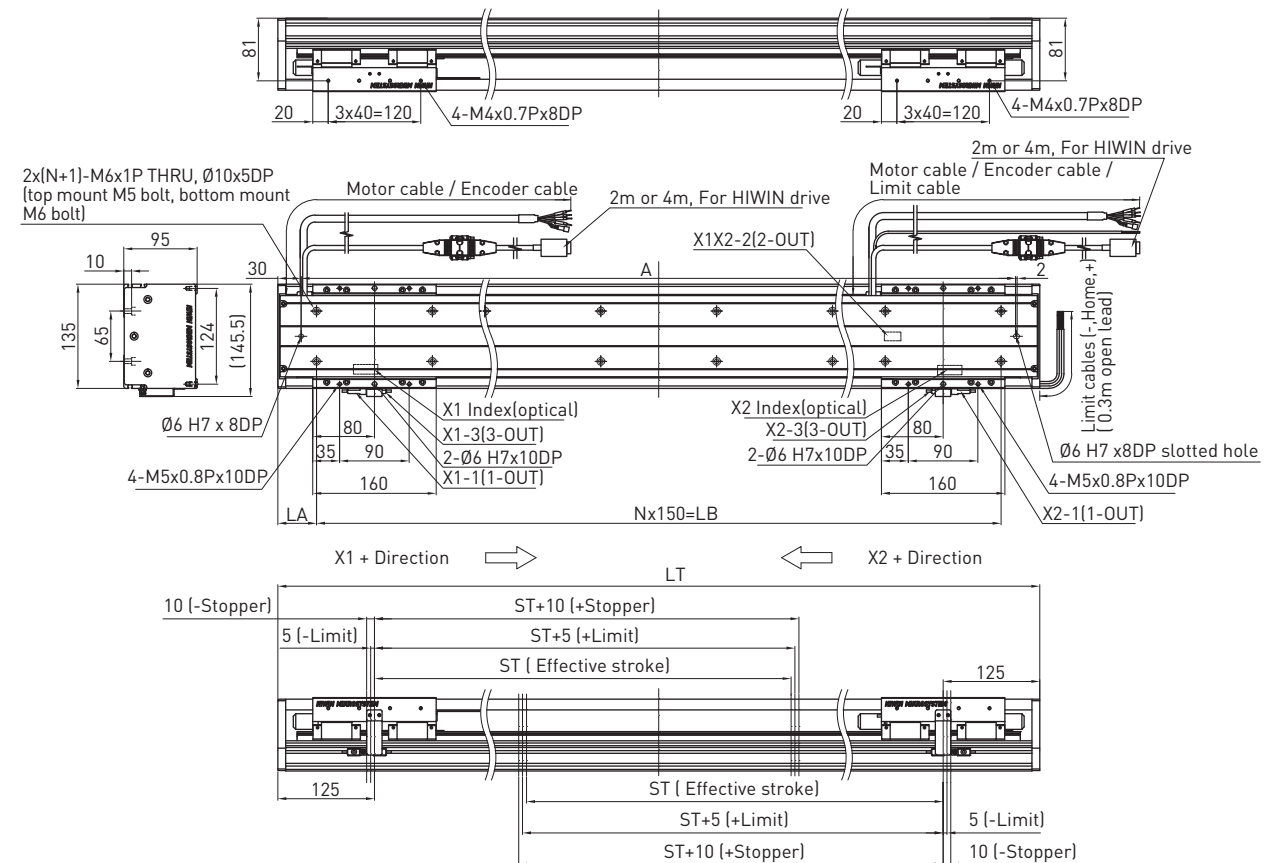


Note:

- When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
- The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
- To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
- For a schematic of offset load, please refer to page 12.

SSA-13 Series Dual Forcers

 SSA-13S100
 Standard Type (S)

 Stroke
 100~2500


13S100-2-S																	
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
LT	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
N	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	9
LA	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1350
A	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1389
Weight (kg)	16.1	16.9	17.8	18.4	19.2	20.0	20.9	21.7	22.5	23.1	24.0	24.8	25.6	26.4	27.2	27.9	28.7
Stroke (ST)	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
LT	1500	1550	1600	1650	1700	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850
N	9	10	10	10	11	11	12	12	13	14	14	15	16	16	17	18	19
LA	75	25	50	75	25	50	25	75	50	25	75	50	25	75	50	25	75
LB	1350	1500	1500	1500	1650	1650	1800	1800	1950	2100	2100	2250	2400	2400	2550	2700	2850
A	1439	1489	1539	1589	1639	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789
Weight (kg)	31.1	32.0	32.6	33.4	34.2	35.1	36.7	38.2	39.8	41.4	42.9	44.5	46.2	47.6	49.3	50.9	52.4

Model Description

LMSSA-13S100-□-□□□□-□□.□□-S-B-A0000

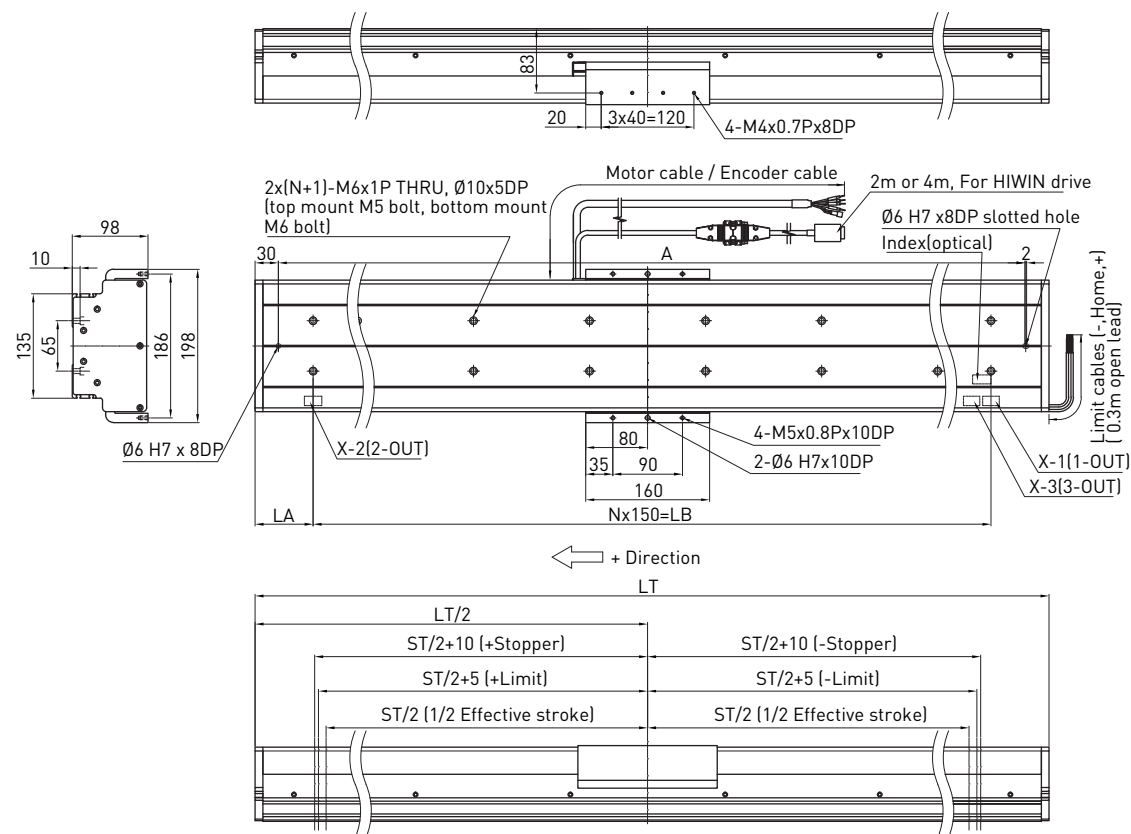
Number of forcers
 1: Single forcer
 2: Dual forcers

Stroke (mm)
 100~2700: Single forcer
 100~2500: Dual forcers

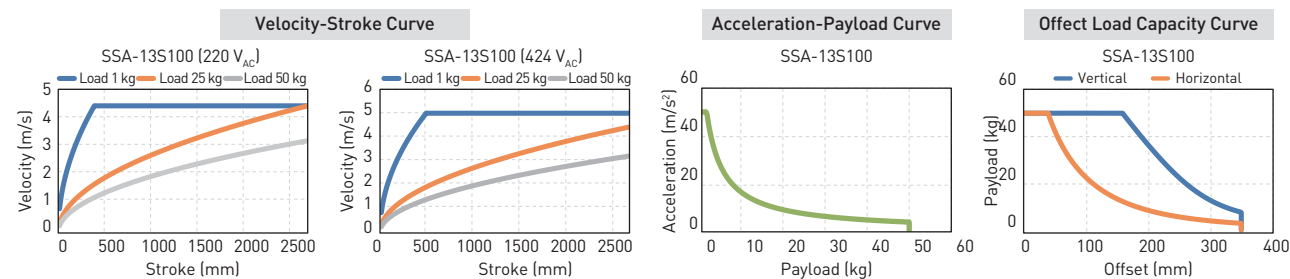
Cables
 Please refer to page 5, 9, 11

SSA-13 Series Single Forcer

SSA-13S100 High Dustproof Type (M)	Stroke 100~2700
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13S100-1-M																					
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
LT	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	
N	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	
LA	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	
LB	300	300	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	
A	289	339	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	
Weight (kg)	11.4	12.3	13.1	13.8	14.6	15.5	16.3	17.2	18.0	18.7	19.5	20.4	21.2	22.0	22.9	23.6	24.4	25.2	26.1	26.9	
Stroke (ST)	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	-	
LT	1350	1400	1450	1500	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-	
N	8	9	9	9	10	10	11	12	12	13	14	14	15	16	16	17	18	18	19	-	
LA	75	25	50	75	25	75	50	25	75	50	25	75	50	25	75	50	25	75	50	-	
LB	1200	1350	1350	1350	1500	1500	1650	1800	1800	1950	2100	35.2	2250	2400	2400	2550	2700	2700	2850	-	
A	1289	1339	1389	1439	1489	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	-	
Weight (kg)	27.7	28.4	29.3	30.1	30.9	32.6	34.1	35.8	37.5	39.0	40.7	42.4	43.9	45.6	47.2	48.8	50.4	52.1	53.6	-	

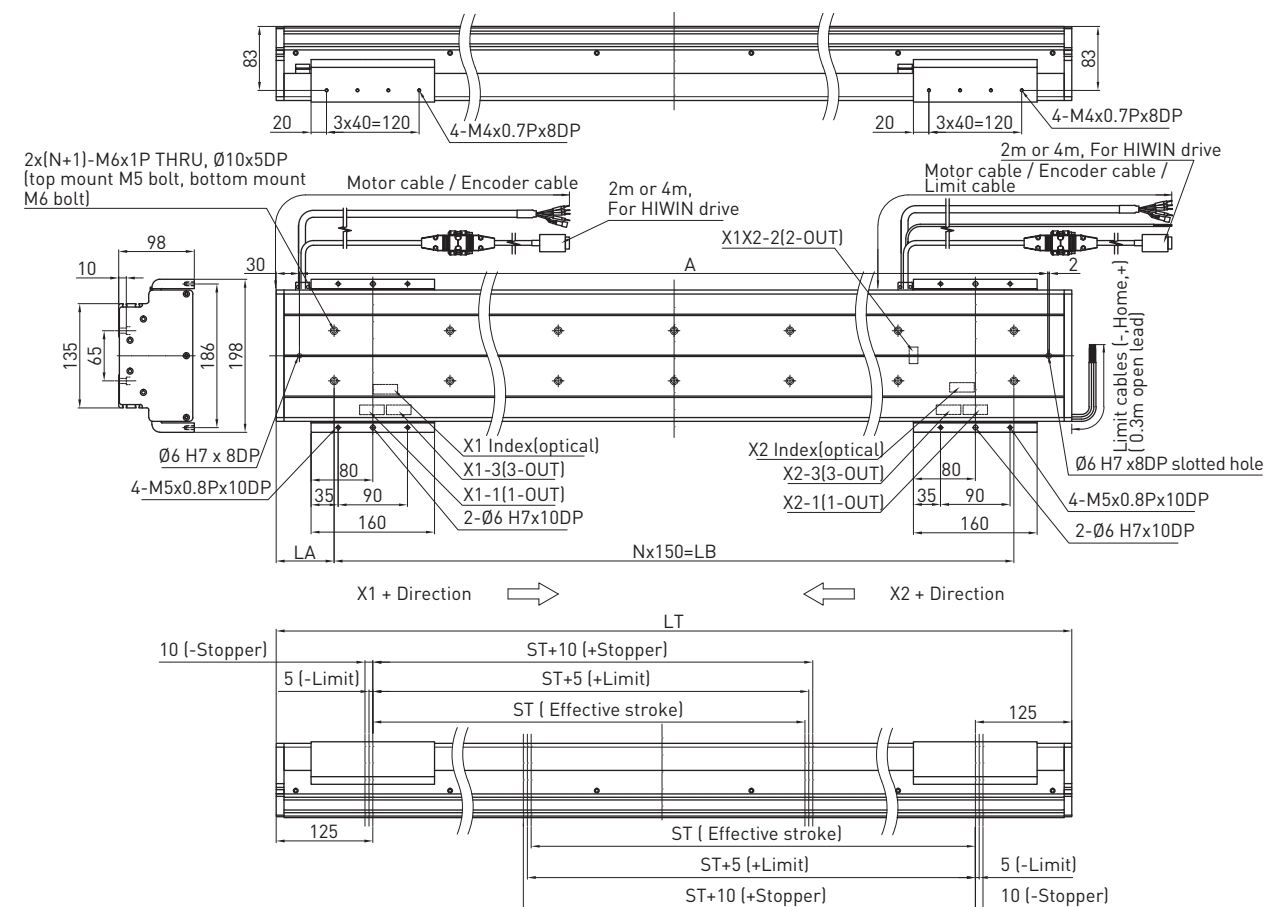


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-13 Series Dual Forcers

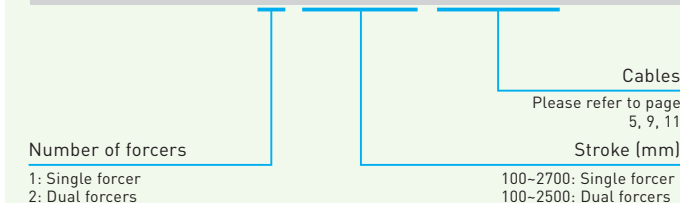
SSA-13S100 High Dustproof Type (M)	Stroke 100~2500
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135100-2-M																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
LT	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
N	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9
LA	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350
A	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439
Weight (kg)	17.6	18.4	19.2	19.9	20.8	21.6	22.4	23.3	24.1	24.8	25.6	26.5	27.3	28.1	29.0	29.7	30.5	31.3	32.1	32.9
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-	-
LT	1500	1550	1600	1650	1700	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-	-
N	9	10	10	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	-	-
LA	75	25	50	75	25	50	25	75	50	25	75	50	25	75	50	25	75	50	-	-
LB	1350	1500	1500	1500	1650	1650	1800	1800	35.2	2100	2100	2250	2400	2400	2550	2700	2700	2850	-	-
A	1439	1489	1539	1589	1639	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	-	-
Weight (kg)	33.0	33.9	34.5	35.4	36.2	37.1	38.7	40.3	41.9	43.6	45.1	46.8	48.5	50.0	51.7	53.4	54.9	56.6	-	-

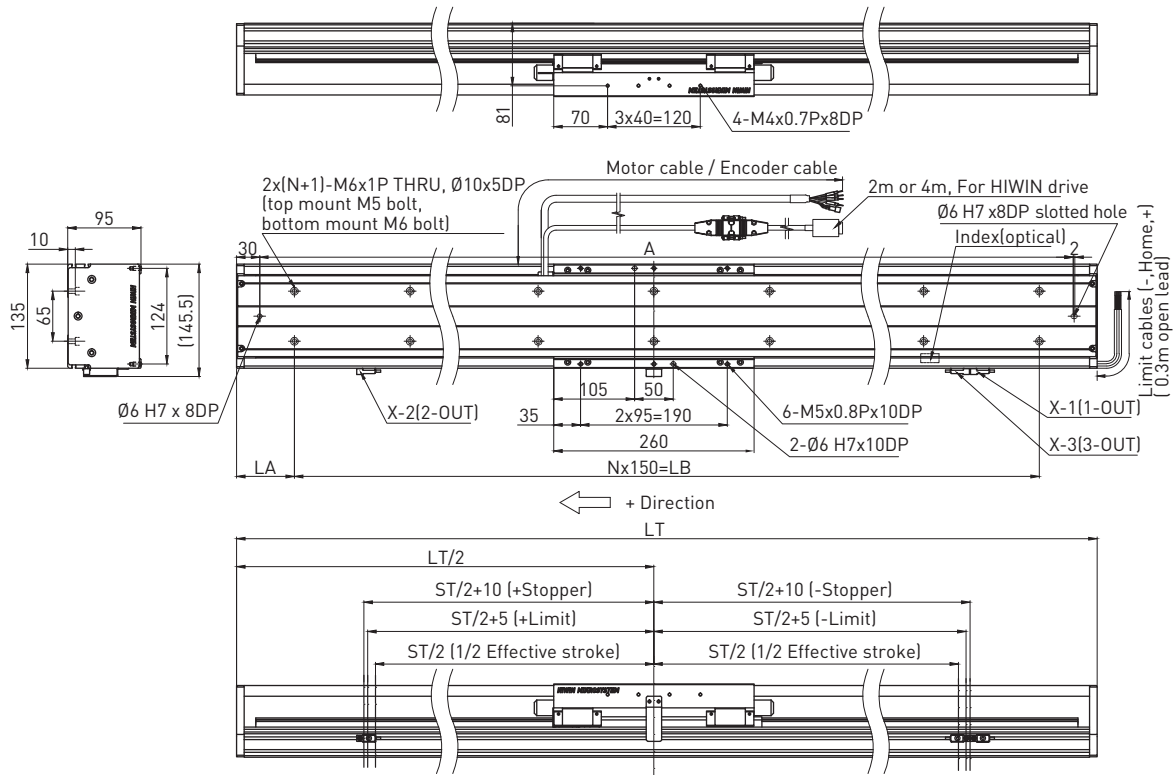
Model Description

LMSSA-13S100-□-□□□□-□□.□□-M-B-A0000



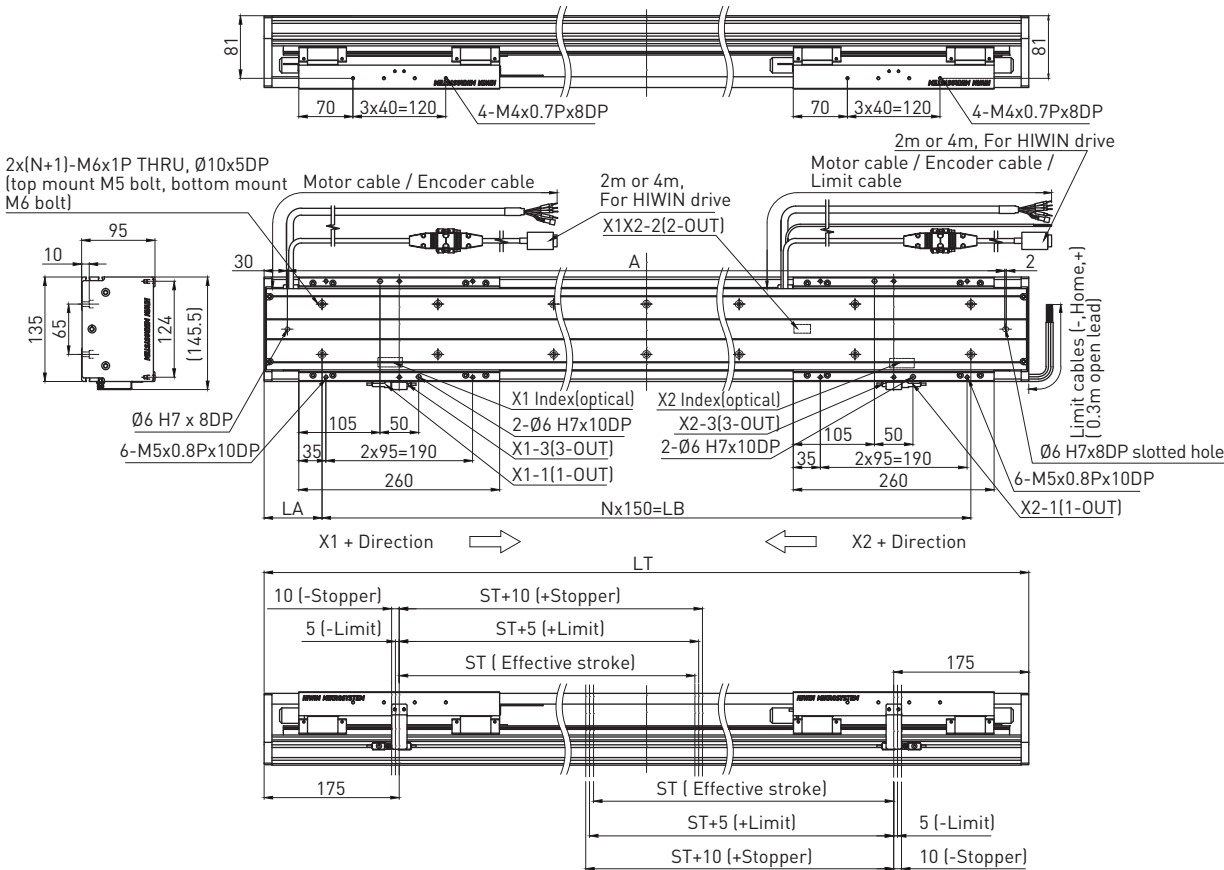
SSA-13 Series Single Forcer

SSA-13S200
Standard Type (S) Stroke 100~2600



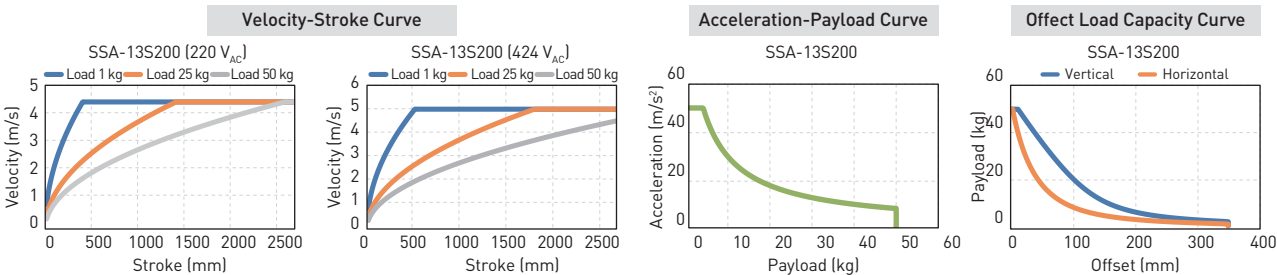
SSA-13 Series Dual Forcers

SSA-13S200
Standard Type (S) Stroke 100~2300



13S200-1-S																			
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
N	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200
A	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289
Weight (kg)	13.5	14.3	15.0	15.8	16.6	17.4	18.3	19.1	19.7	20.5	21.4	22.2	23.0	23.8	24.5	25.3	26.1	26.9	27.7
Stroke (ST)	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
LT	1400	1450	1500	1550	1600	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
N	9	9	9	10	10	10	11	12	12	13	14	14	15	16	16	17	18	18	19
LA	25	50	75	25	50	75	50	25	75	50	25	75	50	25	75	50	25	75	50
LB	1350	1350	1350	1500	1500	1500	1650	1800	1800	1950	2100	2100	2250	2400	2400	2550	2700	2700	2850
A	1339	1389	1439	1489	1539	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889
Weight (kg)	28.5	29.2	30.0	30.8	31.6	32.4	33.9	35.5	37.2	38.6	40.3	41.9	43.4	45.0	46.6	48.1	49.7	51.4	52.8

13S200-2-S																			
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	
N	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	
LB	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	
A	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	
Weight (kg)	21.8	22.6	23.5	24.3	25.1	25.7	26.6	27.4	28.2	29.0	29.8	30.5	31.3	32.1	32.9	33.7	34.6	35.2	
Stroke (ST)	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	-	
LT	1650	1700	1750	1800	1850	1900	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-	
N	10	11	11	11	12	12	12	13	14	14	15	16	16	17	18	18	19	-	
LA	75	25	50	75	25	50	75	50	25	75	50	25	75	50	25	75	50	-	
LB	1500	1650	1650	1650	1800	1800	1800	1950	2100	2100	2250	2400	2400	2550	2700	2700	2850	-	
A	1589	1639	1689	1739	1789	1839	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	-	
Weight (kg)	36.0	36.8	37.7	38.5	39.3	40.1	41.1	42.7	44.2	45.8	47.4	48.9	50.6	52.2	53.7	55.3	56.9	-	



Note:
1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

Model Description

LMSSA-13S200-□-□□□□-□□.□□-S-B-A0000

Number of forcers

1: Single forcer
2: Dual forcers

Cables

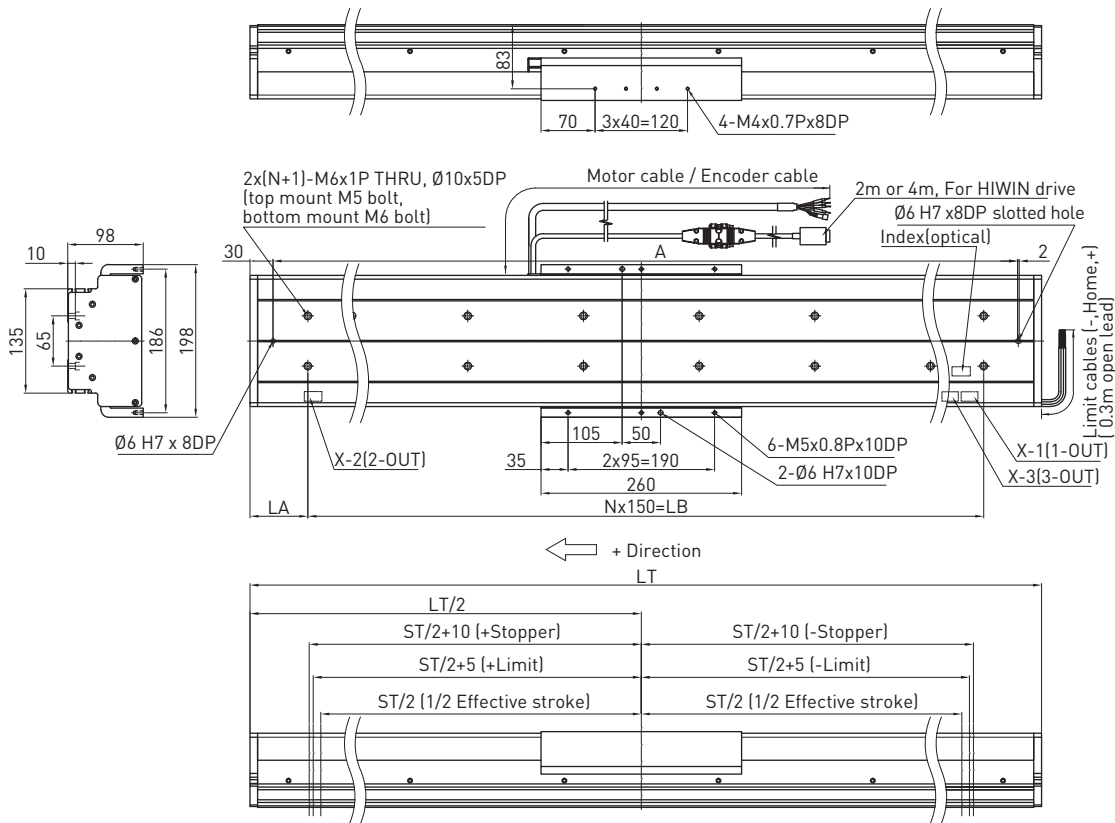
Please refer to page 5, 9, 11

Stroke (mm)

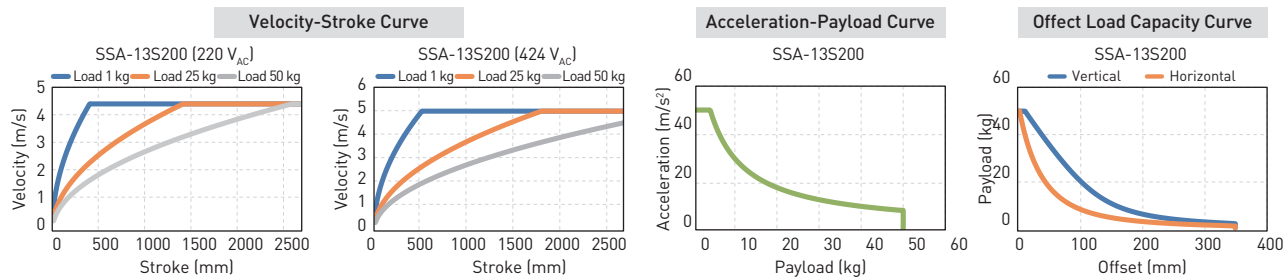
100~2600: Single forcer
100~2300: Dual forcers

SSA-13 Series Single Forcer

SSA-13S200 High Dustproof Type (M)	Stroke 100~2600
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13S200-1-M																			
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
N	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75
LB	300	450	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200
A	389	439	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289
Weight (kg)	14.9	15.8	16.4	17.3	18.1	19.0	19.8	20.6	21.3	22.2	23.0	23.8	24.7	25.5	26.2	27.0	27.9	28.7	29.5
Stroke (ST)	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
LT	1400	1450	1500	1550	1600	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
N	9	9	9	10	10	10	11	12	12	13	14	14	15	16	16	17	18	18	19
LA	25	50	75	25	50	75	50	25	75	50	25	75	50	25	75	50	25	75	50
LB	1350	1350	1350	1500	1500	1500	1650	1800	1800	1950	2100	2100	2250	2400	2400	2550	2700	2700	2850
A	1339	1389	1439	1489	1539	1589	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889
Weight (kg)	30.4	31.1	31.9	32.7	33.6	34.4	35.9	37.6	39.3	40.8	42.5	44.2	45.7	47.4	49.0	50.6	52.2	53.9	55.4

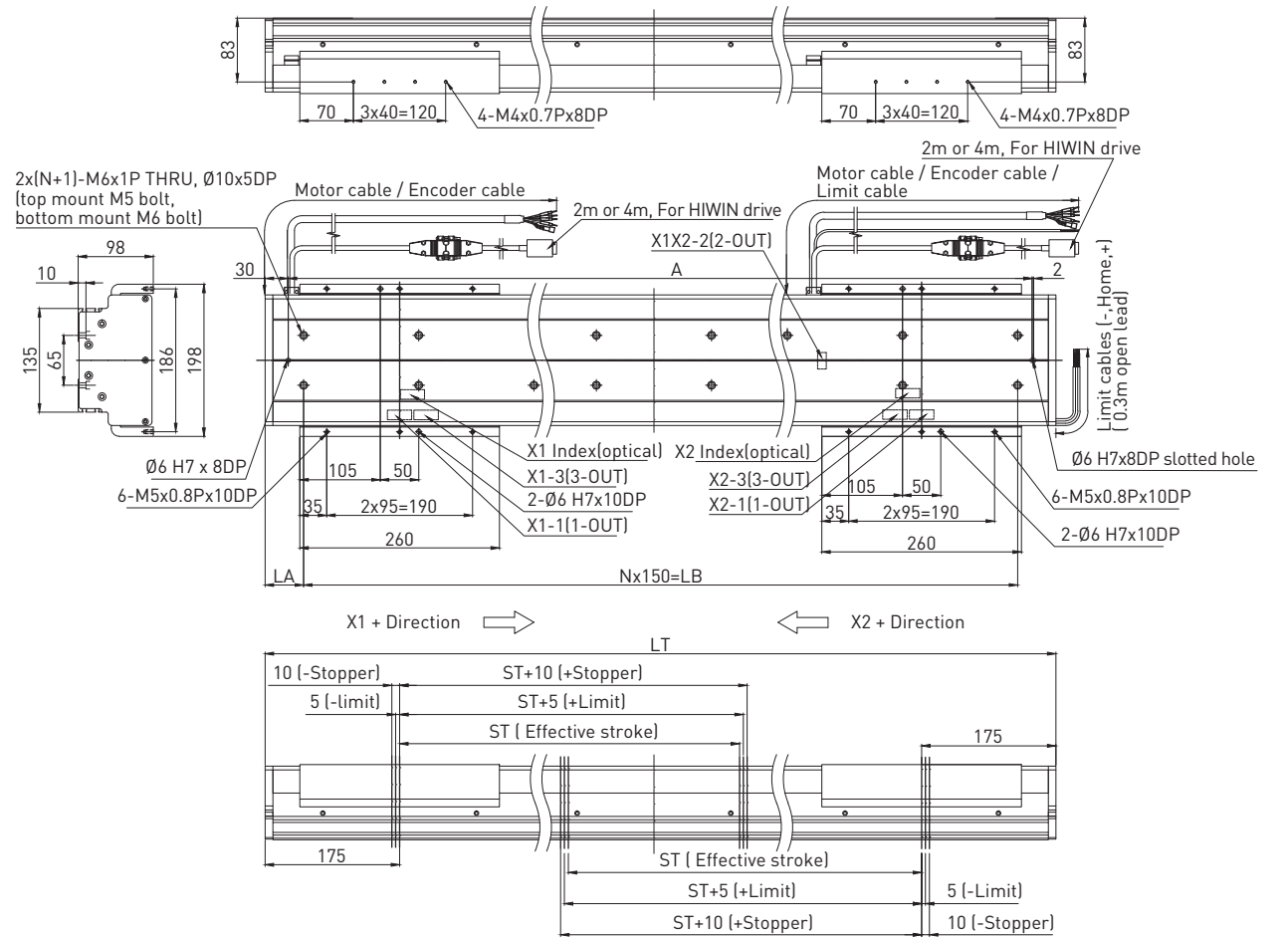


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-13 Series Dual Forcers

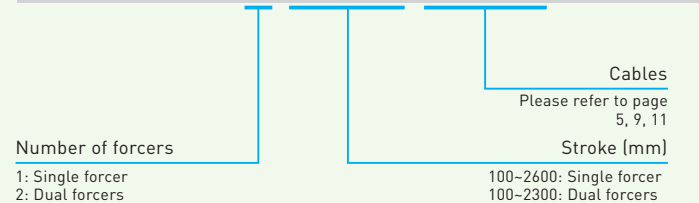
SSA-13S200 High Dustproof Type (M)	Stroke 100~2300
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13S200-2-M																		
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
N	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10
LA	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50
LB	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500
A	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539
Weight (kg)	24.4	25.2	26.0	26.9	27.7	28.4	29.2	30.1	30.9	31.7	32.6	33.3	34.1	34.9	35.8	36.6	37.5	38.1
Stroke (ST)	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	-
LT	1650	1700	1750	1800	1850	1900	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	10	11	11	11	12	12	12	13	14	14	15	16	16	17	18	18	19	-
LA	75	25	50	75	25	50	75	50	25	75	50	25	75	50	25	75	50	-
LB	1500	1650	1650	1650	1800	1800	1800	1950	2100	2100	2250	2400	2400	2550	2700	2700	2850	-
A	1589	1639	1689	1739	1789	1839	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	-
Weight (kg)	39.0	39.8	40.7	41.5	42.3	43.2	44.2	45.9	47.4	49.0	50.7	52.2	53.9	55.6	57.1	58.8	60.5	-

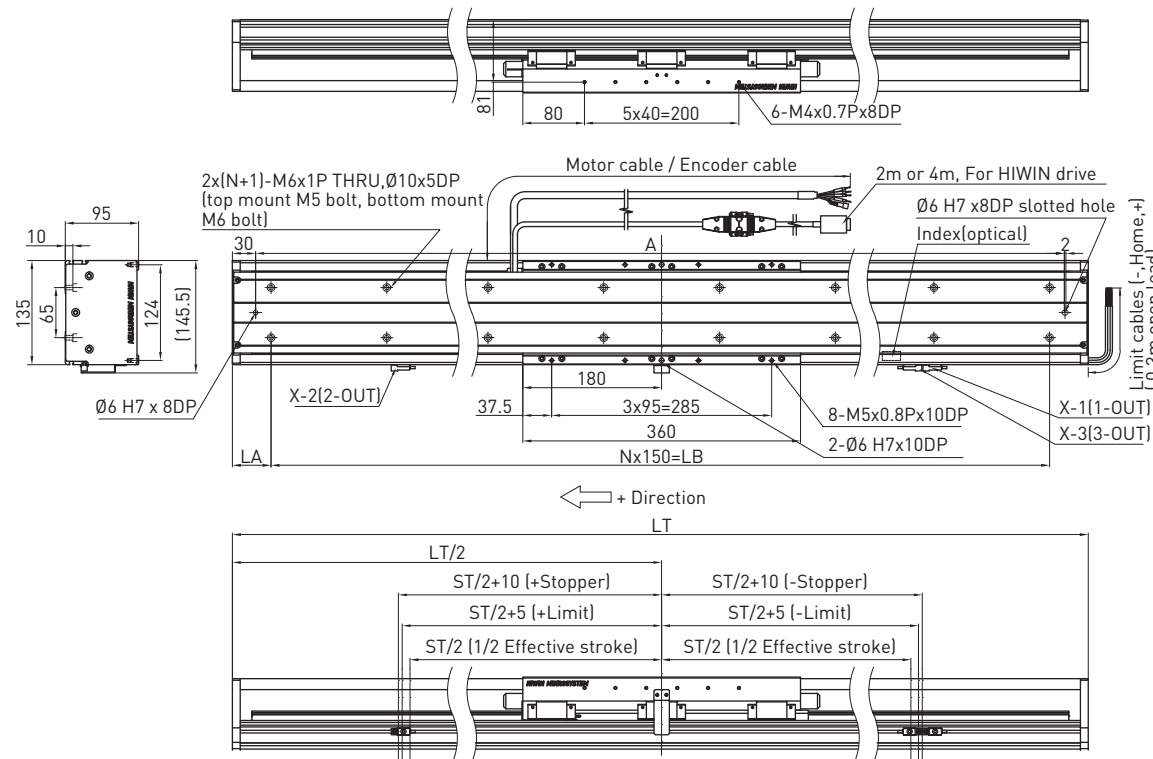
Model Description

LMSSA-13S200-□-□□□□-□□.□□-M-B-A0000

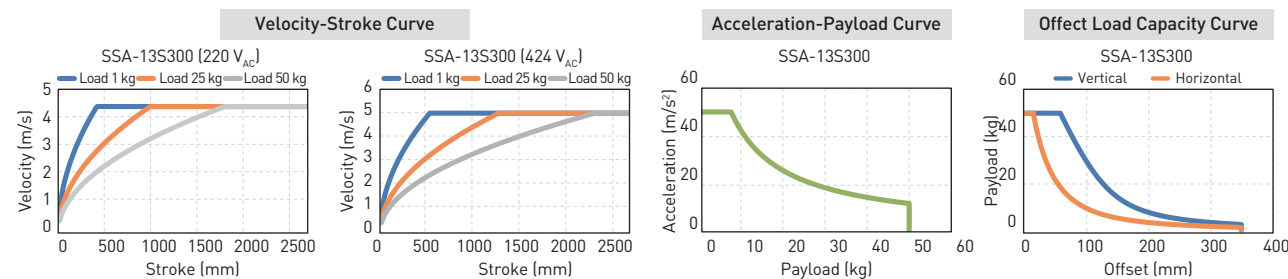


SSA-13 Series Single Forcer

SSA-13S300	Stroke
Standard Type (S)	100~2500



13S300-1-S																			
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
N	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9
LA	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50
LB	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350
A	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389
Weight (kg)	16.7	17.5	18.3	19.1	20.0	20.8	21.4	22.2	23.1	23.9	24.7	25.5	26.2	27.0	27.8	28.6	29.4	30.2	30.9
Stroke (ST)	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-
LT	1500	1550	1600	1650	1700	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	9	10	10	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	-
LA	75	25	50	75	25	50	25	75	50	25	75	50	25	75	50	25	75	50	-
LB	1350	1500	1500	1500	1650	1650	1800	1800	1950	2100	2100	2250	2400	2400	2550	2700	2700	2850	-
A	1439	1489	1539	1589	1639	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	-
Weight (kg)	31.7	32.5	33.3	34.1	35.0	35.6	37.2	38.9	40.3	42.0	43.6	45.1	46.7	48.3	49.8	51.4	53.1	54.5	-

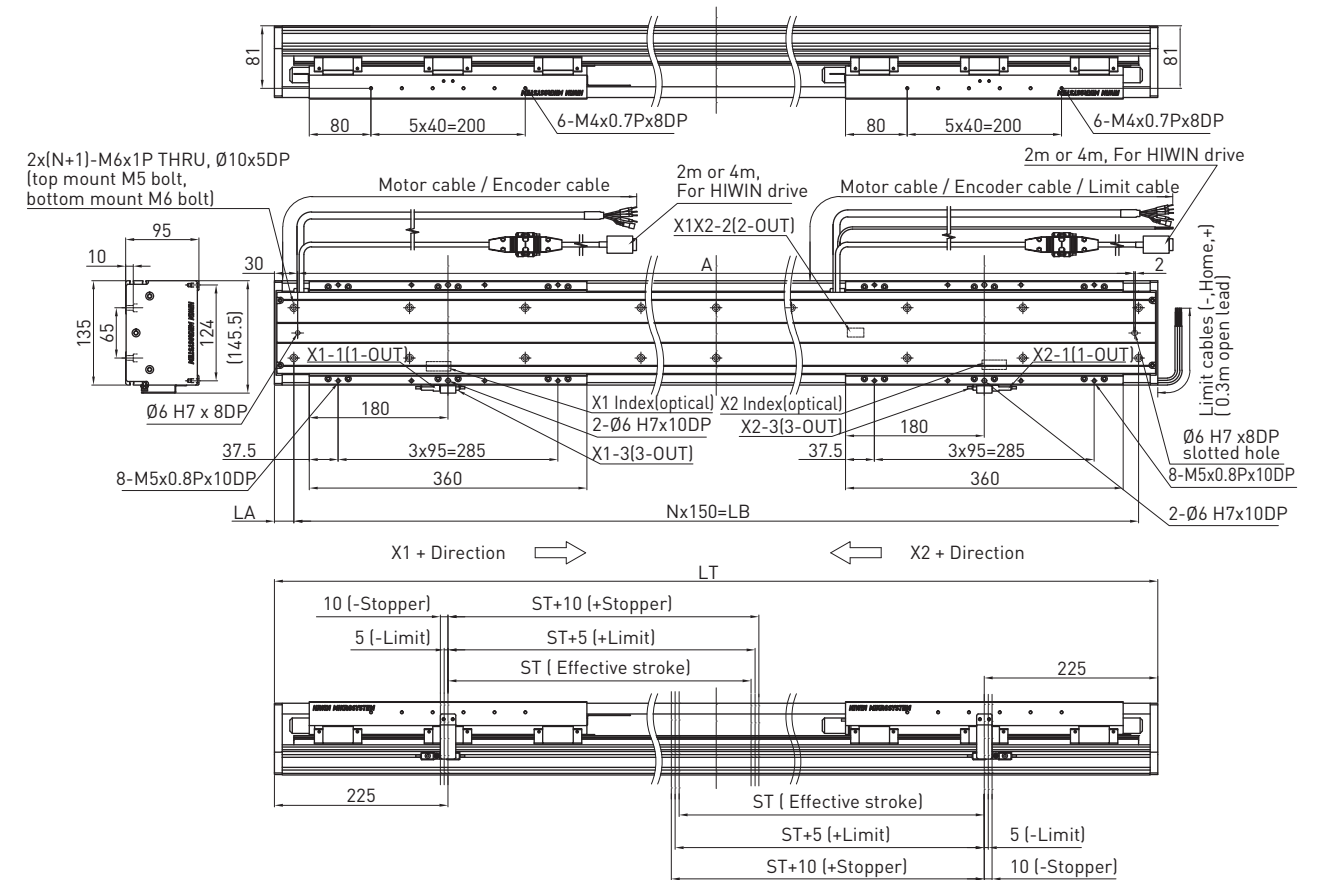


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-13 Series Dual Forcers

SSA-13S300	Stroke
Standard Type (S)	100~2100



135300-2-5																	
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
LT	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
N	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11
LA	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50
LB	900	900	900	1050	1050	1050	1200	1200	1350	1350	1350	1350	1500	1500	1500	1650	1650
A	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589	1639	1689
Weight (kg)	28.0	28.9	29.7	30.5	31.3	32.1	32.8	33.6	34.4	35.2	36.0	36.9	37.5	38.3	39.1	40.0	40.8
Stroke (ST)	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	-
LT	1800	1850	1900	1950	2000	2050	2100	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	11	12	12	12	13	13	13	14	14	15	16	16	17	18	18	19	-
LA	75	25	50	75	25	50	75	25	75	50	25	75	50	25	75	50	-
LB	1650	1800	1800	1800	1950	1950	1950	2100	2100	2250	2400	2400	2550	2700	2700	2850	-
A	1739	1789	1839	1889	1939	1989	2039	2089	2189	2289	2389	2489	2589	2689	2789	2889	-
Weight (kg)	41.6	42.2	43.1	43.9	44.7	45.5	46.3	47.0	48.6	50.2	51.7	53.3	55.0	56.4	58.1	59.7	-

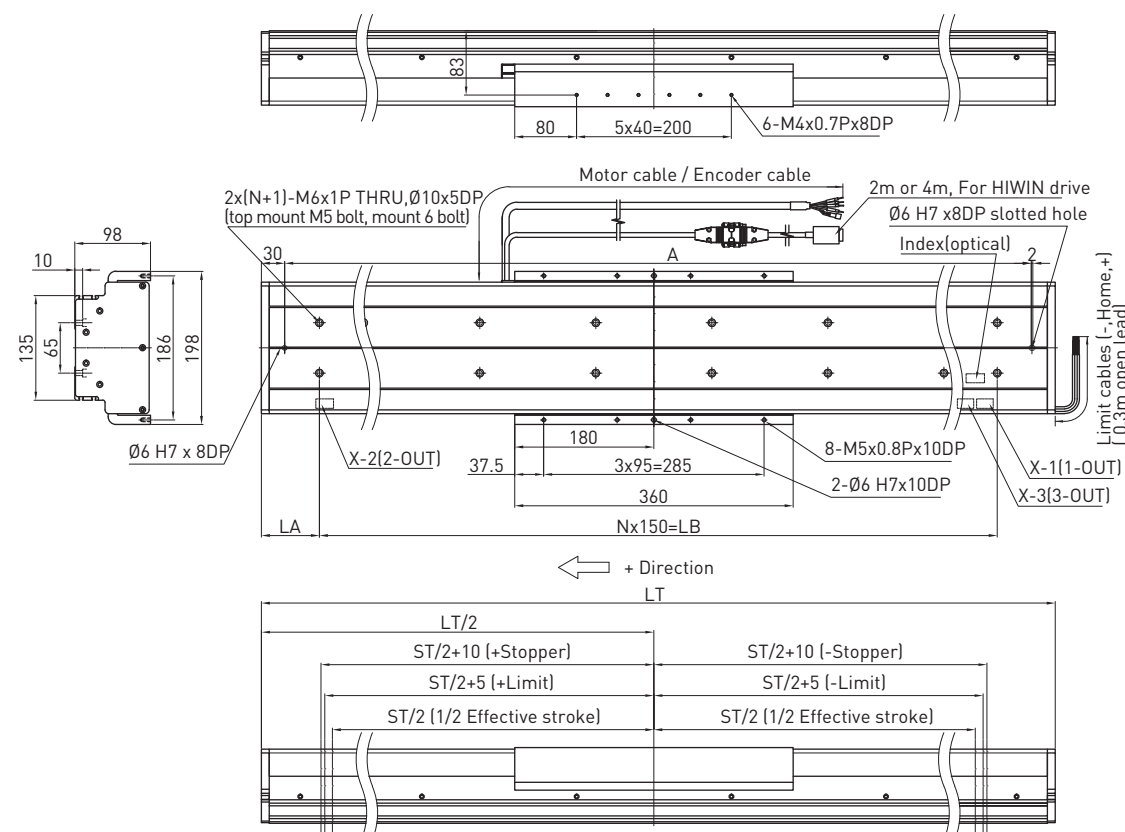
Model Description

LMSSA-13S300-□-□□□□-□□.□□-S-B-A0000

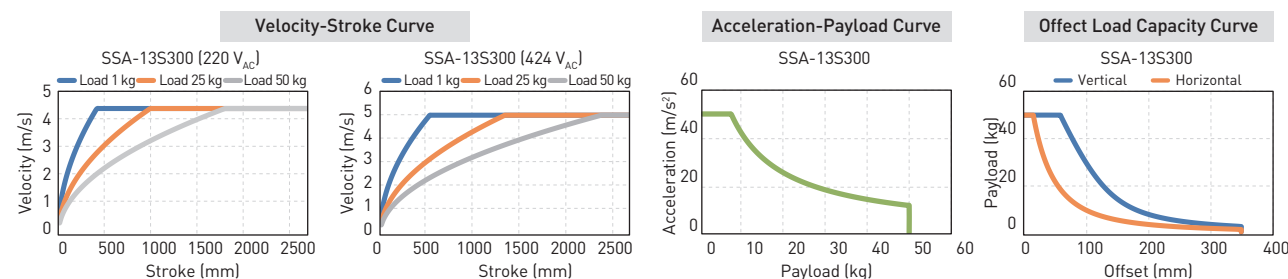
Number of forcers		Cables Please refer to page 5, 9, 11
1: Single forcer 2: Dual forcers		Stroke (mm) 100-2500: Single forcer 100-2100: Dual forcers

SSA-13 Series Single Forcer

SSA-13S300 High Dustproof Type (M)	Stroke 100~2500
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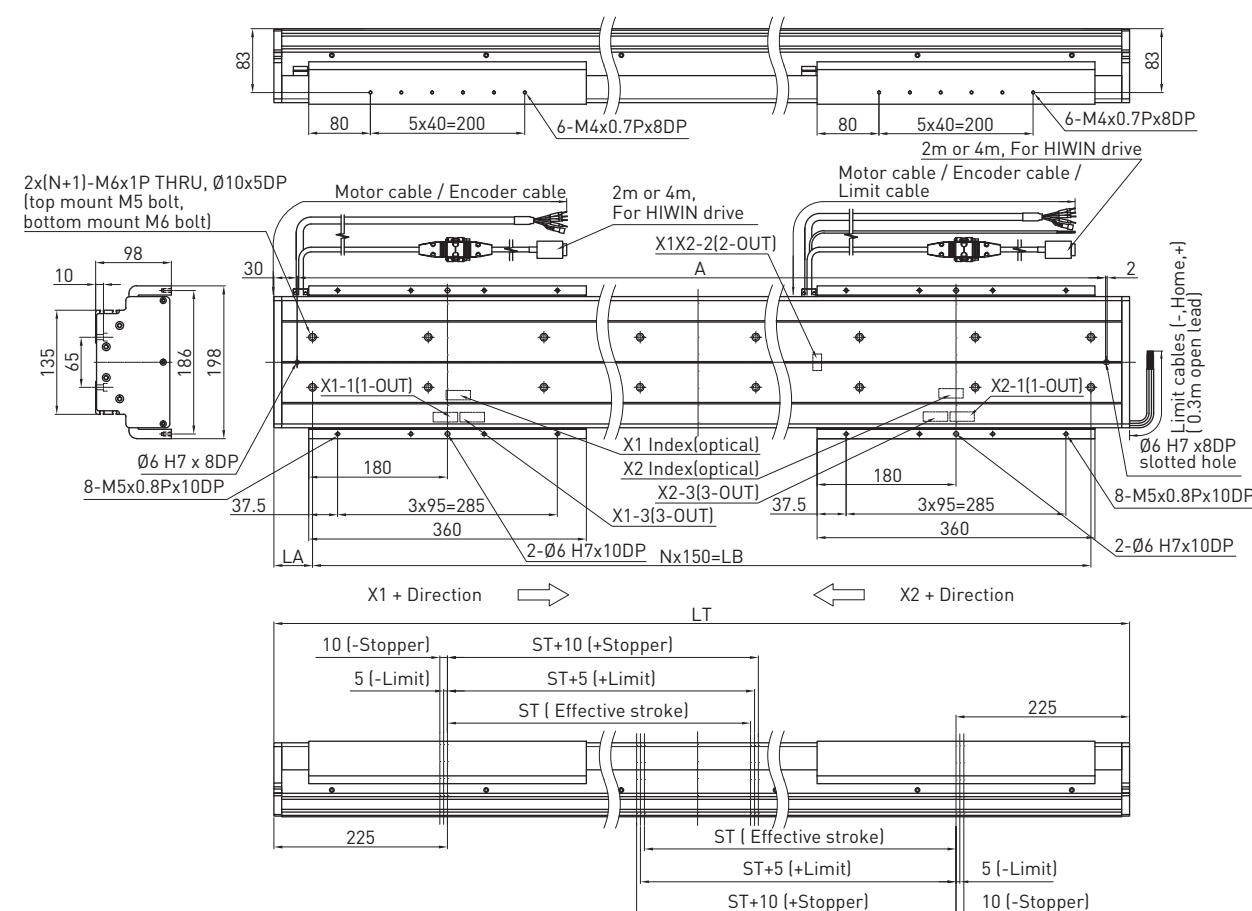
135300-1-M																				
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	
N	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	
LA	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50	
LB	450	450	600	600	600	750	750	750	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	
A	489	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	
Weight (kg)	18.7	19.6	20.4	21.3	22.1	22.9	23.6	24.5	25.3	26.1	27.0	27.8	28.5	29.3	30.2	31.0	31.8	32.7	33.4	
Stroke (ST)	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-	
LT	1500	1550	1600	1650	1700	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-	
N	9	10	10	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	-	
LA	75	25	50	75	25	50	25	75	50	25	75	50	25	75	50	25	75	50	-	
LB	1350	1500	1500	1500	1650	1650	1800	1800	1950	2100	2100	2250	2400	2400	2550	2700	2700	2850	-	
A	1439	1489	1539	1589	1639	1689	1789	1889	1989	2089	2189	2289	2389	2489	2589	2689	2789	2889	-	
Weight (kg)	34.2	35.0	35.9	36.7	37.6	38.2	39.9	41.6	43.1	44.8	46.5	48.0	49.7	51.3	52.9	54.5	56.2	57.7	-	



- Note:
1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
 2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
 3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
 4. For a schematic of offset load, please refer to page 12.

SSA-13 Series Dual Forcers

SSA-13S300 High Dustproof Type (M)	Stroke 100~2100
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13S300-2-M																	
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
LT	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
N	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11
LA	25	50	75	25	50	75	25	50	75	25	50	75	25	50	75	25	50
LB	900	900	900	1050	1050	1050	1200	1200	1200	1350	1350	1350	1500	1500	1500	1650	1650
A	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	1489	1539	1589	1639	1689
Weight (kg)	31.7	32.5	33.3	34.2	35.0	35.9	36.5	37.4	38.2	39.1	39.9	40.7	41.4	42.2	43.1	43.9	44.7
Stroke (ST)	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	-
LT	1800	1850	1900	1950	2000	2050	2100	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	11	12	12	12	13	13	13	14	14	15	16	16	17	18	18	19	-
LA	75	25	50	75	25	50	75	25	75	50	25	75	50	25	75	50	-
LB	1650	1800	1800	1800	1950	1950	1950	2100	2100	2250	2400	2400	2550	2700	2700	2850	-
A	1739	1789	1839	1889	1939	1989	2039	2089	2189	2289	2389	2489	2589	2689	2789	2889	-
Weight (kg)	45.6	46.3	47.1	48.0	48.8	49.6	50.5	51.2	52.8	54.5	56.0	57.7	59.4	60.9	62.6	64.3	-

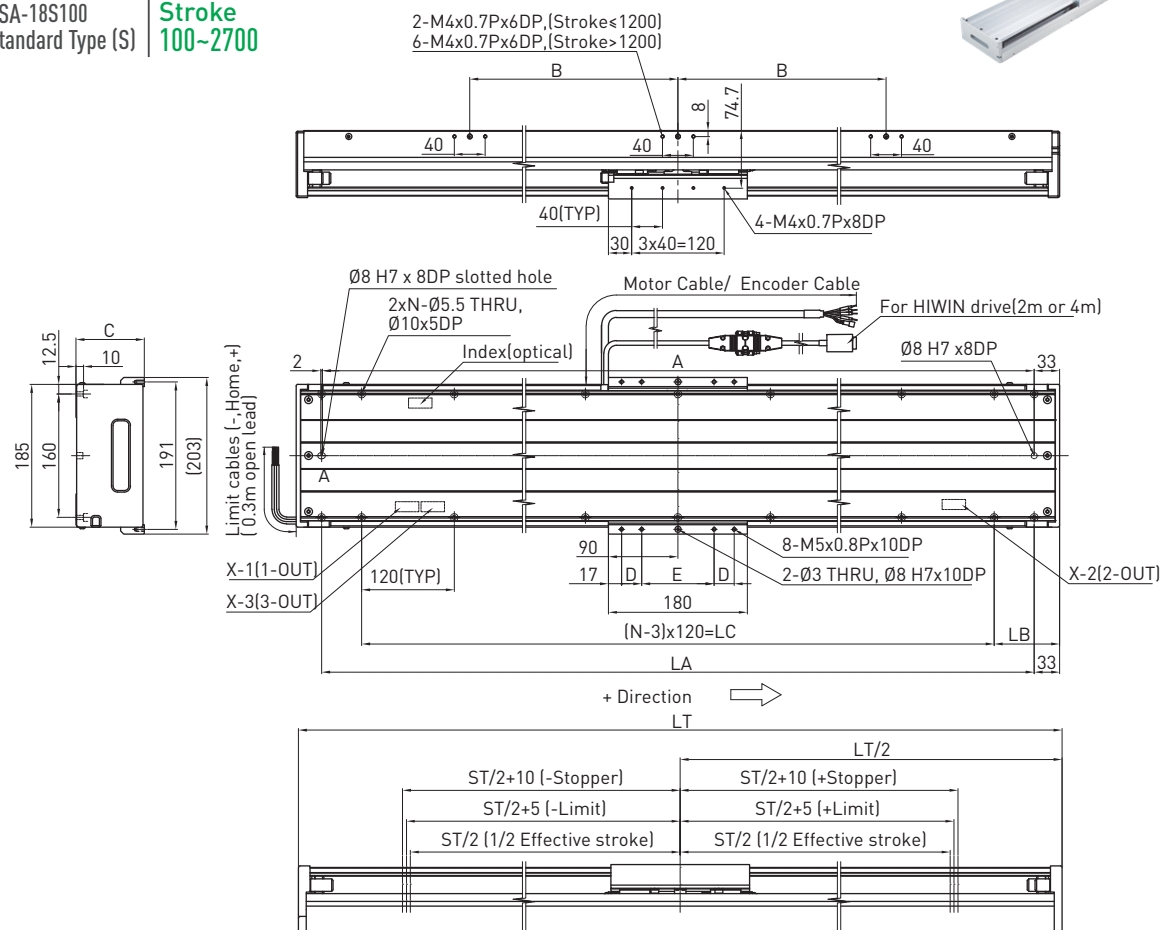
Model Description

LMSSA-13S300-□-□□□□-□□.□□-M-B-A0000

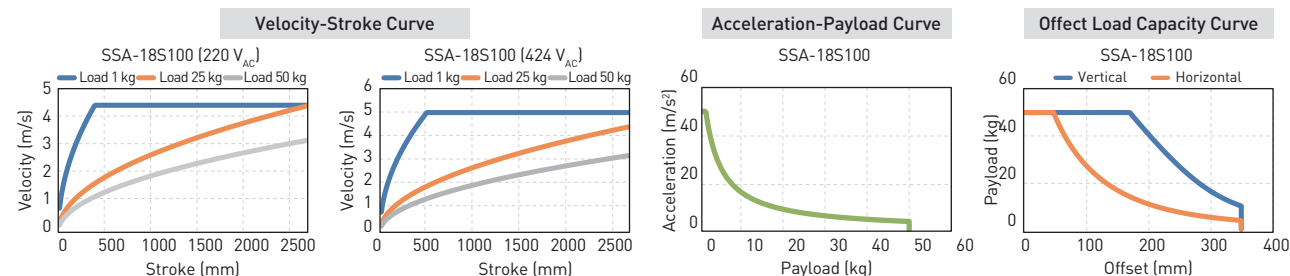
Number of forcers	1: Single forcer 2: Dual forcers	Cables
		Please refer to page 5, 9, 11
		Stroke (mm)
		100–2500: Single forcer
		100–2100: Dual forcers

SSA-18 Series Single Forcer

SSA-18S100 Standard Type (S)	Stroke 100~2700
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18S100-1-S																					
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
LT	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	
N	5	5	5	5	7	7	7	7	7	9	9	9	9	9	11	11	11	13	13	13	
LA	324	374	424	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	
LB	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	45	70	
LC	240	240	240	240	480	480	480	480	480	720	720	720	720	720	960	960	960	1200	1200	1200	
A	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C	88.7																				
D	26																				
E	94																				
Weight (kg)	10.0	10.8	12.0	12.9	13.8	14.7	15.6	16.5	17.4	18.3	19.2	20.1	21.0	21.9	22.8	23.7	24.6	25.5	26.4	27.3	
Stroke (ST)	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	-	
LT	1390	1440	1490	1540	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	-	
N	13	13	13	15	15	15	17	17	17	19	19	21	21	23	23	23	25	25	27	-	
LA	1324	1374	1424	1474	1524	1624	1724	1824	1924	2024	2124	2224	2324	2424	2524	2624	2724	2824	2924	-	
LB	95	120	145	50	75	125	55	105	155	85	135	65	115	45	95	145	75	125	55	-	
LC	1200	1200	1200	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2400	2400	2400	2640	2640	2880	-	
A	1323	1373	1423	1473	1523	1623	1723	1823	1923	2023	2123	2223	2323	2423	2523	2623	2723	2823	2923	-	
B	-	-	-	360	360	360	600	600	600	600	840	840	840	840	1080	1080	1080	1080	1080	-	
C	88.7							108.7													-
D	26							50													-
E	94							46													-
Weight (ka)	28.2	29.1	30.0	30.9	31.8	33.6	35.4	38.4	40.2	42.0	43.8	45.6	47.4	49.2	51.0	52.7	54.5	56.3	58.1	-	

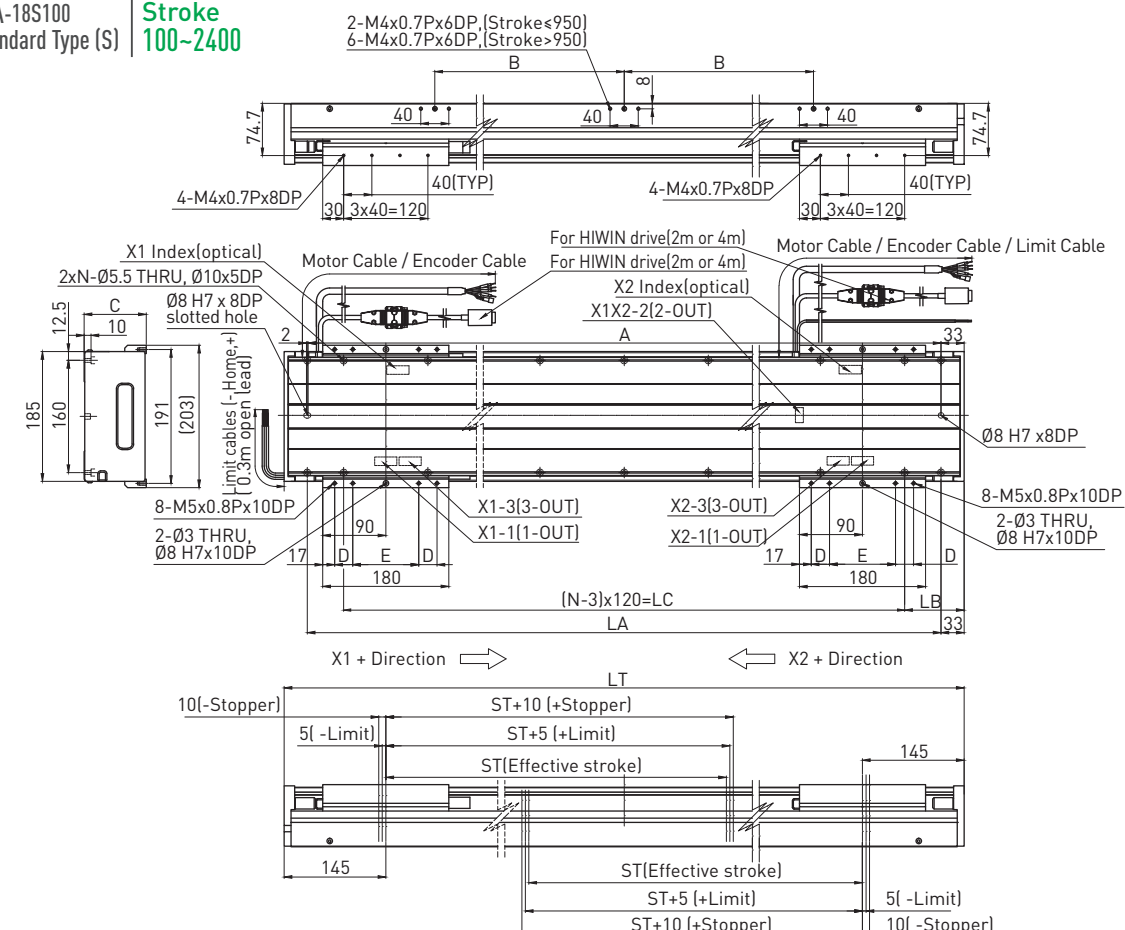


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18S100	Stroke
Standard Type (S)	100~2400



185100-2-S																		
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Effective Stroke (ST)	130	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980
LT	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490
N	7	7	7	7	9	9	9	9	9	11	11	11	13	13	13	13	13	13
LA	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424
LB	80	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145
LC	480	480	480	480	720	720	720	720	720	960	960	960	1200	1200	1200	1200	1200	1200
A	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	88.7																	
D	26																	
E	94																	
Weight (kg)	17.6	18.5	19.4	20.3	21.2	22.1	23.0	23.9	24.8	25.7	26.6	27.5	28.4	29.3	30.2	31.1	32.0	32.9
Stroke (ST)	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Effective Stroke (ST)	1030	1080	1130	1180	1230	1280	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430
LT	1540	1590	1640	1690	1740	1790	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940
N	15	15	15	15	15	17	17	17	19	19	19	21	23	23	23	25	25	25
LA	1474	1524	1574	1624	1674	1724	1774	1874	1974	2074	2174	2274	2374	2474	2574	2674	2774	2874
LB	50	75	100	125	150	55	80	130	60	110	160	90	20	70	120	50	100	150
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	1920	2160	2400	2400	2400	2640	2640	2640
A	1473	1523	1573	1623	1673	1723	1773	1873	1973	2073	2173	2273	2373	2473	2573	2673	2773	2873
B	360	360	360	360	600	600	600	600	600	600	840	840	840	840	840	1080	1080	1080
C	88.7						108.7											
D	26						50											
E	94						46											
Weight (ka)	33.8	34.7	35.6	36.5	37.4	38.3	41.6	43.4	45.2	47.0	48.8	50.6	52.4	54.2	55.9	57.7	59.5	61.3

Model Description

LMSSA-18S100-□-□□□□-□□.□□-S-S-A0000

Cables

Please refer to page
5, 9, 11

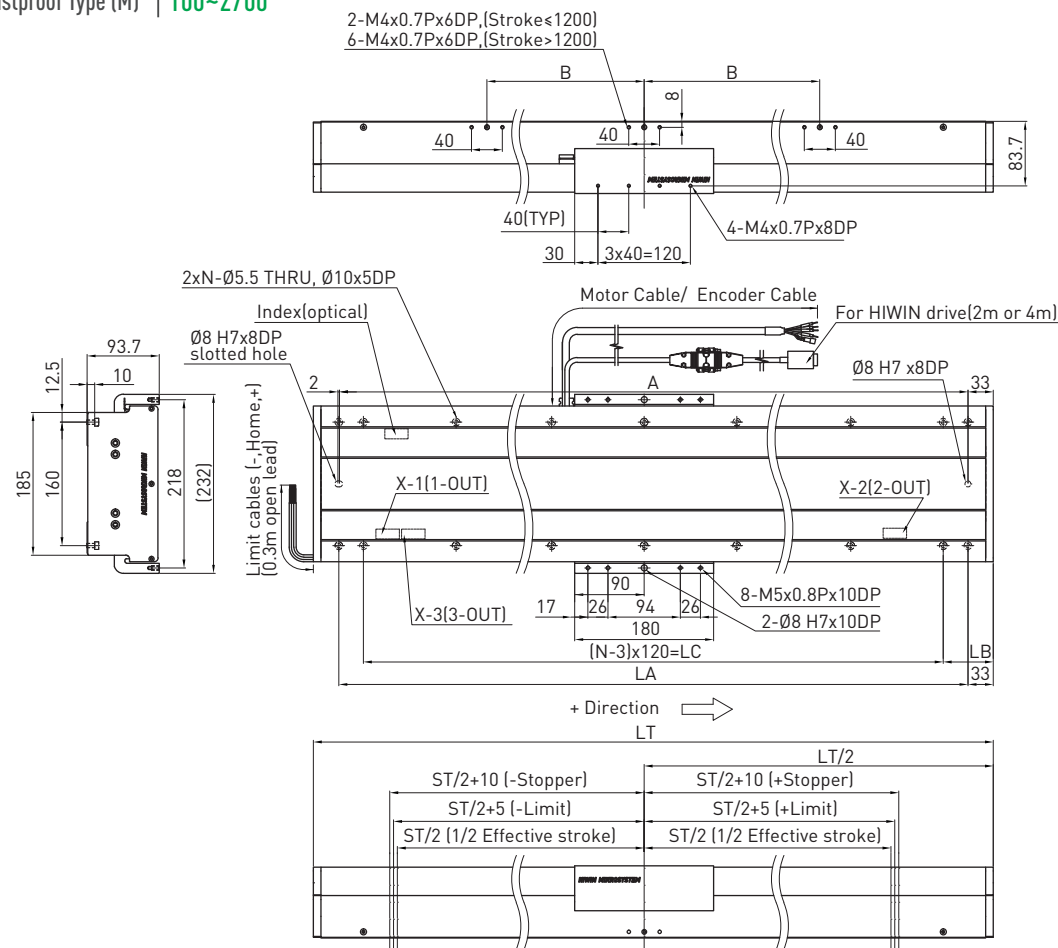
Number of forcers

- 1: Single forcer
- 2: Dual forcers

Stroke (mm)

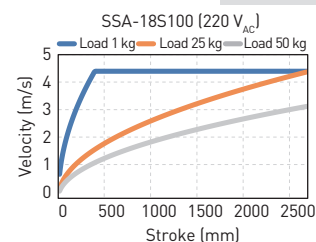
100~2700: Single forcer
100~2400: Dual forcers

SSA-18 Series Single Forcer

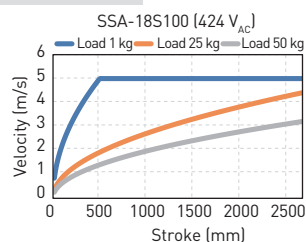
SSA-18S100
High Dustproof Type (M)Stroke
100~2700

18S100-1-M																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
LT	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340
N	5	5	5	5	7	7	7	7	7	9	9	9	9	9	11	11	11	13	13	13
LA	324	374	424	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274
LB	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	45	70
LC	240	240	240	240	480	480	480	480	480	720	720	720	720	720	960	960	960	1200	1200	1200
A	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight (kg)	11.1	11.9	13.2	14.1	15.0	16.0	16.9	17.8	18.7	19.7	20.6	21.5	22.5	23.4	24.3	25.3	26.2	27.1	28.1	29.0
Stroke [ST]	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	-
LT	1390	1440	1490	1540	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	-
N	13	13	13	15	15	15	17	17	17	19	19	21	21	23	23	23	25	25	27	-
LA	1324	1374	1424	1474	1524	1624	1724	1824	1924	2024	2124	2224	2324	2424	2524	2624	2724	2824	2924	-
LB	95	120	145	50	75	125	55	105	155	85	135	65	115	45	95	145	75	125	55	-
LC	1200	1200	1200	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2400	2400	2400	2640	2640	2880	-
A	1323	1373	1423	1473	1523	1623	1723	1823	1923	2023	2123	2223	2323	2423	2523	2623	2723	2823	2923	-
B	-	-	-	360	360	360	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-
Weight (kg)	29.9	30.8	31.8	32.7	33.6	35.5	37.4	39.4	41.3	43.1	45.0	46.9	48.7	50.6	52.4	54.3	56.2	58.0	59.9	-

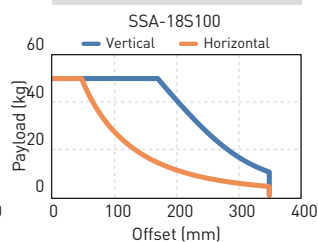
Velocity-Stroke Curve



Acceleration-Payload Curve



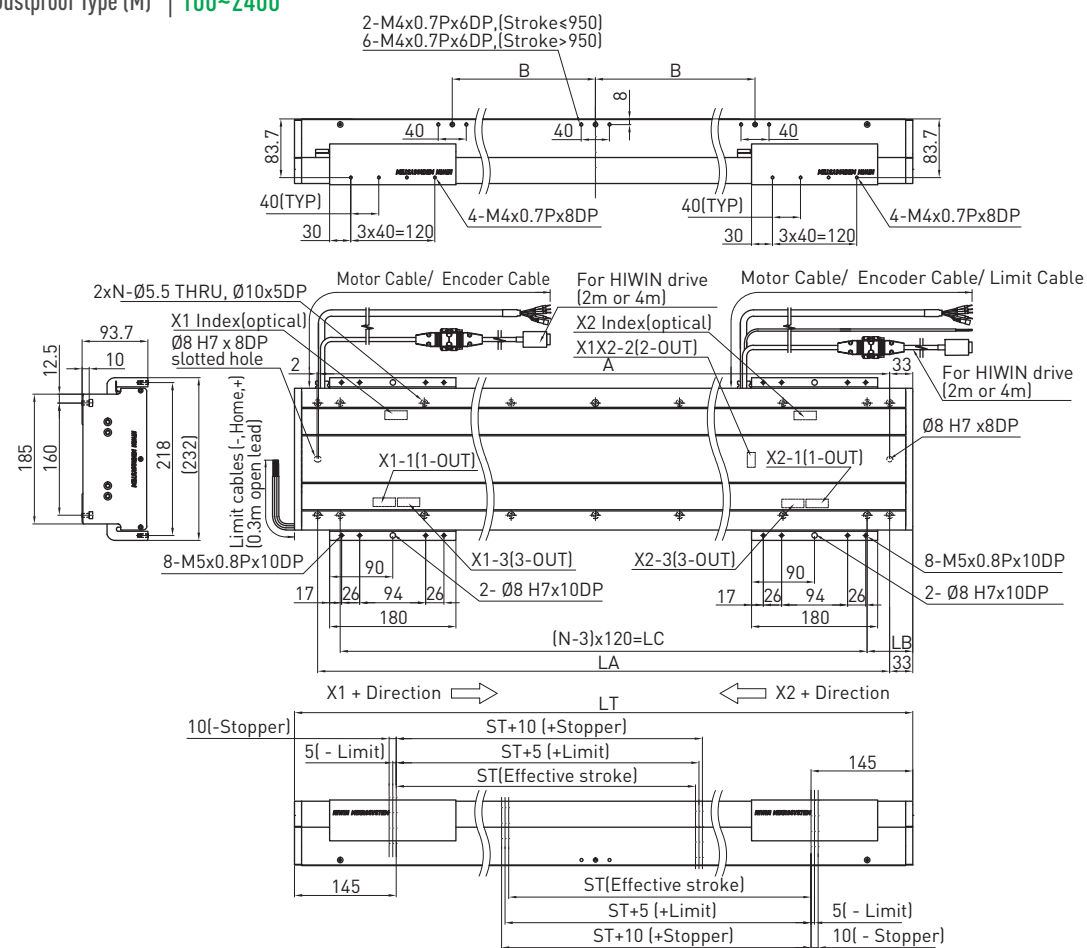
Effect Load Capacity Curve



Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18S100
High Dustproof Type (M)Stroke
100~2400

18S100-2-M																			
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	
Effective Stroke [ST]	130	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	
LT	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490	
N	7	7	7	7	9	9	9	9	9	11	11	11	13	13	13	13	13	13	
LA	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424	
LB	80	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	
LC	480	480	480	480	720	720	720	720	720	960	960	960	1200	1200	1200	1200	1200	1200	
A	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weight (kg)	19.8	20.7	21.7	22.6	23.5	24.5	25.4	26.3	27.3	28.2	29.1	30.0	31.0	31.9	32.8	33.8	34.7	35.6	
Stroke [ST]	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	
Effective Stroke [ST]	1030	1080	1130	1180	1230	1280	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430	
LT	1540	1590	1640	1690	1740	1790	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940	
N	15	15	15	15	15	17	17	17	19	19	19	21	23	23	23	25	25	25	
LA	1474	1524	1574	1624	1674	1724	1774	1874	1974	2074	2174	2274	2374	2474	2574	2674	2774	2874	
LB	50	75	100	125	150	55	80	130	60	110	160	90	20	70	120	50	100	150	
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	1920	2160	2400	2400	2400	2640	2640	2640	
A	1473	1523	1573	1623	1673	1723	1773	1873	1973	2073	2173	2273	2373	2473	2573	2673	2773	2873	
B	360	360	360	360	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080	
Weight (kg)	36.6	37.5	38.4	39.3	40.3	41.2	42.1	44.0	45.9	47.7	49.6	51.5	53.3	55.2	57.0	58.9	60.8	62.6	

Model Description

LMSSA-18S100-□-□□□□-□□.□□-M-S-A0000

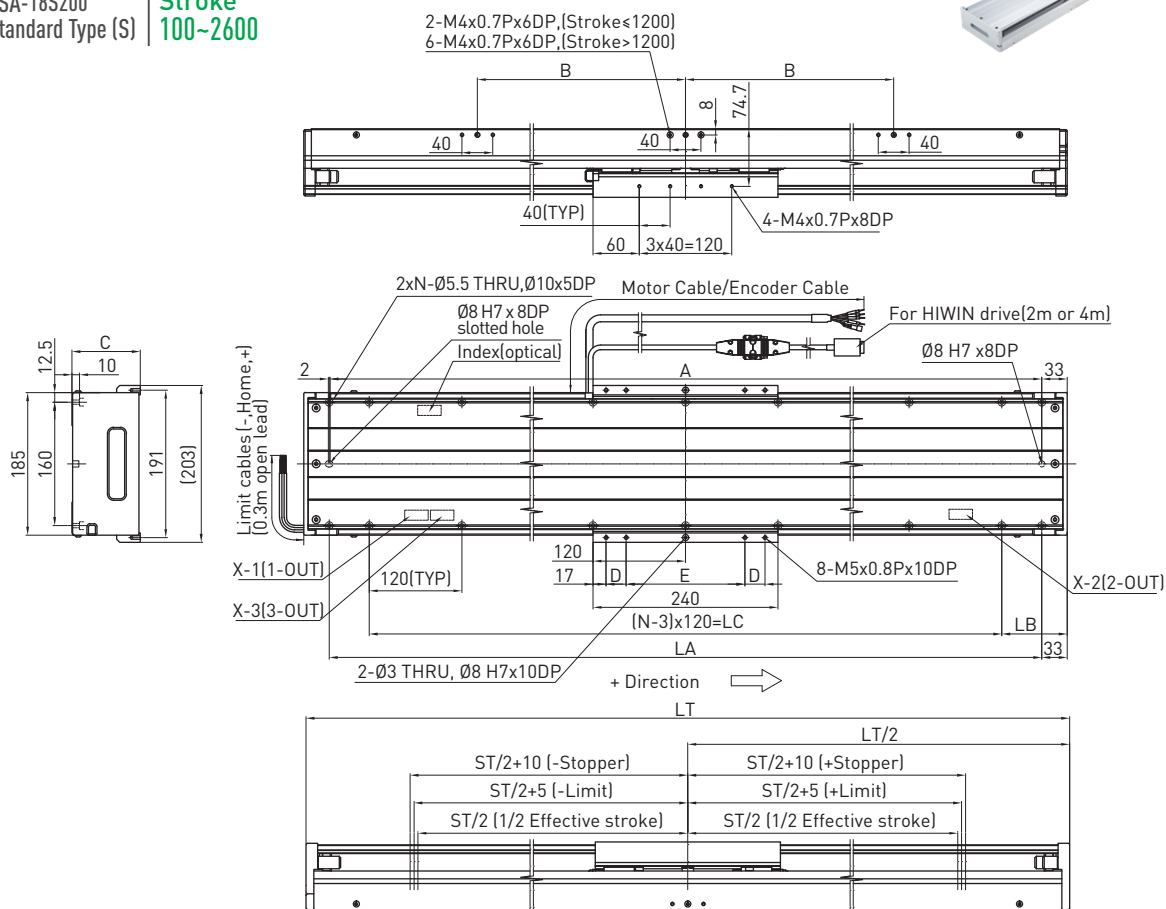
Cables
Please refer to page 5, 9, 11

Number of forcers
1: Single forcer
2: Dual forcers

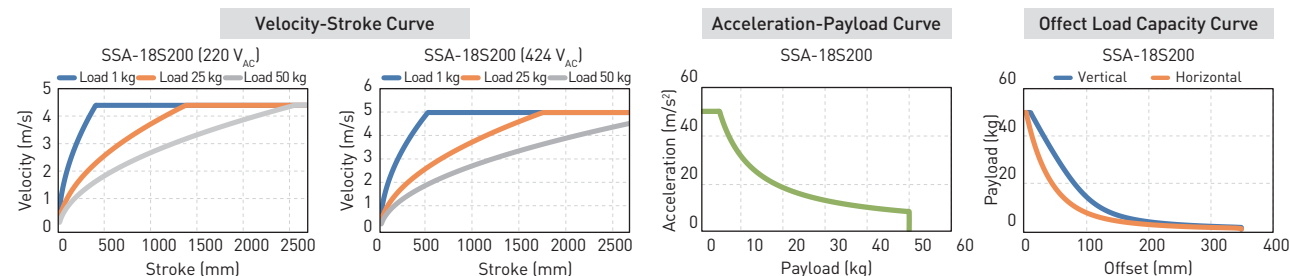
Stroke (mm)
100~2700: Single forcer
100~2400: Dual forcers

SSA-18 Series Single Forcer

SSA-18S200 Standard Type (S)	Stroke 100~2600
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18S200-1-S																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	
N	5	5	5	7	7	7	7	7	9	9	9	11	11	11	11	11	11	13	13	
LA	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	
LB	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50	75	
LC	240	240	240	480	480	480	480	480	720	720	720	960	960	960	960	960	960	1200	1200	
A	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C	88.7																			
D	26																			
E	154																			
Weight (kg)	12.2	13.1	14.2	15.1	16.0	17.0	17.9	18.8	19.7	20.6	21.5	22.4	23.3	24.3	25.2	26.1	27.0	27.9	28.8	
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	
LT	1400	1450	1500	1550	1600	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	
N	13	13	13	15	15	15	15	17	17	19	19	21	21	21	23	23	25	25	25	
LA	1334	1384	1434	1484	1534	1584	1684	1784	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	
LB	100	125	150	55	80	105	155	85	135	65	115	45	95	145	75	125	55	105	155	
LC	1200	1200	1200	1440	1440	1440	1440	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	
A	1333	1383	1433	1483	1533	1583	1683	1783	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	
B	-	-	-	-	360	360	600	600	600	600	600	840	840	840	840	1080	1080	1080	1080	
C	88.7																			
D	26																			
E	154																			
Weight (kg)	29.7	30.6	31.6	32.5	33.4	34.3	36.1	37.9	41.8	43.6	45.4	47.2	49.1	50.9	52.7	54.5	56.4	58.2	60.0	

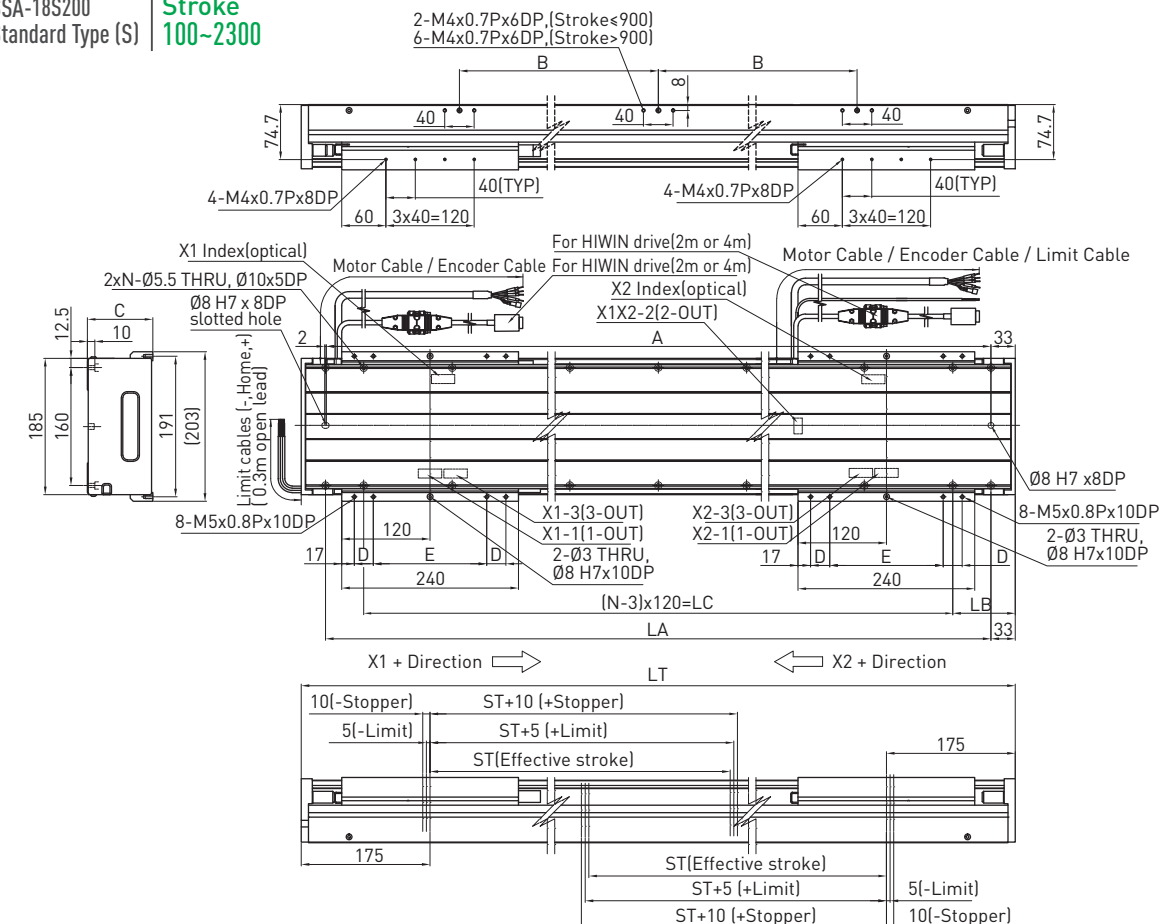


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18S200 Standard Type (S)	Stroke 100~2300
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185200-2-S																			
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	
Effective Stroke (ST)	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970	
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	
N	7	7	9	9	9	11	11	11	11	11	11	13	13	13	13	13	15	15	
LA	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534	
LB	135	160	65	90	115	20	45	70	95	120	145	50	75	100	125	150	55	80	
LC	480	480	720	720	720	960	960	960	960	960	960	1200	1200	1200	1200	1200	1440	1440	
A	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360	
C	88.7																		
D	26																		
E	154																		
Weight (kg)	22.0	22.9	23.8	24.7	25.6	26.5	27.4	28.3	29.2	30.1	31.1	32.0	32.9	33.8	34.7	35.6	36.5	37.4	
Stroke (ST)	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	-	
Effective Stroke (ST)	1020	1070	1120	1170	1220	1270	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	-	
LT	1650	1700	1750	1800	1850	1900	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-	
N	15	15	15	15	17	17	17	19	19	21	21	21	23	23	25	25	25	-	
LA	1584	1634	1684	1734	1784	1834	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	-	
LB	105	130	155	60	85	110	135	65	115	45	95	145	75	125	55	105	155	-	
LC	1440	1440	1440	1680	1680	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	-	
A	1583	1633	1683	1733	1783	1833	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	-	
B	360	600	600	600	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	-	
C	88.7																		
D	26																		
E	154																		
Weight (kg)	38.3	39.3	40.2	41.1	42.0	47.0	47.9	49.7	51.5	53.3	55.2	57.0	58.8	60.6	62.5	64.3	66.1	-	

Model Description

LMSSA-18S200-□-□□□□-□□.□□-S-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

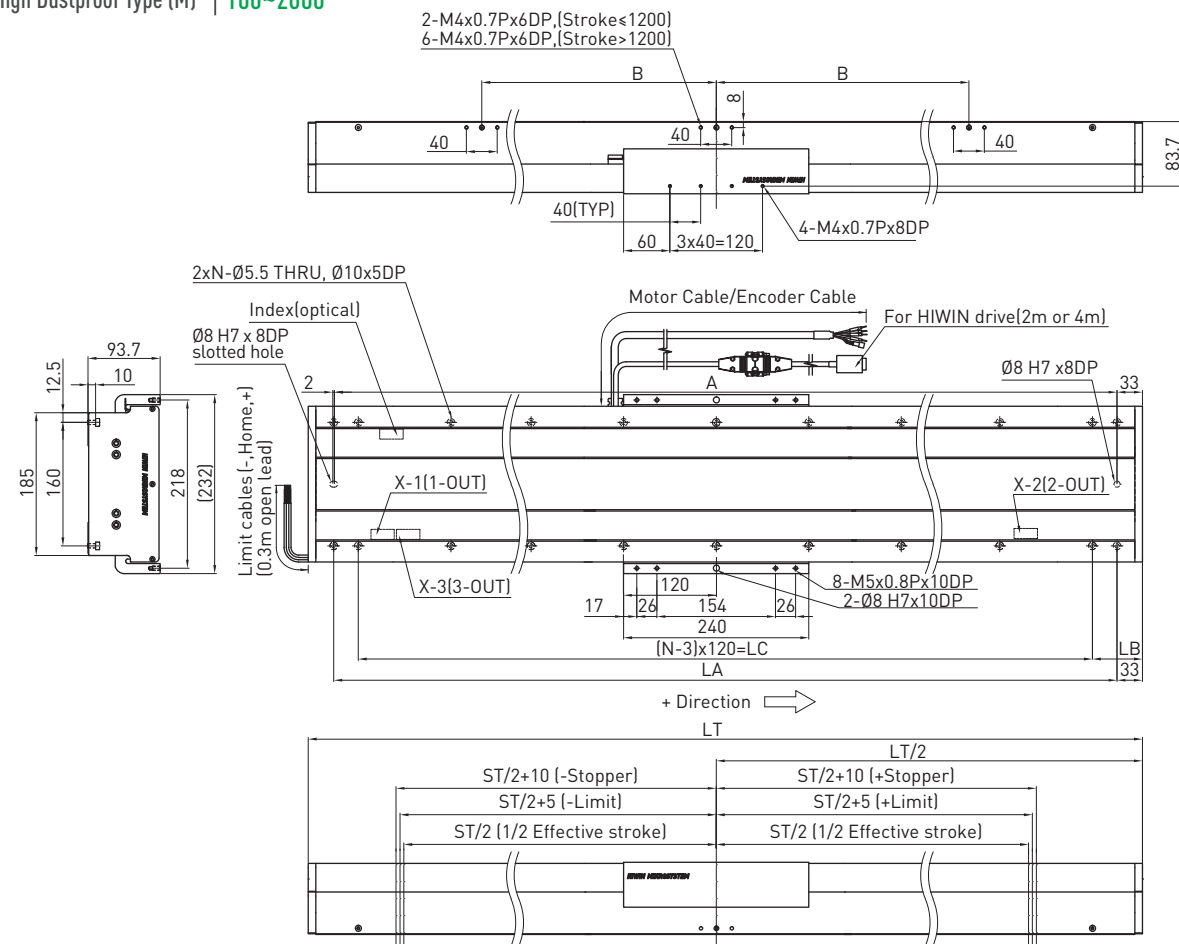
1: Single forcer
2: Dual forcers

Stroke (mm)

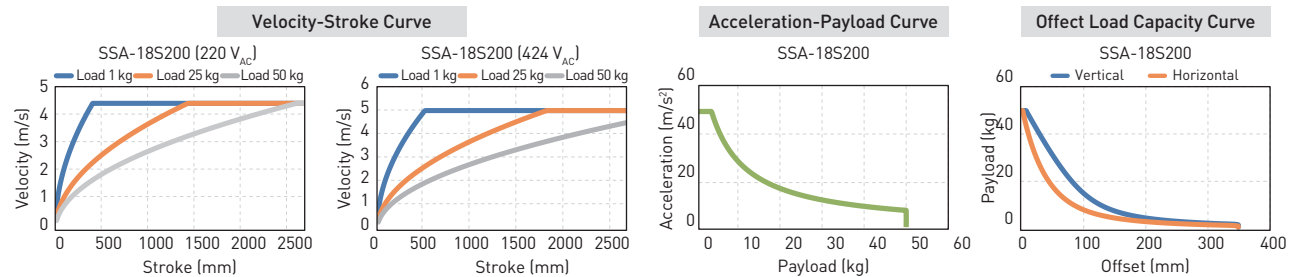
STROKE (mm)
100-2600: Single forcer
100-2300: Dual forcers

SSA-18 Series Single Forcer

SSA-18S200 High Dustproof Type (M)	Stroke 100~2600
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18S200-1-M																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	
N	5	5	5	7	7	7	7	7	9	9	9	11	11	11	11	11	11	13	13	
LA	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	
LB	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50	75	
LC	240	240	240	480	480	480	480	480	720	720	720	960	960	960	960	960	960	1200	1200	
A	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weight (kg)	13.7	14.6	15.7	16.7	17.6	18.6	19.5	20.5	21.4	22.4	23.3	24.2	25.2	26.1	27.1	28.0	29.0	29.9	30.8	
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	
LT	1400	1450	1500	1550	1600	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	
N	13	13	13	15	15	15	15	17	17	19	19	21	21	21	23	23	25	25	25	
LA	1334	1384	1434	1484	1534	1584	1684	1784	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	
LB	100	125	150	55	80	105	155	85	135	65	115	45	95	145	75	125	55	105	155	
LC	1200	1200	1200	1440	1440	1440	1440	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	
A	1333	1383	1433	1483	1533	1583	1683	1783	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	
B	-	-	-	-	360	360	600	600	600	600	840	840	840	840	840	840	1080	1080	1080	
Weight (kg)	31.8	32.7	33.7	34.6	35.6	36.5	38.4	40.3	42.2	44.1	46.0	47.8	49.7	51.6	53.5	55.4	57.3	59.2	61.1	

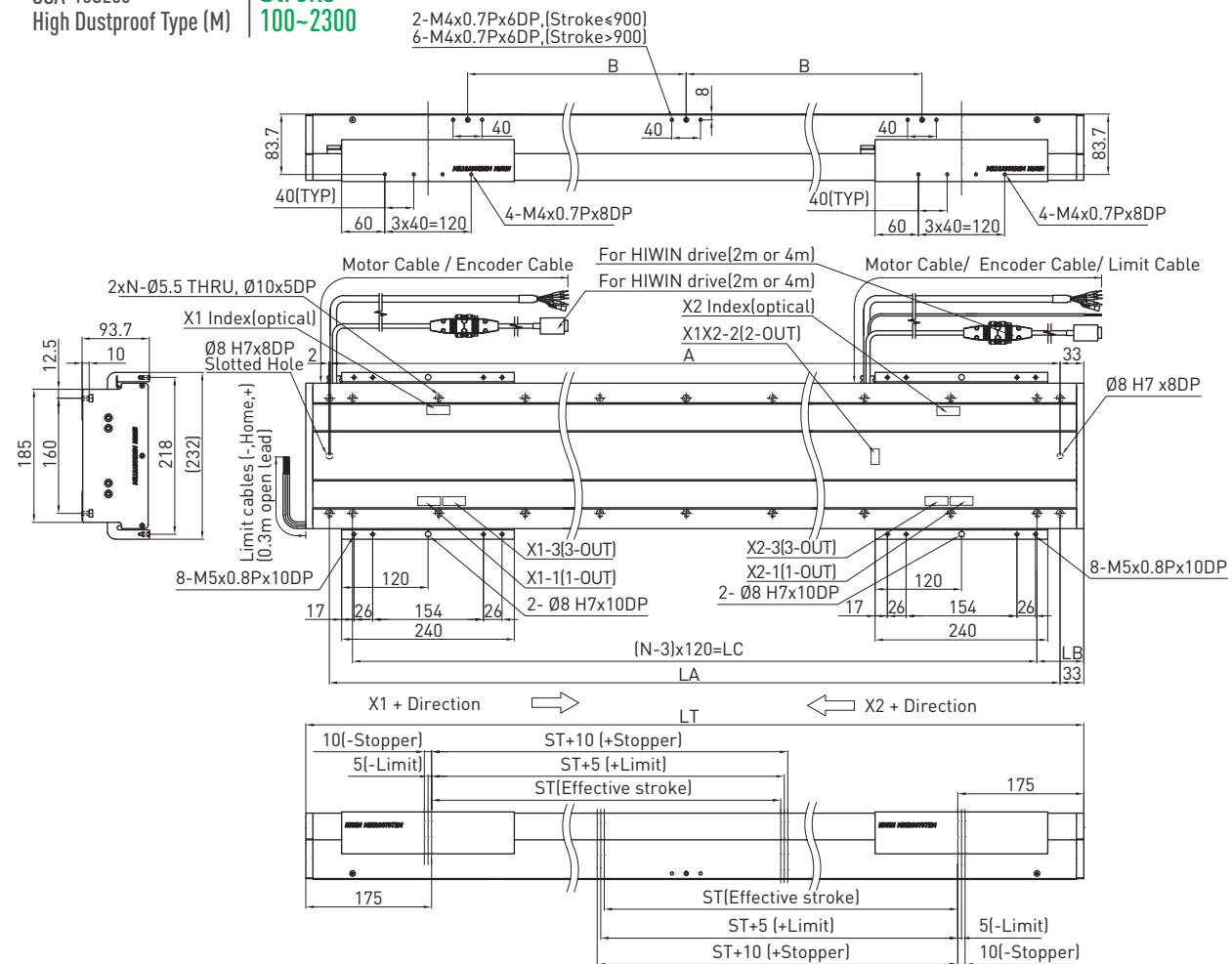


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18S200 High Dustproof Type (M)	Stroke 100~2300
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18S200-2-M																		
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Effective Stroke [ST]	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
N	7	7	9	9	9	11	11	11	11	11	11	13	13	13	13	13	15	15
LA	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534
LB	135	160	65	90	115	20	45	70	95	120	145	50	75	100	125	150	55	80
LC	480	480	720	720	720	960	960	960	960	960	960	1200	1200	1200	1200	1440	1440	1440
A	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360
Weight [kg]	24.9	25.8	26.8	27.7	28.7	29.6	30.5	31.5	32.4	33.4	34.3	35.3	36.2	37.2	38.1	39.0	40.0	40.9
Stroke [ST]	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	-
Effective Stroke [ST]	1020	1070	1120	1170	1220	1270	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	-
LT	1650	1700	1750	1800	1850	1900	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	15	15	15	15	17	17	17	19	19	21	21	21	23	23	25	25	25	-
LA	1584	1634	1684	1734	1784	1834	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	-
LB	105	130	155	60	85	110	135	65	115	45	95	145	75	125	55	105	155	-
LC	1440	1440	1440	1680	1680	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	-
A	1583	1633	1683	1733	1783	1833	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	-
B	360	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080	-
Weight [kg]	41.9	42.8	43.8	44.7	45.6	46.6	47.5	49.4	51.3	53.2	55.0	56.9	58.8	60.7	62.6	64.4	66.3	-

Model Description

LMSSA-18S200-□-□□□□-□□.□□-M-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

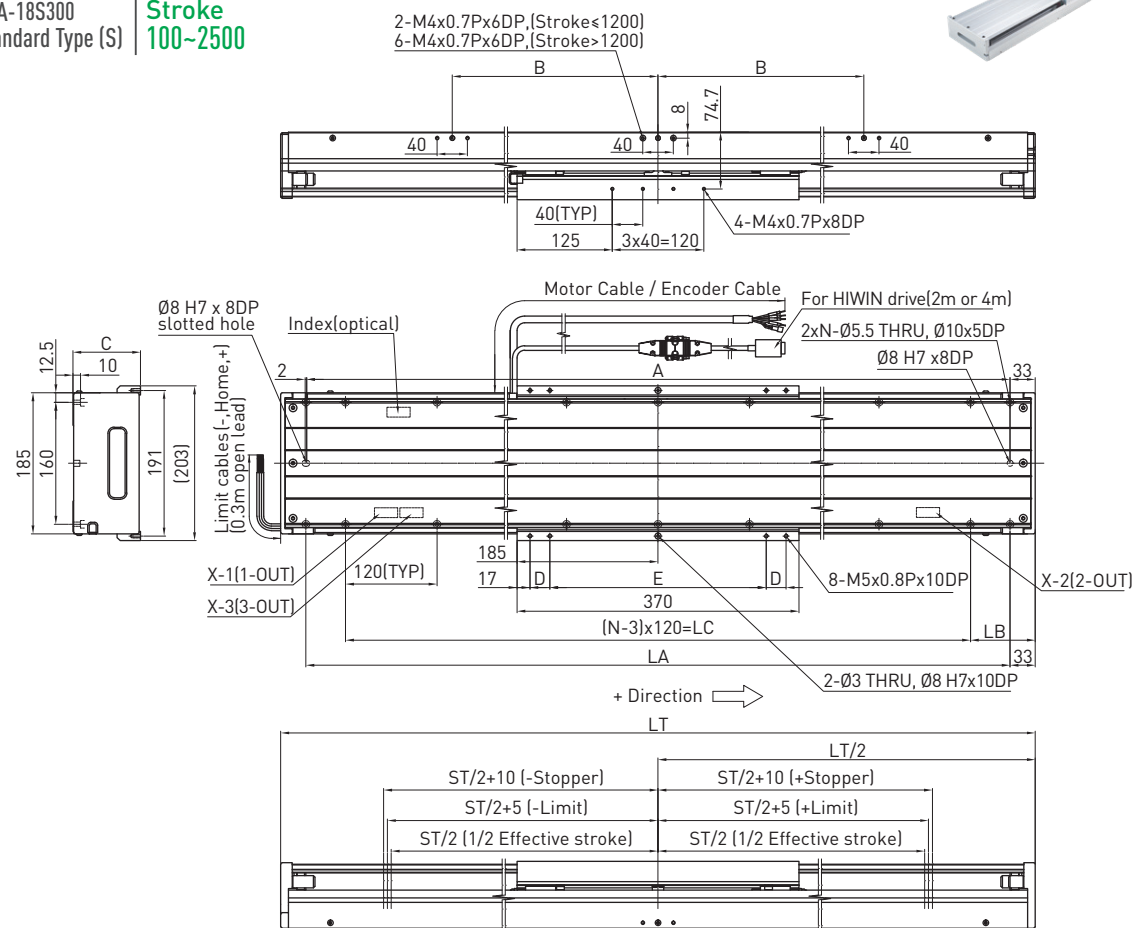
1: Single forcer
2: Dual forcers

Stroke (mm)

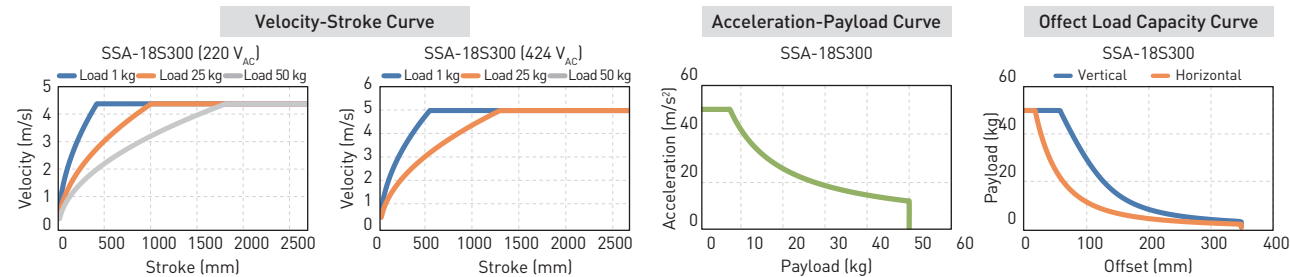
100~2600: Single forcer
100~2300: Dual forcers

SSA-18 Series Single Forcer

SSA-18S300	Stroke
Standard Type (S)	100~2500



18S300-1-S																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	
N	7	7	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15	
LA	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	
LB	50	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	
LC	480	480	480	480	480	720	720	720	720	960	960	960	960	960	1200	1200	1200	1200	1440	
A	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C	88.7																			
D	26																			
E	284																			
Weight (kg)	16.0	17.2	18.4	19.5	20.7	21.8	23.0	24.2	25.3	26.5	27.6	28.8	30.0	31.1	32.3	33.4	34.6	35.8	36.9	
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-	
LT	1530	1580	1630	1680	1730	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	-	
N	15	15	15	15	15	17	17	17	19	19	21	21	21	23	25	25	25	27	-	
LA	1464	1514	1564	1614	1664	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	-	
LB	45	70	95	120	145	50	100	150	80	130	60	110	160	90	20	70	120	50	-	
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	-	
A	1463	1513	1563	1613	1663	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	-	
B	-	-	-	-	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-	
C	88.7										108.7									
D	26										50									
E	284										236									
Weight (kg)	38.1	39.2	40.4	41.6	42.7	43.9	46.2	48.5	53.8	56.2	58.5	60.8	63.1	65.4	67.8	70.1	72.4	74.7	-	

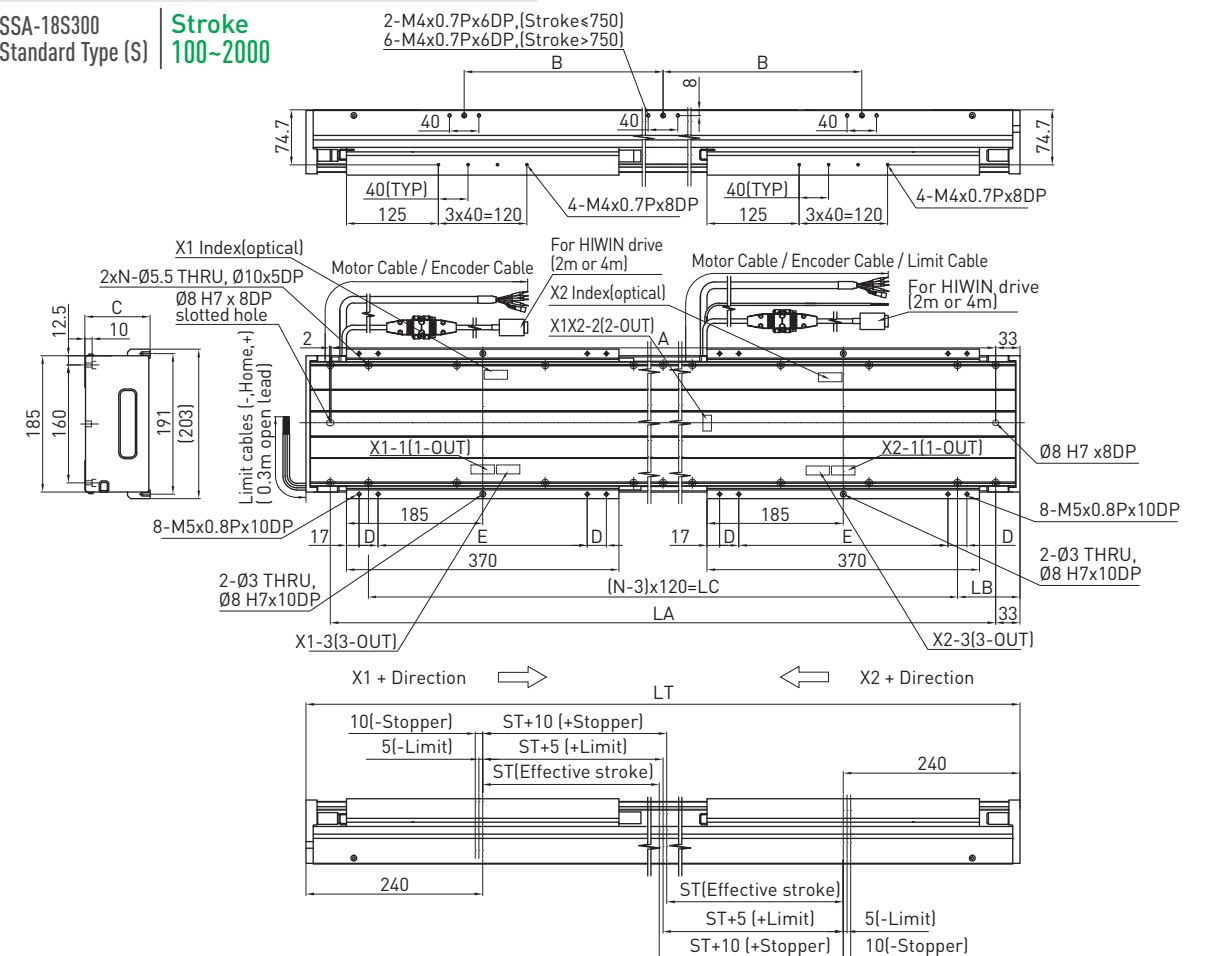


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18S300	Stroke
Standard Type (S)	100~2000



18S300-2-S																
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Effective Stroke (ST)	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890
LT	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
N	9	11	11	11	11	11	13	13	13	15	15	15	15	15	15	17
LA	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714
LB	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50
LC	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680
A	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	600
C	88.7															
D	26															
E	284															
Weight (kg)	32.2	33.3	34.5	35.6	36.8	38.0	39.1	40.3	41.4	42.6	43.8	44.9	46.1	47.2	48.4	49.6
Stroke (ST)	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000
Effective Stroke (ST)	940	990	1040	1080	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840	1940	2040
LT	1830	1880	1930	1590	2030	2080	2130	2180	2230	2330	2430	2530	2630	2730	2830	2930
N	17	17	17	15	19	19	19	19	19	21	21	23	23	25	25	25
LA	1764	1814	1864	1524	1964	2014	2064	2114	2164	2264	2364	2464	2564	2664	2764	2864
LB	75	100	125	75	55	80	105	130	155	85	135	65	115	45	95	145
LC	1680	1680	1680	1440	1920	1920	1920	1920	1920	2160	2160	2400	2400	2640	2640	2640
A	1763	1813	1863	1523	1963	2013	2063	2113	2163	2263	2363	2463	2563	2663	2763	2863
B	600	600	600	360	600	600	600	840	840	840	840	840	840	1080	1080	1080
C	88.7						108.7									
D	26						50									
E	284						236									
Weight (ka)	50.7	51.9	53.0	54.2	61.4	62.5	63.7	64.8	66.0	68.3	70.6	73.0	75.3	77.6	79.9	82.2

Model Description

LMSSA-18S300-□-□□□□-□□.□□-S-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

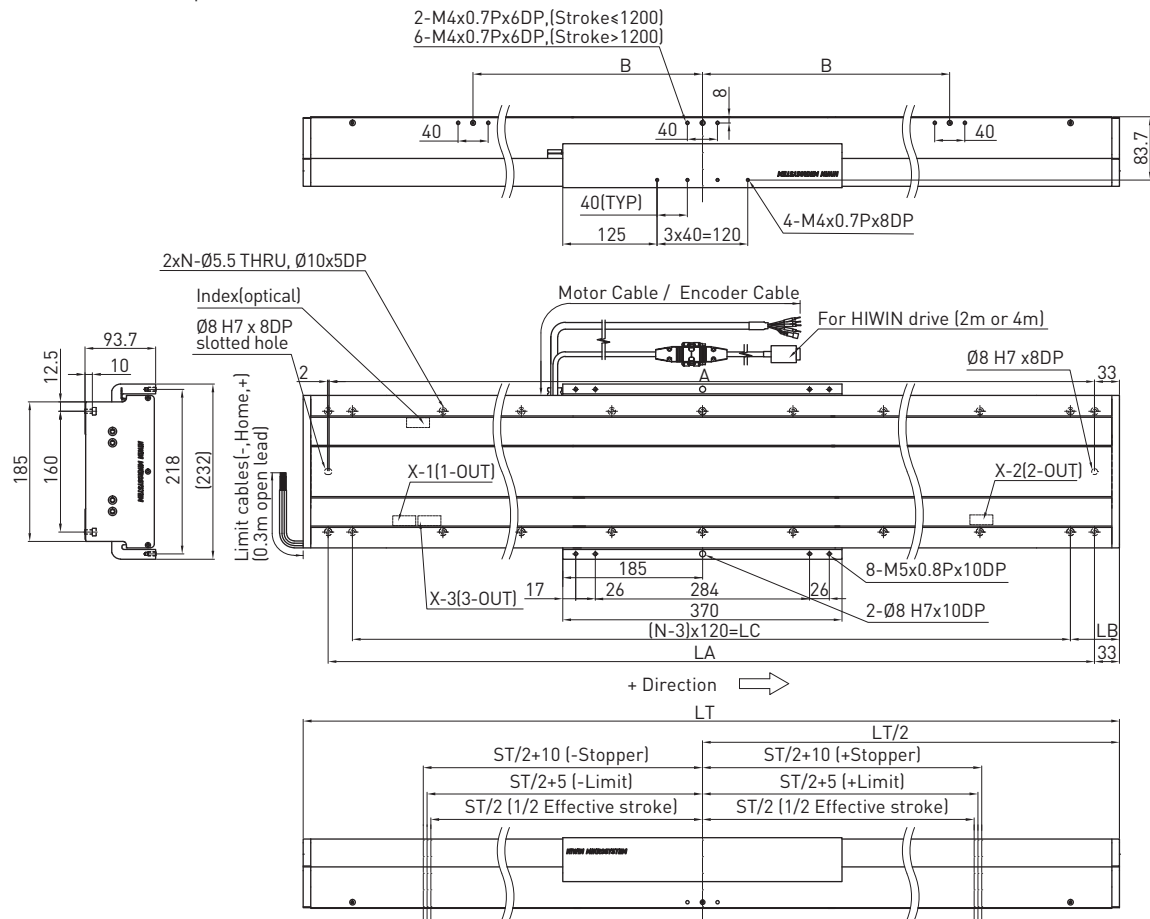
1: Single forcer
2: Dual forcers

Stroke (mm)

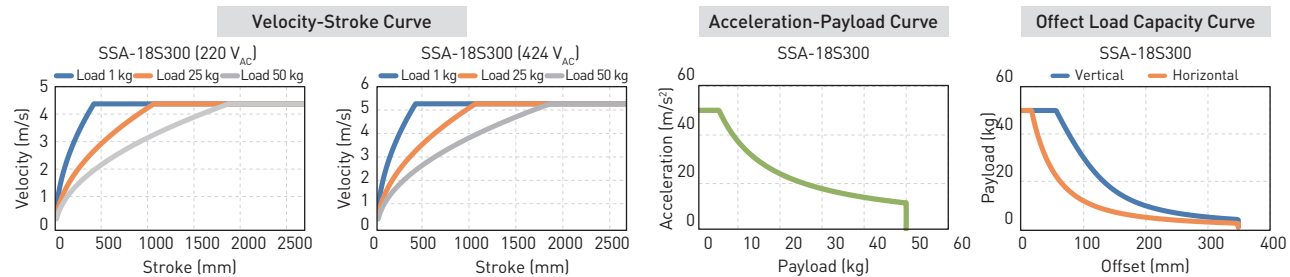
100~2500: Single forcer
100~2000: Dual forcers

SSA-18 Series Single Forcer

SSA-18S300 High Dustproof Type (M)	Stroke 100~2500
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18S300-1-M																				
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	
N	7	7	7	7	7	7	9	9	9	9	11	11	11	11	11	13	13	13	15	
LA	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	
LB	50	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	
LC	480	480	480	480	480	720	720	720	720	960	960	960	960	960	960	1200	1200	1200	1440	
A	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weight (kg)	18.3	19.5	20.7	21.9	23.1	24.2	25.4	26.6	27.8	29.0	30.2	31.4	32.6	33.8	35.0	36.2	37.4	38.5	39.7	
Stroke (ST)	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-	
LT	1530	1580	1630	1680	1730	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	-	
N	15	15	15	15	15	17	17	17	19	19	21	21	21	23	25	25	25	27	-	
LA	1464	1514	1564	1614	1664	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	-	
LB	45	70	95	120	145	50	100	150	80	130	60	110	160	90	20	70	120	50	-	
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	-	
A	1463	1513	1563	1613	1663	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	-	
B	-	-	-	-	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-	
Weight (kg)	40.9	42.1	43.3	44.5	45.7	46.9	49.3	51.7	54.0	56.4	58.8	61.2	63.6	66.0	68.3	70.7	73.1	75.5	-	

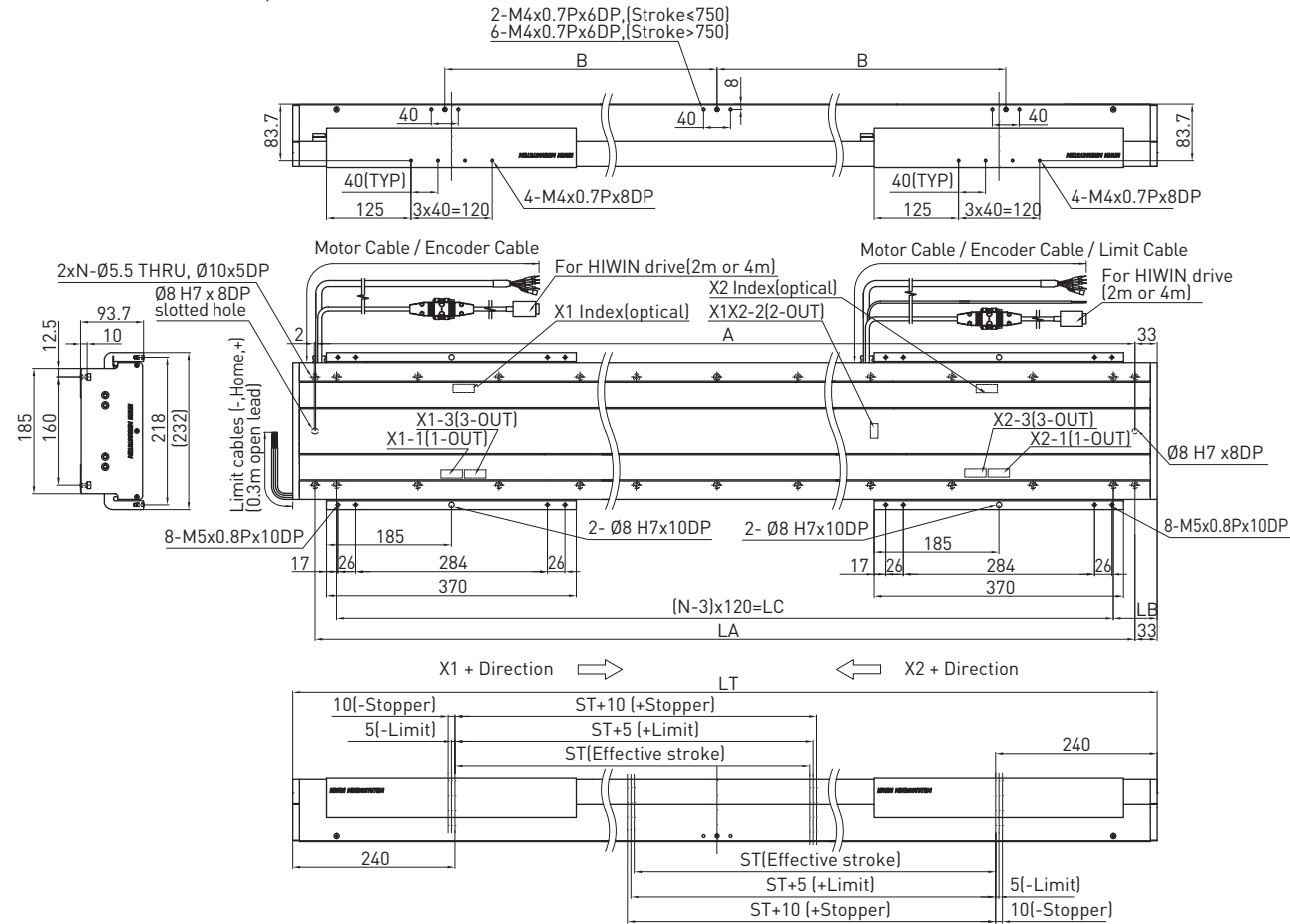


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18S300 High Dustproof Type (M)	Stroke 100~2000
---------------------------------------	--------------------



18S300-2-M																
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Effective Stroke (ST)	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890
LT	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
N	9	11	11	11	11	11	13	13	13	15	15	15	15	15	15	17
LA	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714
LB	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50
LC	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680
A	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	600
Weight (kg)	36.7	37.9	39.1	40.3	41.5	42.7	43.9	45.1	46.2	47.4	48.6	49.8	51.0	52.2	53.4	54.6
Stroke (ST)	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000
Effective Stroke (ST)	940	990	1040	1090	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840	1940	2040
LT	1830	1880	1930	1980	2030	2080	2130	2180	2230	2330	2430	2530	2630	2730	2830	2930
N	17	17	17	17	19	19	19	19	19	21	21	23	23	25	25	25
LA	1764	1814	1864	1914	1964	2014	2064	2114	2164	2264	2364	2464	2564	2664	2764	2864
LB	75	100	125	150	55	80	105	130	155	85	135	65	115	45	95	145
LC	1680	1680	1680	1680	1920	1920	1920	1920	1920	2160	2160	2400	2400	2640	2640	2640
A	1763	1813	1863	1913	1963	2013	2063	2113	2163	2263	2363	2463	2563	2663	2763	2863
B	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080
Weight (kg)	55.8	57.0	58.2	59.4	60.5	61.7	62.9	64.1	65.3	67.7	70.1	72.5	74.8	77.2	79.6	82.0

Model Description

LMSSA-18S300-□-□□□□-□□.□□-M-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

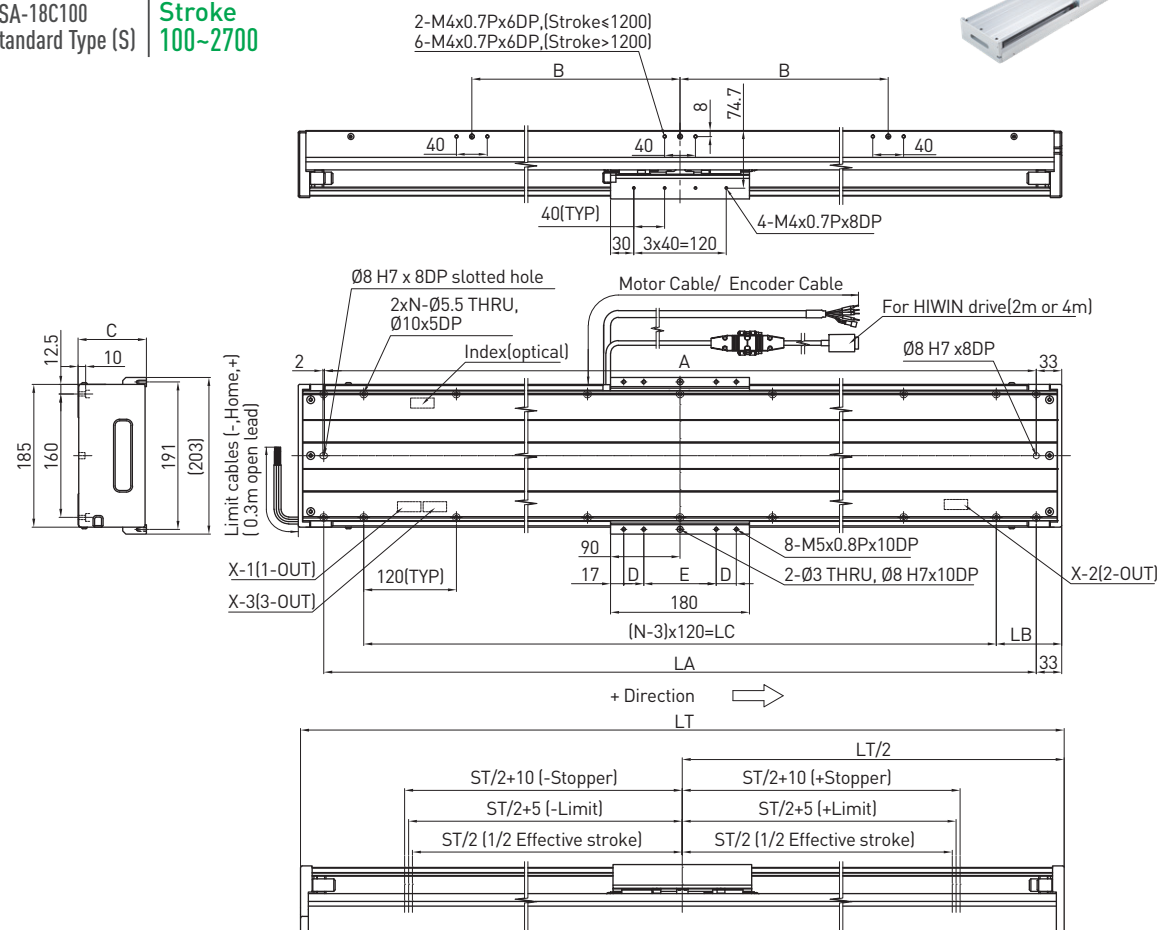
- 1: Single forcer
- 2: Dual forcers

Stroke (mm)

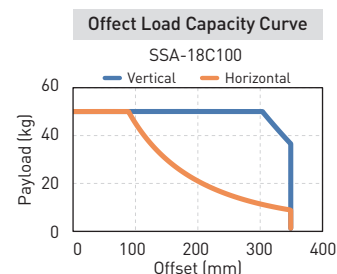
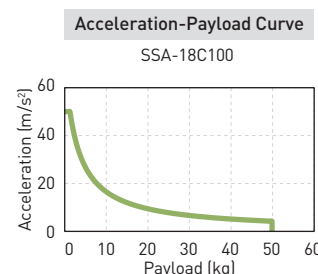
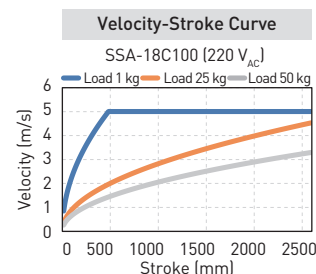
100~2500: Single forcer
100~2000: Dual forcers

SSA-18 Series Single Forcer

SSA-18C100	Stroke
Standard Type (S)	100~2700



18C100-1-S																					
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
LT	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	
N	5	5	5	5	7	7	7	7	7	9	9	9	9	9	11	11	11	13	13	13	
LA	324	374	424	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	
LB	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	45	70	
LC	240	240	240	240	480	480	480	480	480	720	720	720	720	720	960	960	960	1200	1200	1200	
A	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C	88.7																				
D	26																				
E	94																				
Weight (kg)	13.5	14.5	15.9	17.0	18.1	19.2	20.3	21.4	22.5	23.7	24.8	25.9	27.0	28.1	29.2	30.3	31.4	32.6	33.7	34.8	
Stroke (ST)	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	-	
LT	1390	1440	1490	1540	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	-	
N	13	13	13	15	15	15	17	17	17	19	19	21	21	23	23	23	25	25	27	-	
LA	1324	1374	1424	1474	1524	1624	1724	1824	1924	2024	2124	2224	2324	2424	2524	2624	2724	2824	2924	-	
LB	95	120	145	50	75	125	55	105	155	85	135	65	115	45	95	145	75	125	55	-	
LC	1200	1200	1200	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2400	2400	2400	2640	2640	2880	-	
A	1323	1373	1423	1473	1523	1623	1723	1823	1923	2023	2123	2223	2323	2423	2523	2623	2723	2823	2923	-	
B	-	-	-	360	360	360	600	600	600	600	840	840	840	840	1080	1080	1080	1080	1080	-	
C	88.7							108.7													-
D	26							50													-
E	94							46													-
Weight (ka)	35.9	37.0	38.1	39.2	40.3	42.6	44.8	48.2	50.4	52.7	54.9	57.1	59.3	61.5	63.8	66.0	68.2	70.4	72.7	-	

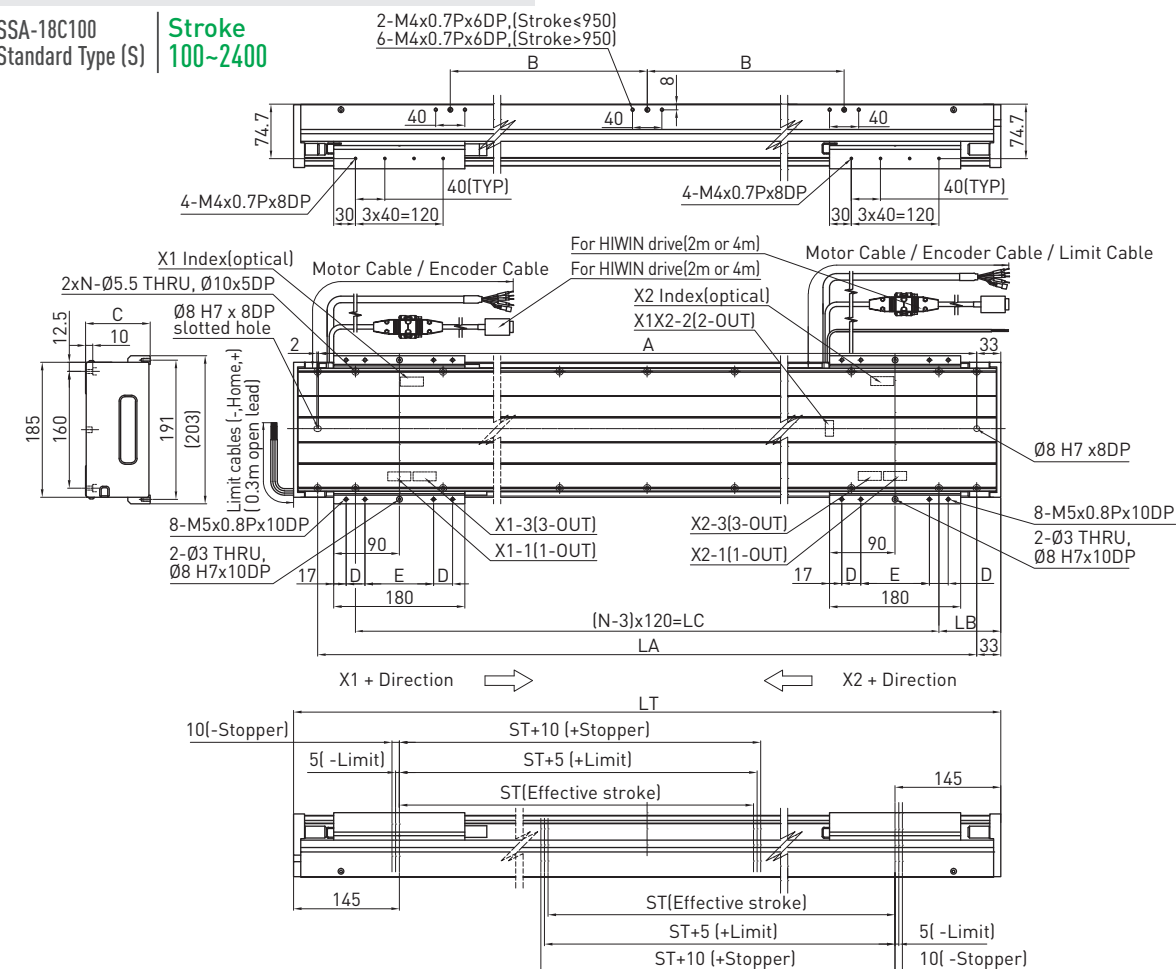


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18C100	Stroke
Standard Type (S)	100~2400



18C100-2-S																		
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Effective Stroke (ST)	130	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980
LT	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490
N	7	7	7	7	9	9	9	9	9	11	11	11	13	13	13	13	13	13
LA	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424
LB	80	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145
LC	480	480	480	480	720	720	720	720	720	960	960	960	1200	1200	1200	1200	1200	1200
A	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	88.7																	
D	26																	
E	94																	
Weight (kg)	21.9	23.0	24.1	25.2	26.3	27.5	28.6	29.7	30.8	31.9	33.0	34.1	35.2	36.3	37.5	38.6	39.7	40.8
Stroke (ST)	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Effective Stroke (ST)	1030	1080	1130	1180	1230	1280	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430
LT	1540	1590	1640	1690	1740	1790	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940
N	15	15	15	15	15	17	17	17	19	19	19	21	23	23	23	25	25	25
LA	1474	1524	1574	1624	1674	1724	1774	1874	1974	2074	2174	2274	2374	2474	2574	2674	2774	2874
LB	50	75	100	125	150	55	80	130	60	110	160	90	20	70	120	50	100	150
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	1920	2160	2400	2400	2400	2640	2640	2640
A	1473	1523	1573	1623	1673	1723	1773	1873	1973	2073	2173	2273	2373	2473	2573	2673	2773	2873
B	360	360	360	360	600	600	600	600	600	600	840	840	840	840	840	1080	1080	1080
C	88.7						108.7											
D	26						50											
E	94						46											
Weight (ka)	41.9	43.0	44.1	45.2	46.3	47.5	51.0	53.2	55.4	57.6	59.9	62.1	64.3	66.5	68.8	71.0	73.2	75.4

Model Description

LMSSA-18C100-□-□□□□-□□.□□-S-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

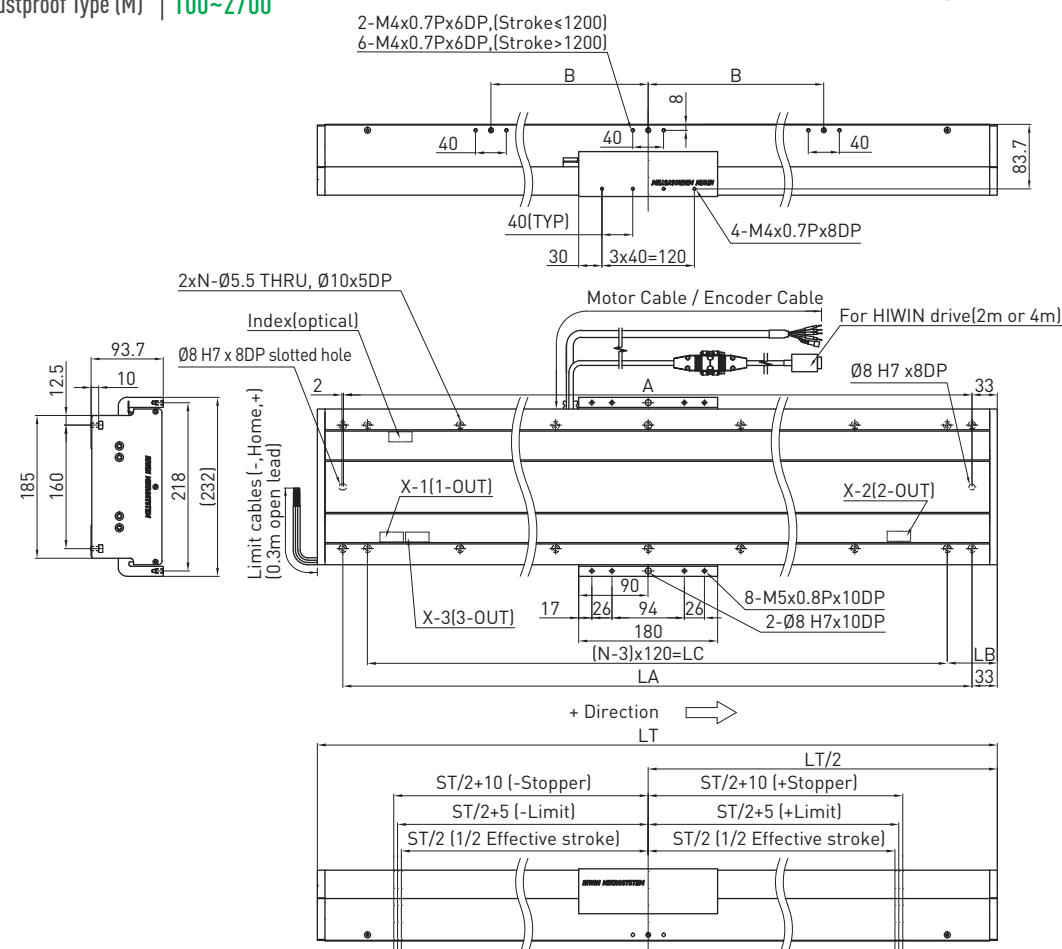
1: Single forcer
2: Dual forcers

Stroke (mm)

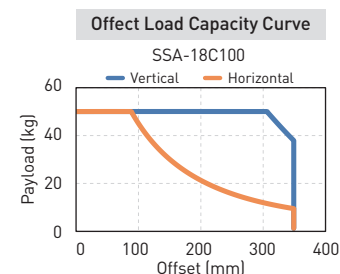
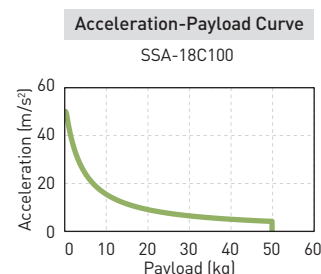
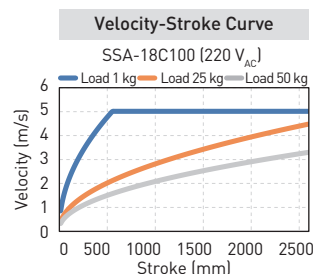
100~2700: Single forcer
100~2400: Dual forcers

SSA-18 Series Single Forcer

SSA-18C100 High Dustproof Type (M)	Stroke 100~2700
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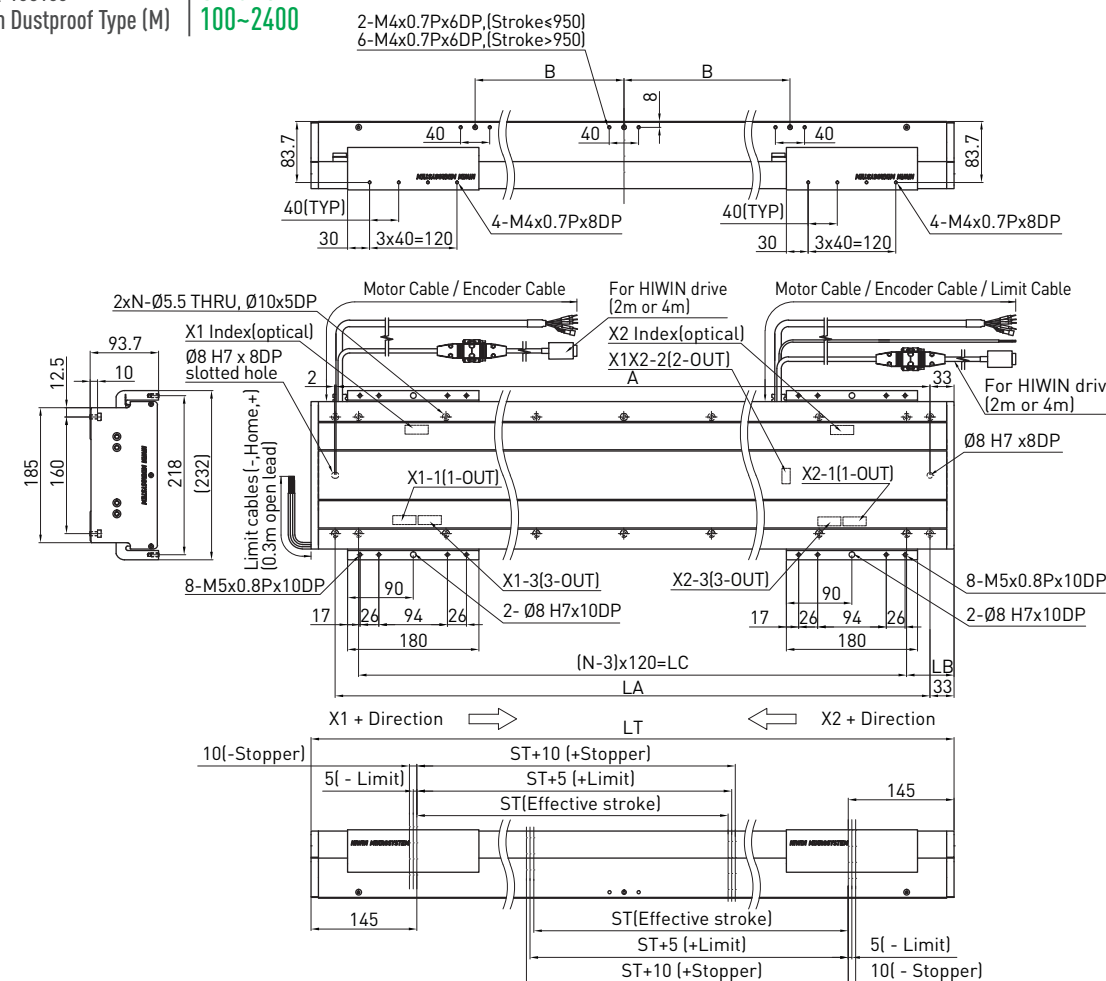
18C100-1-M																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
LT	390	440	490	540	590	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340
N	5	5	5	5	7	7	7	7	7	9	9	9	9	9	11	11	11	13	13	13
LA	324	374	424	474	524	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274
LB	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	45	70
LC	240	240	240	240	480	480	480	480	480	720	720	720	720	720	960	960	960	1200	1200	1200
A	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight (kg)	14.6	15.7	17.0	18.2	19.3	20.5	21.6	22.8	23.9	25.0	26.2	27.3	28.5	29.6	30.8	31.9	33.0	34.2	35.3	36.5
Stroke (ST)	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	-
LT	1390	1440	1490	1540	1590	1690	1790	1890	1990	2090	2190	2290	2390	2490	2590	2690	2790	2890	2990	-
N	13	13	13	15	15	15	17	17	17	19	19	21	21	23	23	23	25	25	27	-
LA	1324	1374	1424	1474	1524	1624	1724	1824	1924	2024	2124	2224	2324	2424	2524	2624	2724	2824	2924	-
LB	95	120	145	50	75	125	55	105	155	85	135	65	115	45	95	145	75	125	55	-
LC	1200	1200	1200	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2400	2400	2400	2640	2640	2880	-
A	1323	1373	1423	1473	1523	1623	1723	1823	1923	2023	2123	2223	2323	2423	2523	2623	2723	2823	2923	-
B	-	-	-	-	360	360	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-
Weight (kg)	37.6	38.8	39.9	41.0	42.2	44.5	46.8	49.3	51.5	53.8	56.1	58.4	60.7	63.0	65.3	67.5	69.8	72.1	74.4	-



- Note:
1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
 2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
 3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
 4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18C100 High Dustproof Type (M)	Stroke 100~2400
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18C100-2-M																		
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Effective Stroke [ST]	130	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980
LT	640	690	740	790	840	890	940	990	1040	1090	1140	1190	1240	1290	1340	1390	1440	1490
N	7	7	7	7	9	9	9	9	9	11	11	11	13	13	13	13	13	13
LA	574	624	674	724	774	824	874	924	974	1024	1074	1124	1174	1224	1274	1324	1374	1424
LB	80	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145
LC	480	480	480	480	720	720	720	720	720	960	960	960	1200	1200	1200	1200	1200	1200
A	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173	1223	1273	1323	1373	1423
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight (kg)	24.1	25.3	26.4	27.6	28.7	29.8	31.0	32.1	33.3	34.4	35.6	36.7	37.8	39.0	40.1	41.3	42.4	43.6
Stroke [ST]	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
Effective Stroke [ST]	1030	1080	1130	1180	1230	1280	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330	2430
LT	1540	1590	1640	1690	1740	1790	1840	1940	2040	2140	2240	2340	2440	2540	2640	2740	2840	2940
N	15	15	15	15	15	17	17	17	19	19	19	21	23	23	23	25	25	25
LA	1474	1524	1574	1624	1674	1724	1774	1874	1974	2074	2174	2274	2374	2474	2574	2674	2774	2874
LB	50	75	100	125	150	55	80	130	60	110	160	90	20	70	120	50	100	150
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	1920	2160	2400	2400	2400	2640	2640	2640
A	1473	1523	1573	1623	1673	1723	1773	1873	1973	2073	2173	2273	2373	2473	2573	2673	2773	2873
B	360	360	360	360	600	600	600	600	600	600	840	840	840	840	840	1080	1080	1080
Weight (kg)	44.7	45.9	47.0	48.1	49.3	50.4	51.6	53.9	56.1	58.4	60.7	63.0	65.3	67.6	69.9	72.2	74.5	76.7

Model Description

LMSSA-18C100-□-□□□□-□□.□□-M-S-A0000

Cables

Please refer to page
5, 9, 11

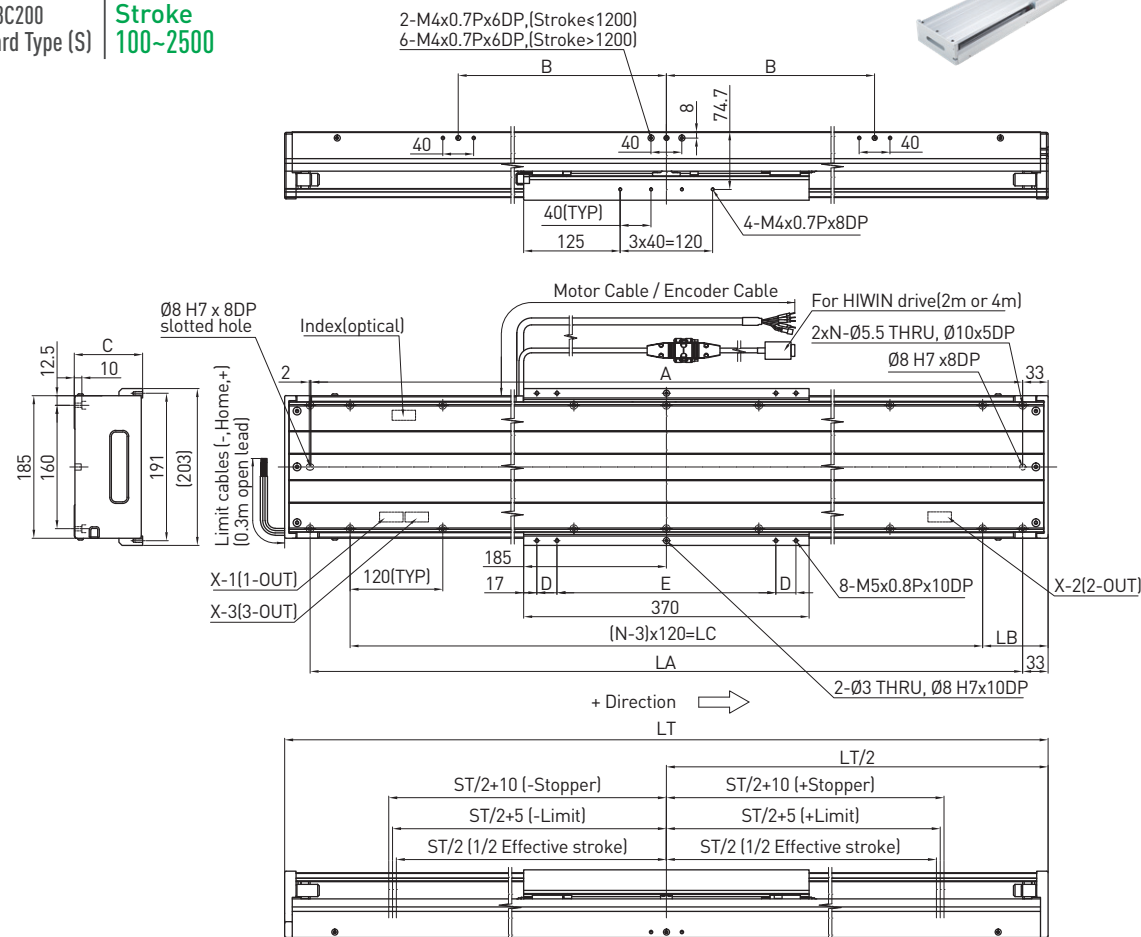
Number of forcers

- 1: Single forcer
- 2: Dual forcers

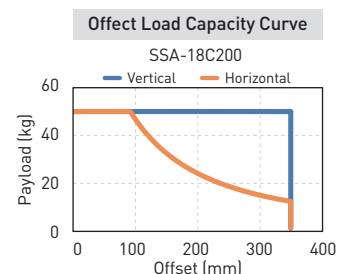
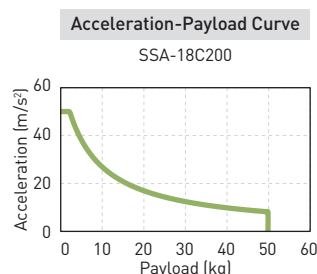
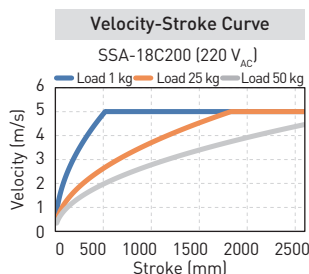
Stroke (mm)

100~2700: Single forcer
100~2400: Dual forcers

SSA-18 Series Single Forcer

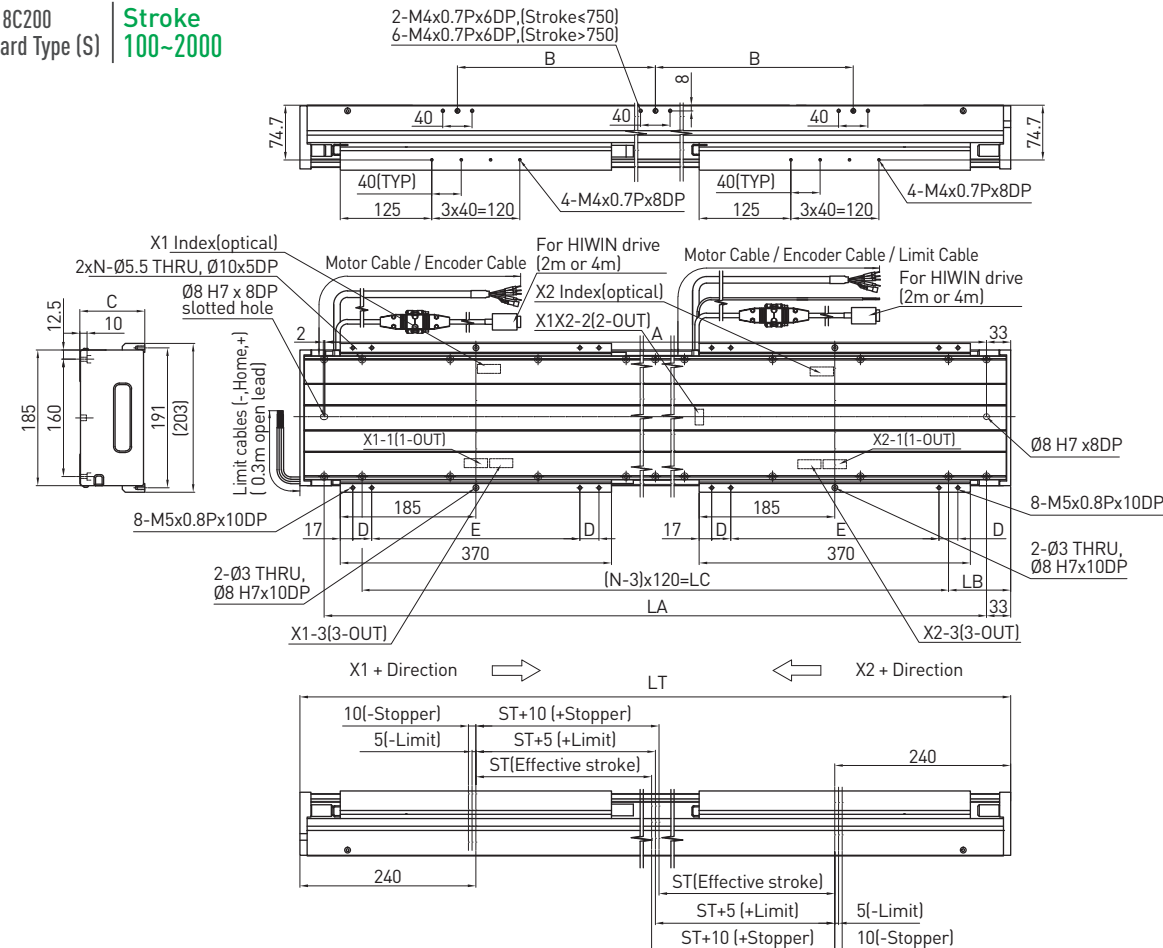
SSA-18C200
Standard Type (S) **Stroke
100~2500**

18C200-1-S																			
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
N	7	7	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15
LA	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414
LB	50	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20
LC	480	480	480	480	480	720	720	720	720	960	960	960	960	960	1200	1200	1200	1200	1440
A	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	88.7																		
D	26																		
E	284																		
Weight [kg]	19.2	20.3	21.7	22.9	24.1	25.2	26.4	27.5	28.7	29.9	31.0	32.2	33.3	34.5	35.7	36.8	38.0	39.1	40.3
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-
LT	1530	1580	1630	1680	1730	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	-
N	15	15	15	15	15	17	17	17	19	19	21	21	21	23	25	25	25	27	-
LA	1464	1514	1564	1614	1664	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	-
LB	45	70	95	120	145	50	100	150	80	130	60	110	160	90	20	70	120	50	-
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	-
A	1463	1513	1563	1613	1663	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	-
B	-	-	-	-	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-
C	88.7																		
D	26																		
E	284																		
Weight [kg]	41.5	42.6	43.8	44.9	46.1	47.3	49.6	51.9	57.2	59.5	61.9	64.2	66.5	68.8	71.1	73.5	75.8	78.1	-



- Note:
- When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
 - The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
 - To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
 - For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18C200
Standard Type (S) **Stroke
100~2000**

18C200-2-S																			
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850			
Effective Stroke [ST]	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890			
LT	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780			
N	9	11	11	11	11	11	13	13	13	15	15	15	15	15	15	17			
LA	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714			
LB	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50			
LC	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680			
A	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713			
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600			
C	88.7																		
D	26																		
E	284																		
Weight [kg]	34.5	35.6	36.7	37.9	39.0	40.2	41.4	42.5	43.7	44.8	46.0	47.2	48.3	49.5	50.6	51.8			
Stroke [ST]	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000			
Effective Stroke [ST]	940	990	1040	1080	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840	1940	2040			
LT	1830	1880	1930	1980	2030	2080	2130	2180	2230	2330	2430	2530	2630	2730	2830	2930			
N	17	17	17	17	19	19	19	19	19	21	21	23	23	25	25	25			
LA	1764	1814	1864	1914	1964	2014	2064	2114	2164	2264	2364	2464	2564	2664	2764	2864			
LB	75	100	125	150	55	80	105	130	155	85	135	65	115	45	95	145			
LC	1680	1680	1680	1680	1920	1920	1920	1920	2160	2160	2400	2400	2400	2640	2640	2640			
A	1763	1813	1863	1913	1963	2013	2063	2113	2163	2263	2363	2463	2563	2663	2763	2863			
B	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080			
C	88.7																		
D	26																		
E	284																		
Weight [kg]	53.0	54.1	55.3	56.4	63.6	64.8	65.9	67.1	68.2	70.6	72.9	75.2	77.5	79.8	82.2	84.5			

Model Description

LMSSA-18C200-□-□□□□-□□.□□-S-S-A0000

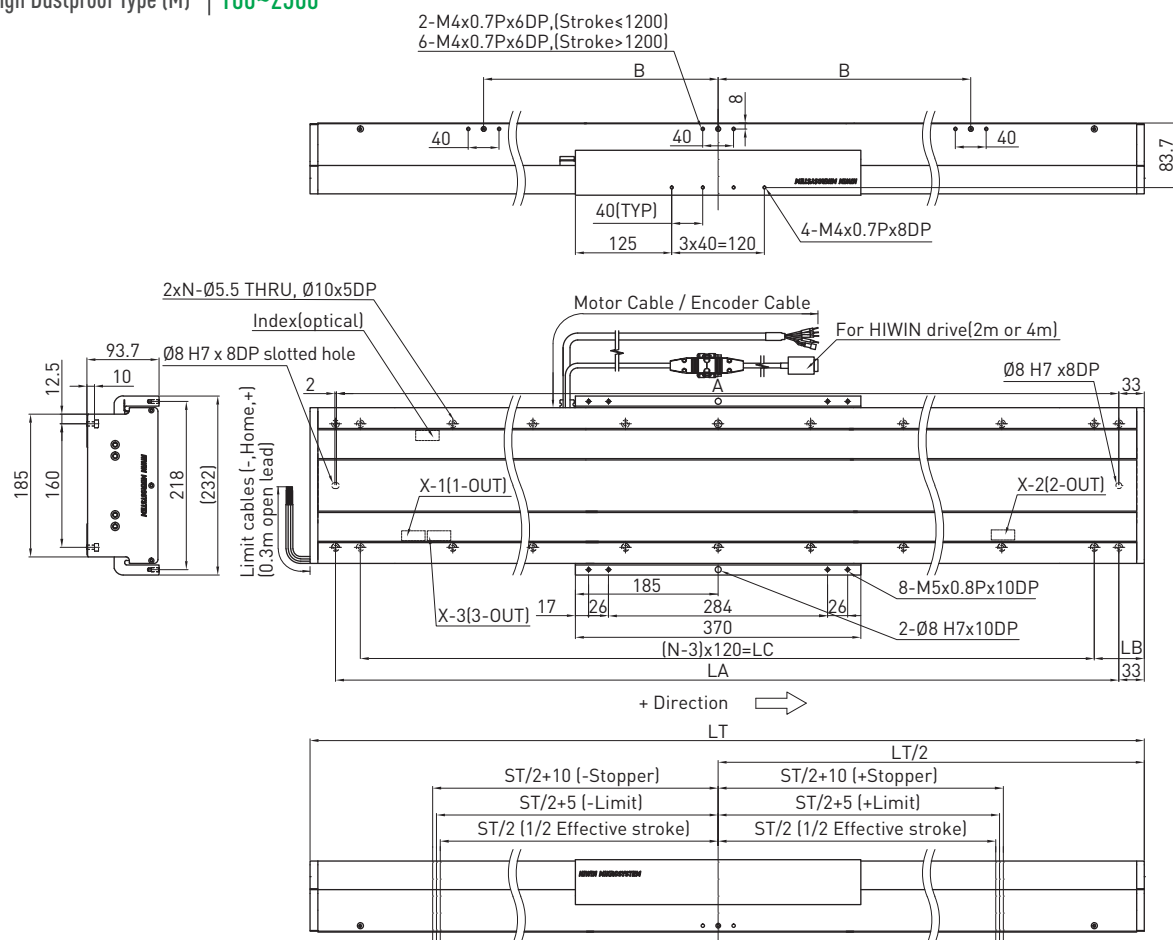
Cables
Please refer to page 5, 9, 11

Number of forcers
1: Single forcer
2: Dual forcers

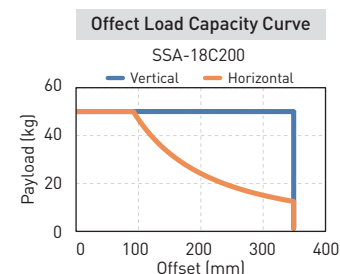
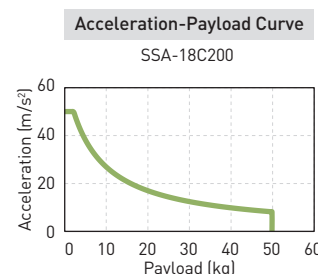
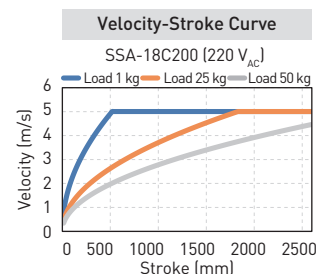
Stroke (mm)
100~2500: Single forcer
100~2000: Dual forcers

SSA-18 Series Single Forcer

SSA-18C200 High Dustproof Type (M)	Stroke 100~2500
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18C200-1-M																			
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
N	7	7	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15
LA	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414
LB	50	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20
LC	480	480	480	480	480	720	720	720	720	720	960	960	960	960	960	1200	1200	1200	1440
A	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight [kg]	21.5	22.6	24.0	25.2	26.4	27.6	28.8	30.0	31.2	32.4	33.6	34.8	36.0	37.2	38.3	39.5	40.7	41.9	43.1
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-
LT	1530	1580	1630	1680	1730	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	-
N	15	15	15	15	15	17	17	17	19	19	21	21	21	23	25	25	25	27	-
LA	1464	1514	1564	1614	1664	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	-
LB	45	70	95	120	145	50	100	150	80	130	60	110	160	90	20	70	120	50	-
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	-
A	1463	1513	1563	1613	1663	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	-
B	-	-	-	-	-	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-
Weight [kg]	44.3	45.5	46.7	47.9	49.1	50.3	52.6	55.0	57.4	59.8	62.2	64.6	67.0	69.3	71.7	74.1	76.5	78.9	-

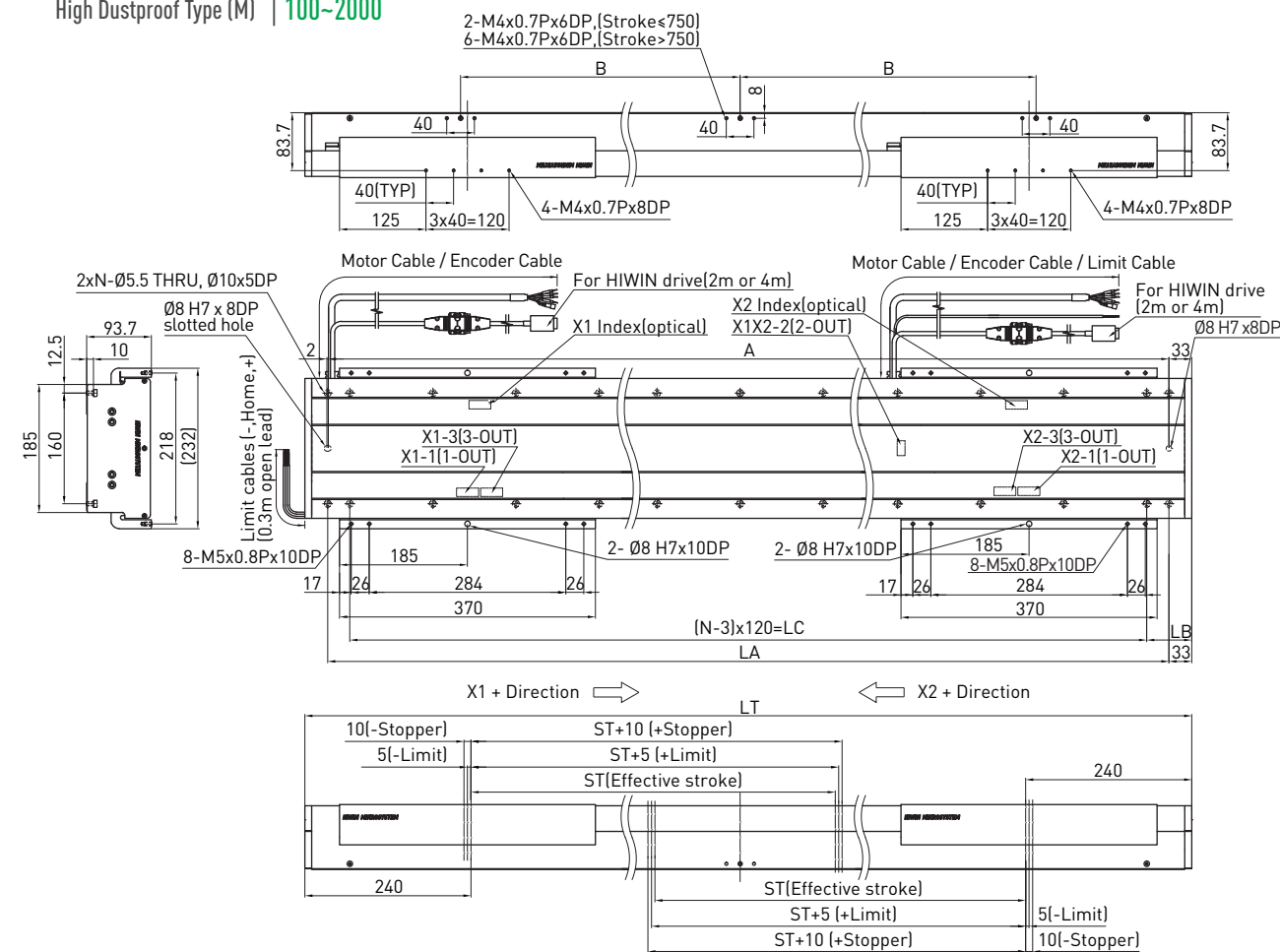


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-18 Series Dual Forcers

SSA-18C200 High Dustproof Type (M)	Stroke 100~2000
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18C200-2-M																
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Effective Stroke [ST]	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890
LT	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
N	9	11	11	11	11	11	13	13	13	15	15	15	15	15	15	17
LA	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714
LB	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50
LC	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680
A	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	600
Weight [kg]	39.0	40.1	41.3	42.5	43.7	44.9	46.1	47.3	48.5	49.7	50.9	52.1	53.3	54.4	55.6	56.8
Stroke [ST]	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000
Effective Stroke [ST]	940	990	1040	1090	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840	1940	2040
LT	1830	1880	1930	1980	2030	2080	2130	2180	2230	2330	2430	2530	2630	2730	2830	2930
N	17	17	17	17	19	19	19	19	19	21	21	23	23	25	25	25
LA	1764	1814	1864	1914	1964	2014	2064	2114	2164	2264	2364	2464	2564	2664	2764	2864
LB	75	100	125	150	55	80	105	130	155	85	135	65	115	45	95	145
LC	1680	1680	1680	1680	1920	1920	1920	1920	1920	2160	2160	2400	2400	2640	2640	2640
A	1763	1813	1863	1913	1963	2013	2063	2113	2163	2263	2363	2463	2563	2663	2763	2863
B	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080
Weight [kg]	58.0	59.2	60.4	61.6	62.8	64.0	65.2	66.4	67.6	69.9	72.3	74.7	77.1	79.5	81.9	84.2

Model Description

LMSSA-18C200-□-□□□□-□□.□□-**M-S-A0000**

Cables

Please refer to page
5, 9, 11

Number of forcers

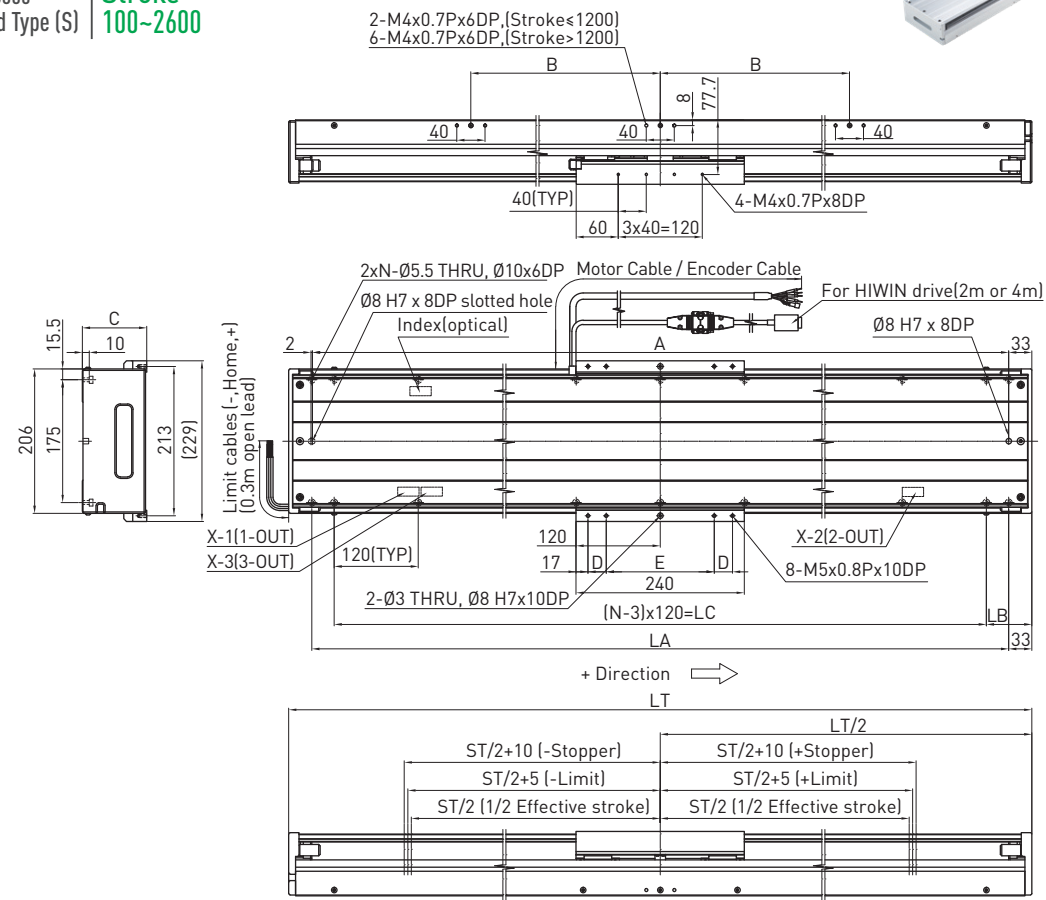
- 1: Single forcer
- 2: Dual forcers

Stroke (mm)

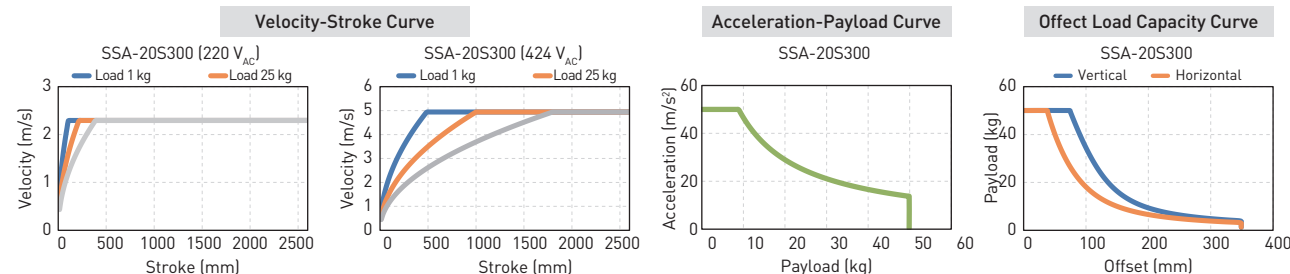
100~2500: Single forcer
100~2000: Dual forcers

SSA-20 Series Single Forcer

SSA-20S300	Stroke
Standard Type (S)	100~2600



20S300-1-S																			
Stroke (ST)	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
N	5	5	5	7	7	7	7	7	9	9	9	11	11	11	11	11	13	13	13
LA	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284
LB	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50	75
LC	240	240	240	480	480	480	480	480	720	720	720	960	960	960	960	960	960	1200	1200
A	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	91.7																		
D	26																		
E	154																		
Weight (kg)	15.5	16.5	18.0	19.1	20.2	21.3	22.4	23.5	24.6	25.7	26.8	27.9	29.0	30.1	31.2	32.3	33.4	34.5	35.6
Stroke (ST)	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
LT	1400	1450	1500	1550	1600	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
N	13	13	13	15	15	15	15	17	17	19	19	21	21	21	23	23	25	25	25
LA	1334	1384	1434	1484	1534	1584	1684	1784	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884
LB	100	125	150	55	80	105	155	85	135	65	115	45	95	145	75	125	55	105	155
LC	1200	1200	1200	1440	1440	1440	1440	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640
A	1333	1383	1433	1483	1533	1583	1683	1783	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883
B	-	-	-	-	360	360	600	600	600	600	600	840	840	840	840	1080	1080	1080	1080
C	91.7									111.7									
D	26									50									
E	154									106									
Weight (kg)	36.7	37.8	38.9	40.0	41.1	42.2	44.4	46.6	50.8	53.0	55.2	57.4	59.6	61.8	64.0	66.2	68.4	70.6	72.8

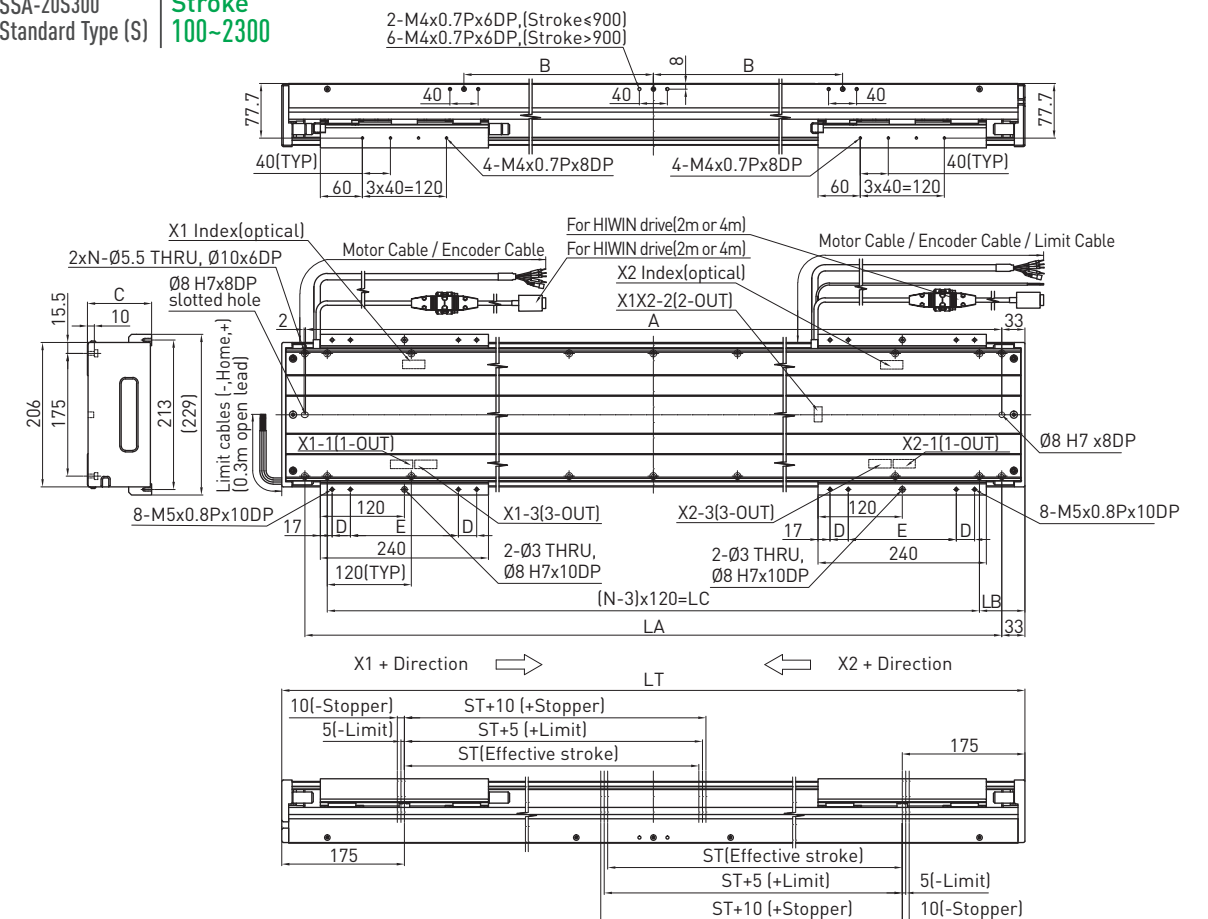


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20S300	Stroke
Standard Type (S)	100~2300



205300-2-S																		
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Effective Stroke [ST]	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
N	7	7	9	9	9	11	11	11	11	11	11	13	13	13	13	13	15	15
LA	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534
LB	135	160	65	90	115	20	45	70	95	120	145	50	75	100	125	150	55	80
LC	480	480	720	720	720	960	960	960	960	960	960	1200	1200	1200	1200	1200	1440	1440
A	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360
C	91.7																	
D	26																	
E	154																	
Weight [kg]	28.0	29.1	30.2	31.3	32.4	33.5	34.6	35.7	36.8	37.9	39.0	40.1	41.2	42.3	43.4	44.5	45.6	46.7
Stroke [ST]	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	-
Effective Stroke [ST]	1020	1070	1120	1170	1220	1270	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	-
LT	1650	1700	1750	1800	1850	1900	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	15	15	15	15	17	17	17	19	19	21	21	21	23	23	25	25	25	-
LA	1584	1634	1684	1734	1784	1834	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	-
LB	105	130	155	60	85	110	135	65	115	45	95	145	75	125	55	105	155	-
LC	1440	1440	1440	1680	1680	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	-
A	1583	1633	1683	1733	1783	1833	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	-
B	360	600	600	600	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	-
C	91.7																	
D	26																	
E	154																	
Weight [kg]	47.8	48.9	50.0	51.1	52.2	55.3	56.4	58.6	60.8	66.0	67.2	69.4	71.6	73.8	76.0	78.2	80.4	-

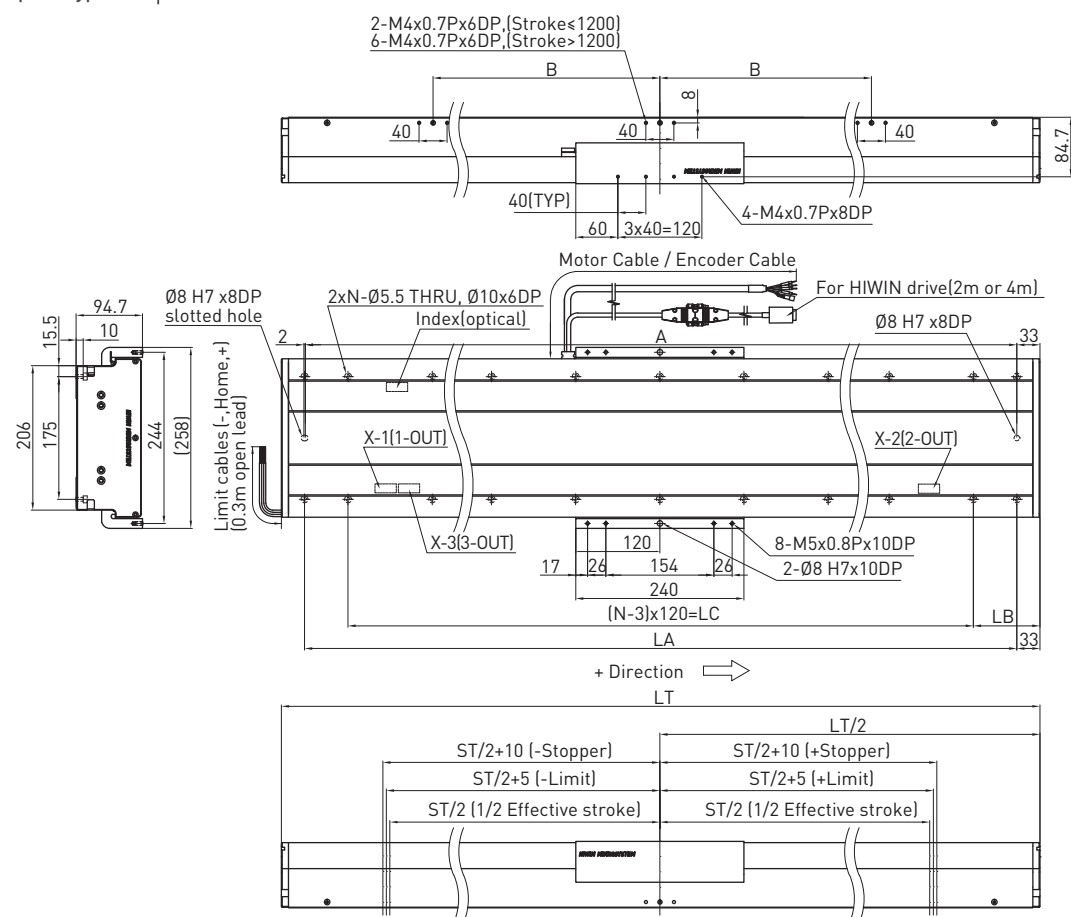
Model Description

LMSSA-20S300-□-□□□□-□□.□□-S-S-A0000

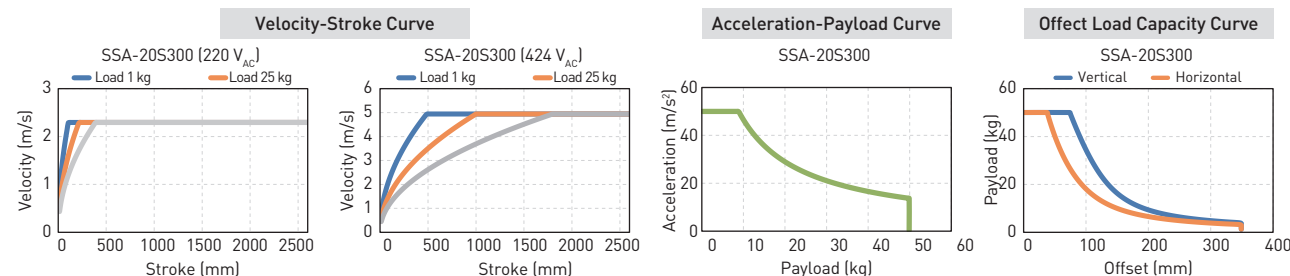
Number of forcers		Cables
1: Single forcer	100–2600: Single forcer	Please refer to page 5, 9, 11
2: Dual forcers	100–2300: Dual forcers	Stroke [mm]

SSA-20 Series Single Forcer

SSA-20S300 High Dustproof Type (M)	Stroke 100~2600
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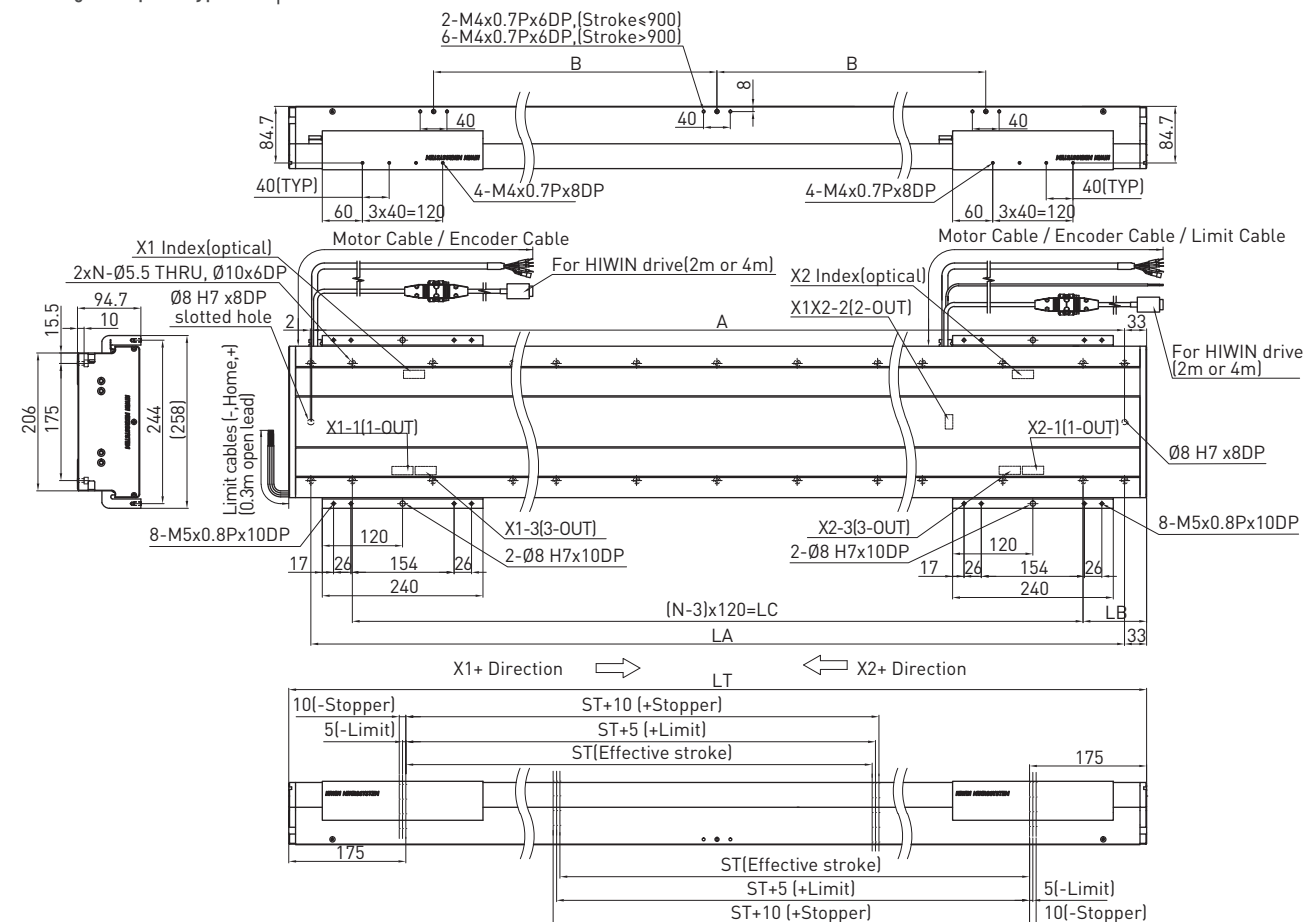
20S300-1-M																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	
N	5	5	5	7	7	7	7	7	9	9	9	11	11	11	11	11	11	13	13	
LA	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	
LB	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50	75	
LC	240	240	240	480	480	480	480	480	720	720	720	960	960	960	960	960	960	1200	1200	
A	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weight [kg]	16.7	17.7	19.2	20.3	21.4	22.6	23.7	24.8	26.0	27.1	28.2	29.4	30.5	31.6	32.8	33.9	35.0	36.2	37.3	
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	
LT	1400	1450	1500	1550	1600	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	
N	13	13	13	15	15	15	15	17	17	17	19	19	21	21	21	23	23	25	25	
LA	1334	1384	1434	1484	1534	1584	1684	1784	1884	1884	2084	2184	2284	2384	2484	2584	2684	2784	2884	
LB	100	125	150	55	80	105	155	85	135	65	115	45	95	145	75	125	55	105	155	
LC	1200	1200	1200	1440	1440	1440	1440	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	
A	1333	1383	1433	1483	1533	1583	1683	1783	1883	1883	2083	2183	2283	2383	2483	2583	2683	2783	2883	
B	-	-	-	-	-	360	360	600	600	600	600	840	840	840	840	840	1080	1080	1080	
Weight [kg]	38.4	39.6	40.7	41.8	43.0	44.1	46.4	48.7	50.9	53.2	55.5	57.7	60.0	62.3	64.5	66.8	69.1	71.3	73.5	



- Note:
1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
 2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
 3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
 4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20S300 High Dustproof Type (M)	Stroke 100~2300
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205300-2-M																		
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Effective Stroke (ST)	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
N	7	7	9	9	9	11	11	11	11	11	11	13	13	13	13	13	15	15
LA	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534
LB	135	160	65	90	115	20	45	70	95	120	145	50	75	100	125	150	55	80
LC	480	480	720	720	720	960	960	960	960	960	960	1200	1200	1200	1200	1400	1440	1440
A	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360
Weight (kg)	30.3	31.5	32.6	33.8	34.9	36.0	37.2	38.3	39.4	40.6	41.7	42.8	44.0	45.1	46.2	47.4	48.5	49.6
Stroke (ST)	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	-
Effective Stroke (ST)	1020	1070	1120	1170	1220	1270	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	-
LT	1650	1700	1750	1800	1850	1900	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	15	15	15	15	17	17	17	19	19	21	21	21	23	23	25	25	25	-
LA	1584	1634	1684	1734	1784	1834	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	-
LB	105	130	155	60	85	110	135	65	115	45	95	145	75	125	55	105	155	-
LC	1440	1440	1440	1680	1680	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	-
A	1583	1633	1683	1733	1783	1833	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	-
B	360	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080	-
Weight (kg)	50.8	51.9	53.0	54.2	55.3	56.4	57.6	59.8	62.1	64.4	66.6	68.9	71.2	73.5	75.7	78.0	80.3	-

Model Description

LMSSA-20S300-□-□□□□-□□.□□-M-S-A0000

Cables

Refer to page
5, 9, 11

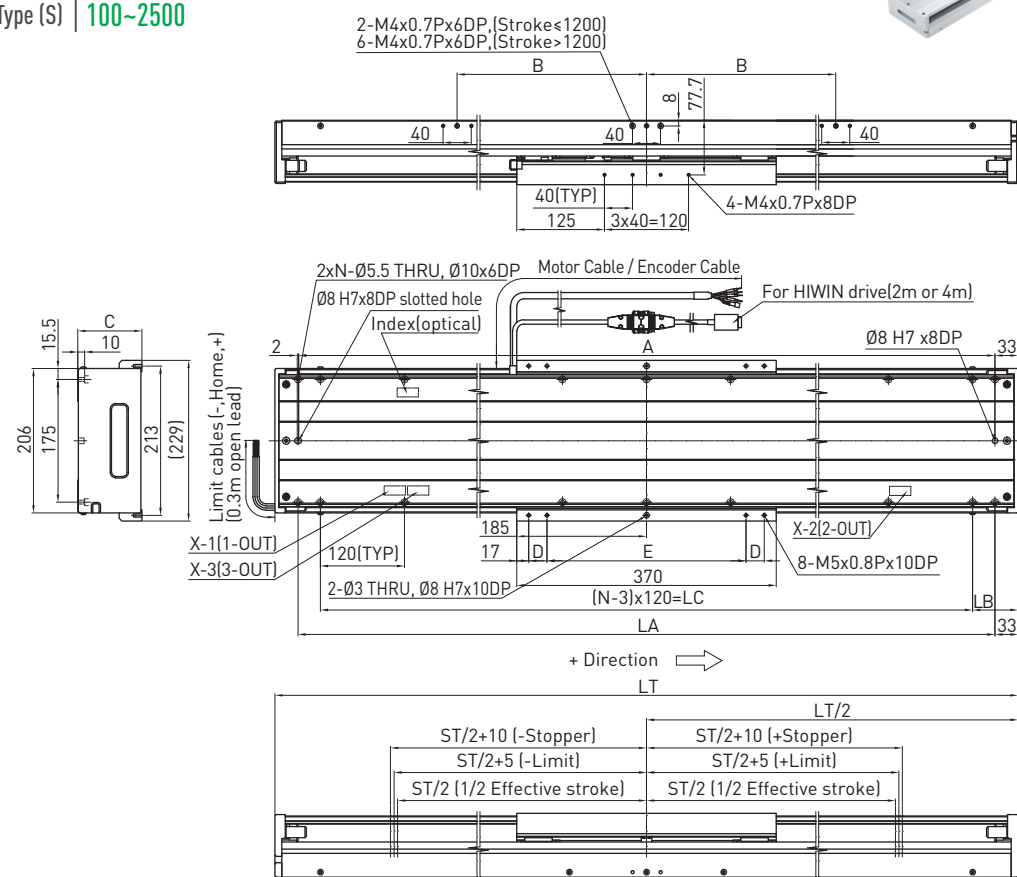
Number of forcers

1: Single forcer
2: Dual forcers

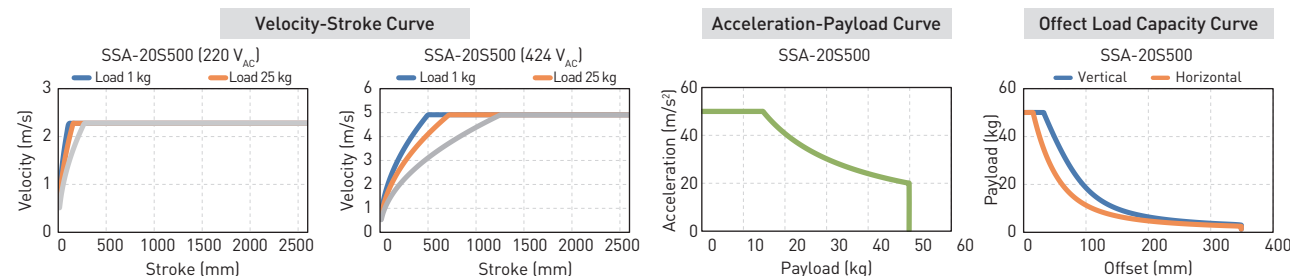
Stroke (mm)
100~2600: Single forcer
100~2300: Dual forcers

SSA-20 Series Single Forcer

SSA-20S500 Standard Type (S)	Stroke 100~2500
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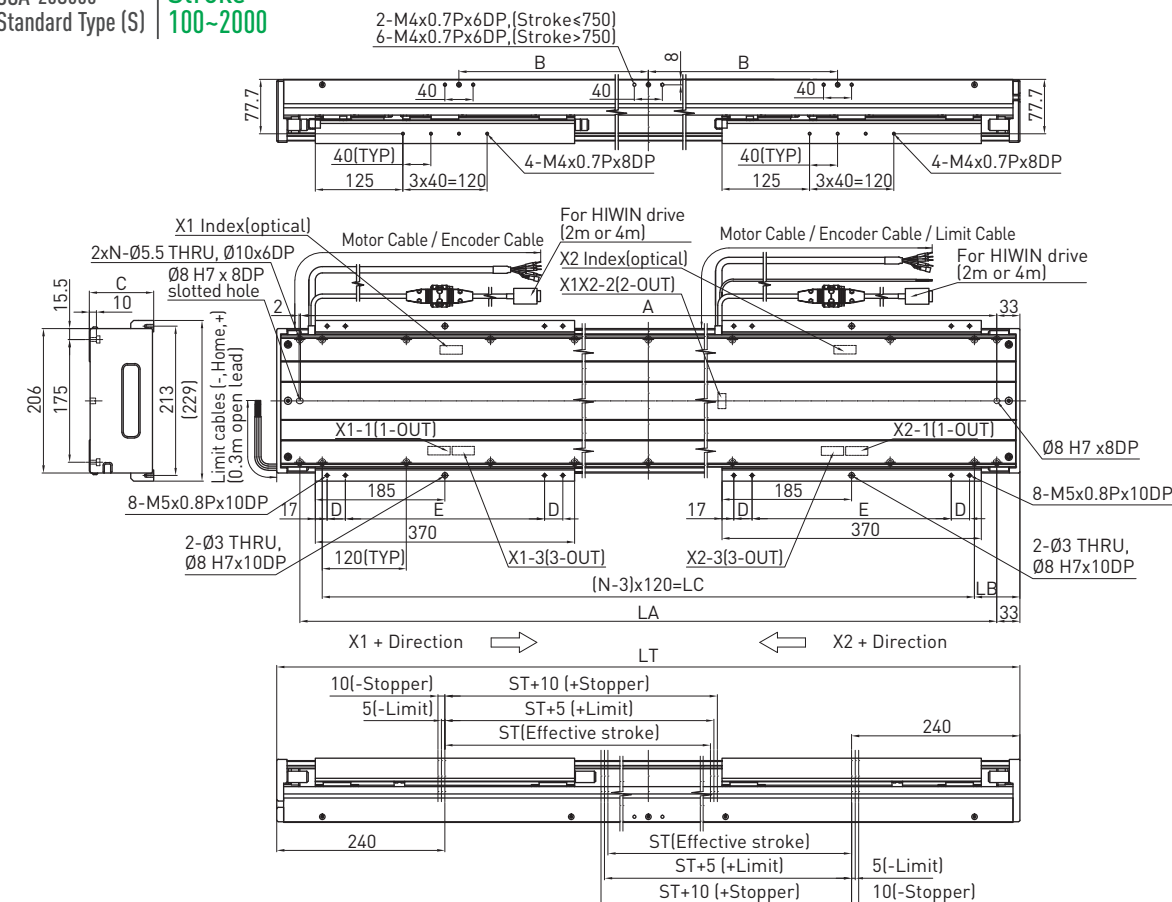
205500-1-S																					
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000		
LT	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480		
N	7	7	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15		
LA	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414		
LB	50	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20		
LC	480	480	480	480	480	720	720	720	720	720	960	960	960	960	960	1200	1200	1200	1440		
A	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413		
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
C	91.7																				
D	26																				
E	284																				
Weight [kg]	20.6	21.6	23.1	24.2	25.4	26.5	27.7	28.8	30.0	31.1	32.3	33.4	34.6	35.7	36.9	38.0	39.2	40.3	41.5		
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-		
LT	1530	1580	1630	1680	1730	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	-		
N	15	15	15	15	15	17	17	17	19	19	21	21	21	23	25	25	25	27	-		
LA	1464	1514	1564	1614	1664	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	-		
LB	45	70	95	120	145	50	100	150	80	130	60	110	160	90	20	70	120	50	-		
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	-		
A	1463	1513	1563	1613	1663	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	-		
B	-	-	-	-	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-		
C	91.7										111.7										-
D	26										50										-
E	284										236										-
Weight [ka]	42.6	43.8	44.9	46.1	47.2	48.4	50.7	53.0	58.3	60.6	62.9	65.2	67.5	69.8	72.1	74.4	76.7	79.0	-		



- Note:
1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
 2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
 3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
 4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20S500	Stroke
Standard Type (S)	100~2000



20S500-2-S																
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Effective Stroke [ST]	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890
LT	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
N	9	11	11	11	11	11	13	13	13	15	15	15	15	15	15	17
LA	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714
LB	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50
LC	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680
A	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	600
C	91.7															
D	26															
E	284															
Weight [kg]	39.2	40.4	41.6	42.7	43.9	45.0	46.2	47.3	48.5	49.6	50.8	51.9	53.1	54.2	55.4	56.5
Stroke [ST]	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000
Effective Stroke [ST]	940	990	1040	1090	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840	1940	2040
LT	1830	1880	1930	1980	2030	2080	2130	2180	2230	2330	2430	2530	2630	2730	2830	2930
N	17	17	17	17	19	19	19	19	19	21	21	23	23	25	25	25
LA	1764	1814	1864	1914	1964	2014	2064	2114	2164	2264	2364	2464	2564	2664	2764	2864
LB	75	100	125	150	55	80	105	130	155	85	135	65	115	45	95	145
LC	1680	1680	1680	1680	1920	1920	1920	1920	1920	2160	2160	2400	2400	2640	2640	2640
A	1763	1813	1863	1913	1963	2013	2063	2113	2163	2263	2363	2463	2563	2663	2763	2863
B	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080
C	91.7				111.7											
D	26				50											
E	284				236											
Weight [ka]	57.7	58.8	60.0	61.1	68.3	69.4	70.6	71.7	72.8	75.1	77.4	79.7	82.0	84.3	86.6	88.9

Model Description

LMSSA-20S500-□-□□□□-□□.□□-S-S-A0000

Cables

Please refer to page
5, 9, 11

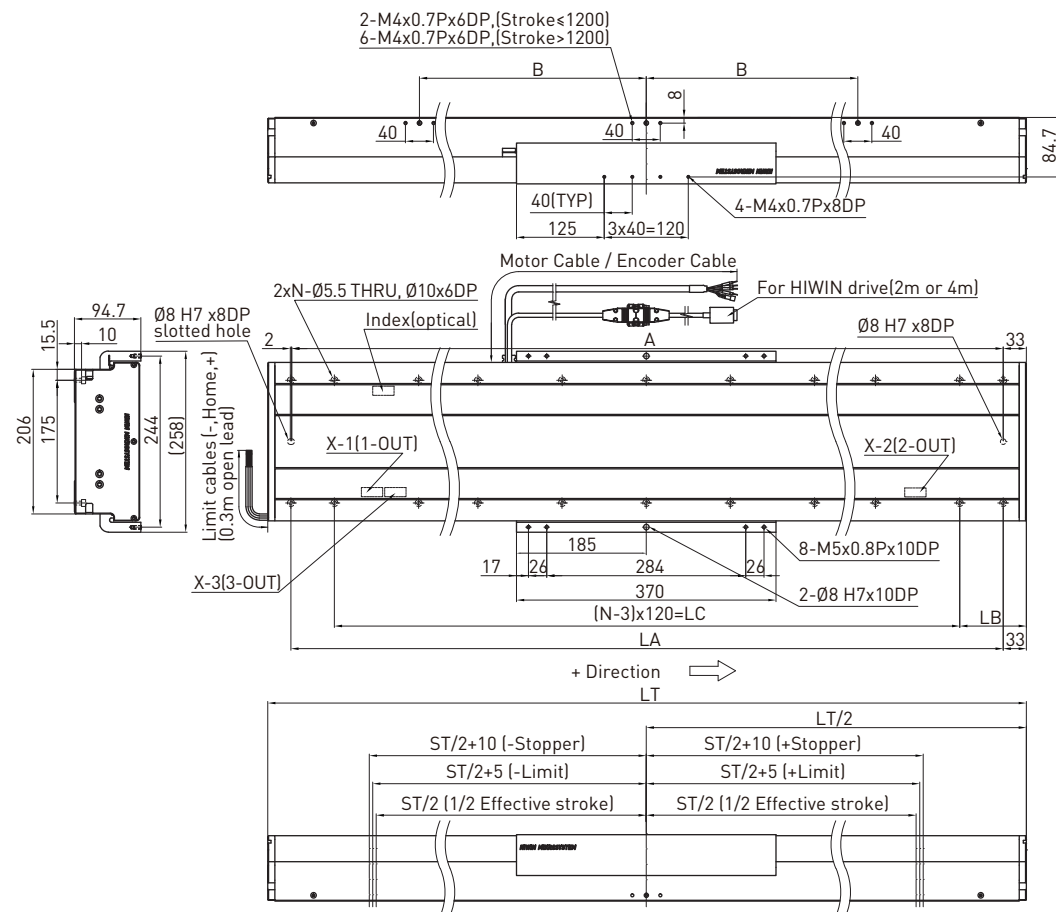
Number of forcers

1: Single forcer
2: Dual forcers

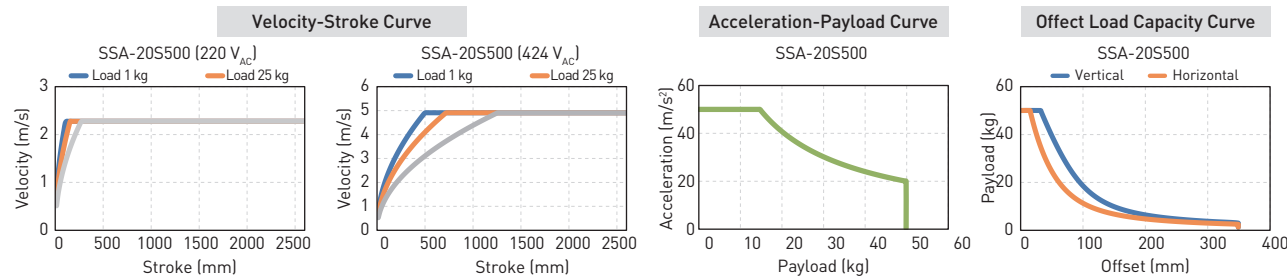
Stroke (mm)

Stroke (mm)
100–2500: Single forcer
100–2000: Dual forcers

SSA-20 Series Single Forcer

SSA-20S500
High Dustproof Type (M)Stroke
100~2500

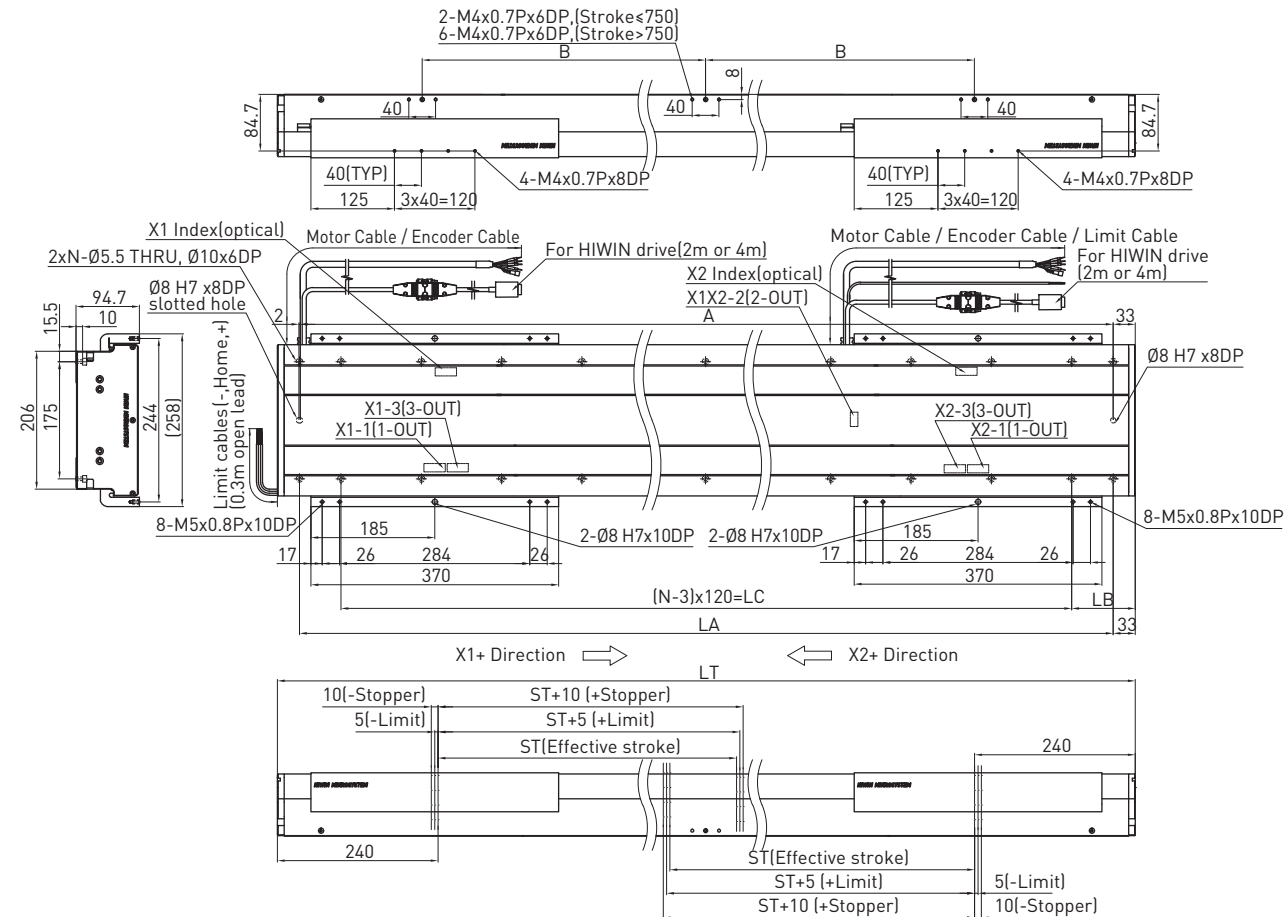
20S500-1-M																			
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480
N	7	7	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15
LA	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414
LB	50	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20
LC	480	480	480	480	480	720	720	720	720	720	960	960	960	960	960	1200	1200	1200	1440
A	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight [kg]	22.3	23.4	24.9	26.1	27.3	28.5	29.7	30.9	32.0	33.2	34.4	35.6	36.8	38.0	39.1	40.3	41.5	42.7	43.9
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-
LT	1530	1580	1630	1680	1730	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	-
N	15	15	15	15	15	17	17	17	19	19	21	21	21	21	23	25	25	27	-
LA	1464	1514	1564	1614	1664	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	-
LB	45	70	95	120	145	50	100	150	80	130	60	110	160	90	20	70	120	50	-
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	-
A	1463	1513	1563	1613	1663	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	-
B	-	-	-	-	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-
Weight [kg]	45.0	46.2	47.4	48.6	49.8	51.0	53.3	55.7	58.1	60.4	62.8	65.1	67.5	69.9	72.2	74.6	77.0	79.3	-



Note:

- When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
- The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
- To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
- For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20S500
High Dustproof Type (M)Stroke
100~2000

20S500-2-M																
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Effective Stroke [ST]	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890
LT	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
N	9	11	11	11	11	11	13	13	13	15	15	15	15	15	15	17
LA	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714
LB	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50
LC	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680
A	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	600
Weight [kg]	42.9	44.1	45.3	46.5	47.7	48.9	50.0	51.2	52.4	53.6	54.8	56.0	57.1	58.3	59.5	60.7
Stroke [ST]	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000
Effective Stroke [ST]	940	990	1040	1090	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840	1940	2040
LT	1830	1880	1930	1980	2030	2080	2130	2180	2230	2330	2430	2530	2630	2730	2830	2930
N	17	17	17	17	19	19	19	19	19	21	21	23	23	25	25	25
LA	1764	1814	1864	1914	1964	2014	2064	2114	2164	2264	2364	2464	2564	2664	2764	2864
LB	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450
LC	1680	1680	1680	1680	1920	1920	1920	1920	1920	2160	2160	2400	2400	2640	2640	2640
A	1763	1813	1863	1913	1963	2013	2063	2113	2163	2263	2363	2463	2563	2663	2763	2863
B	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080
Weight [kg]	61.9	63.0	64.2	65.4	66.6	67.8	69.0	70.1	71.3	73.7	76.1	78.4	80.8	83.1	85.5	87.9

Model Description

LMSSA-20S500-□-□□□□-□□.□□-M-S-A0000

Cables

Please refer to page 5, 9, 11

Number of forcers

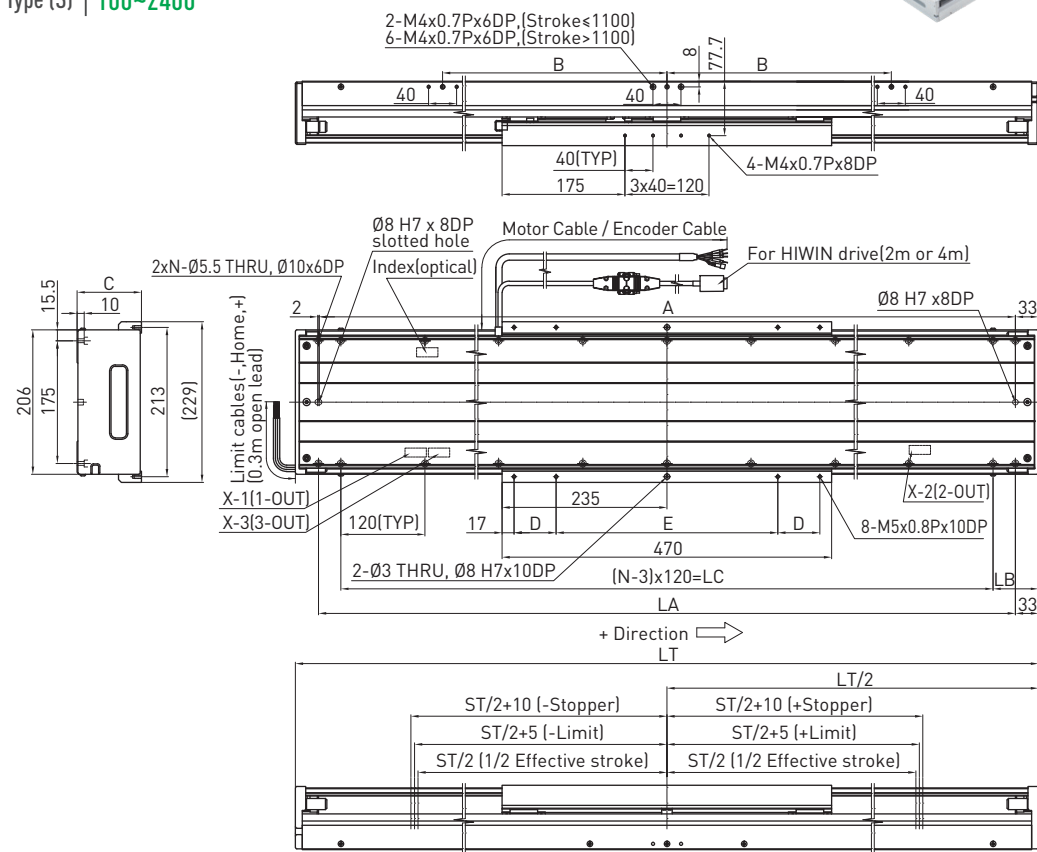
- Single forcer
- Dual forcers

Stroke (mm)

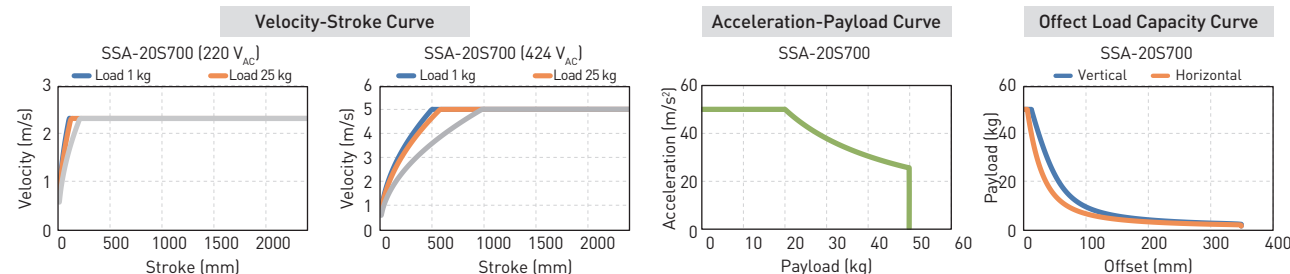
- 100~2500: Single forcer
- 100~2000: Dual forcers

SSA-20 Series Single Forcer

SSA-20S700	Stroke
Standard Type (S)	100~2400



205700-1-5																			
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	
LT	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	
N	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15	15	
LA	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	
LB	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	45	
LC	480	480	480	720	720	720	720	720	960	960	960	960	960	1200	1200	1400	1440	1440	
A	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C	91.7																		
D	60																		
E	316																		
Weight (kg)	25.1	26.3	27.4	28.5	29.7	30.8	32.0	33.1	34.3	35.4	36.6	37.7	38.9	40.0	41.2	42.3	43.5	44.6	
Stroke (ST)	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	
LT	1580	1630	1680	1730	1780	1830	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	
N	15	15	15	15	17	17	17	17	19	19	21	21	21	23	25	25	25	27	
LA	1514	1564	1614	1664	1714	1764	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	
LB	70	95	120	145	50	75	100	150	80	130	60	110	160	90	20	70	120	50	
LC	1440	1440	1440	1440	1680	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	
A	1513	1563	1613	1663	1713	1763	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	
B	-	-	-	600	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	
C	91.7										111.7								
D	60										120								
E	316										196								
Weight (kg)	45.8	46.9	48.1	49.2	50.4	51.5	52.7	55.0	60.3	62.6	64.9	67.2	69.5	71.8	74.1	76.4	78.7	81.0	

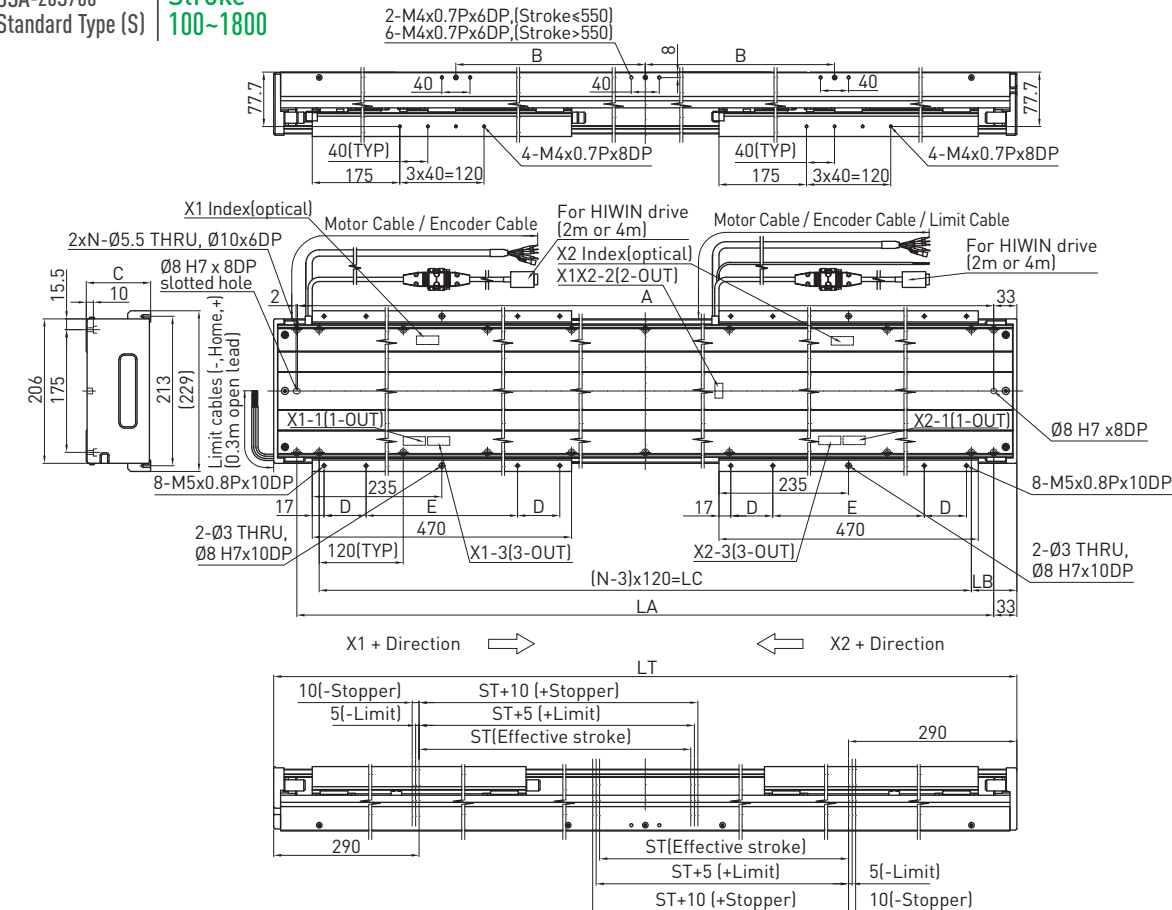


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20S700	Stroke
Standard Type (S)	100~1800



20S700-2-S																	
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800		
Effective Stroke [ST]	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840		
LT	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930		
N	11	13	13	13	13	15	15	15	15	15	15	17	17	17	17		
LA	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714	1764	1814	1864		
LB	160	40	65	90	115	20	45	70	95	120	145	50	75	100	125		
LC	960	1200	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680	1680	1680	1680		
A	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713	1763	1813	1863		
B	-	-	-	-	-	-	-	-	-	-	600	600	600	600	600		
C									91.7								
D									60								
E									316								
Weight (kg)	48.2	49.4	50.5	51.7	52.8	54.0	55.1	56.3	57.4	58.6	59.7	60.9	62.0	63.2	64.3		
Stroke [ST]	850	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800		
Effective Stroke [ST]	890	940	990	1040	1090	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840		
LT	1980	2030	2080	2130	2180	2230	2280	2330	2380	2430	2530	2630	2730	2830	2930		
N	17	19	19	19	19	19	21	21	21	21	23	23	25	25	25		
LA	1914	1964	2014	2064	2114	2164	2214	2264	2314	2364	2464	2564	2664	2764	2864		
LB	150	55	80	105	130	155	60	85	110	135	65	115	45	95	145		
LC	1680	1920	1920	1920	1920	1920	2160	2160	2160	2160	2400	2400	2640	2640	2640		
A	1913	1963	2013	2063	2113	2163	2213	2263	2313	2363	2463	2563	2663	2763	2863		
B	600	600	600	600	840	840	840	840	840	840	840	840	1080	1080	1080		
C	91.7									111.7							
D	60									120							
E	316									196							
Weight (kg)	65.5	69.6	71.8	72.9	74.1	75.2	76.4	77.5	78.6	79.8	82.1	84.4	86.7	89.0	91.3		

Model Description

LMSSA-20S700-□-□□□□-□□.□□-S-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

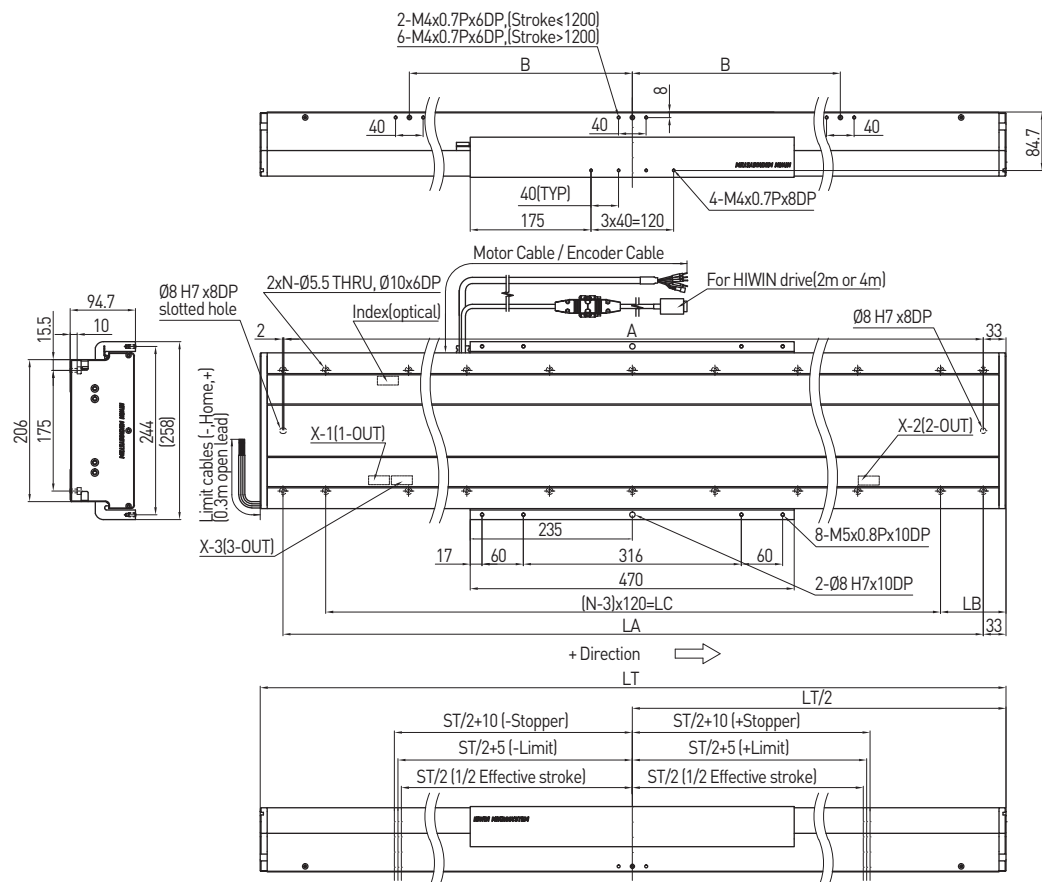
- 1: Single forcer
- 2: Dual forcers

Stroke (mm)

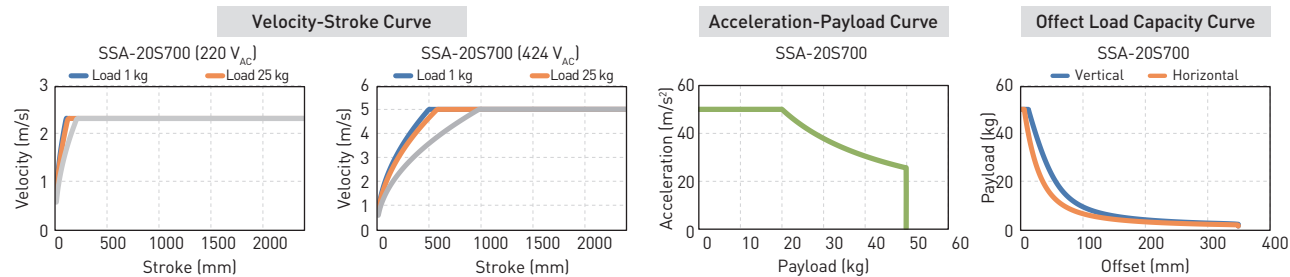
100~2400: Single forcer
100~1800: Dual forcers

SSA-20 Series Single Forcer

SSA-20S700 High Dustproof Type (M)	Stroke 100~2400
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20S700-1-M																		
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
LT	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530
N	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15	15
LA	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464
LB	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	45
LC	480	480	480	720	720	720	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440
A	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight (kg)	27.4	28.6	29.7	30.9	32.1	33.3	34.5	35.7	36.8	38.0	39.2	40.4	41.6	42.7	43.9	45.1	46.3	47.5
Stroke [ST]	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
LT	1580	1630	1680	1730	1780	1830	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980
N	15	15	15	15	17	17	17	17	19	19	21	21	21	23	25	25	25	27
LA	1514	1564	1614	1664	1714	1764	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914
LB	70	95	120	145	50	75	100	150	80	130	60	110	160	90	20	70	120	50
LC	1440	1440	1440	1440	1680	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880
A	1513	1563	1613	1663	1713	1763	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913
B	-	-	-	-	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080
Weight (kg)	48.7	49.8	51.0	52.2	53.4	54.6	55.8	58.1	60.5	62.8	65.2	67.6	69.9	72.3	74.7	77.0	79.4	81.8

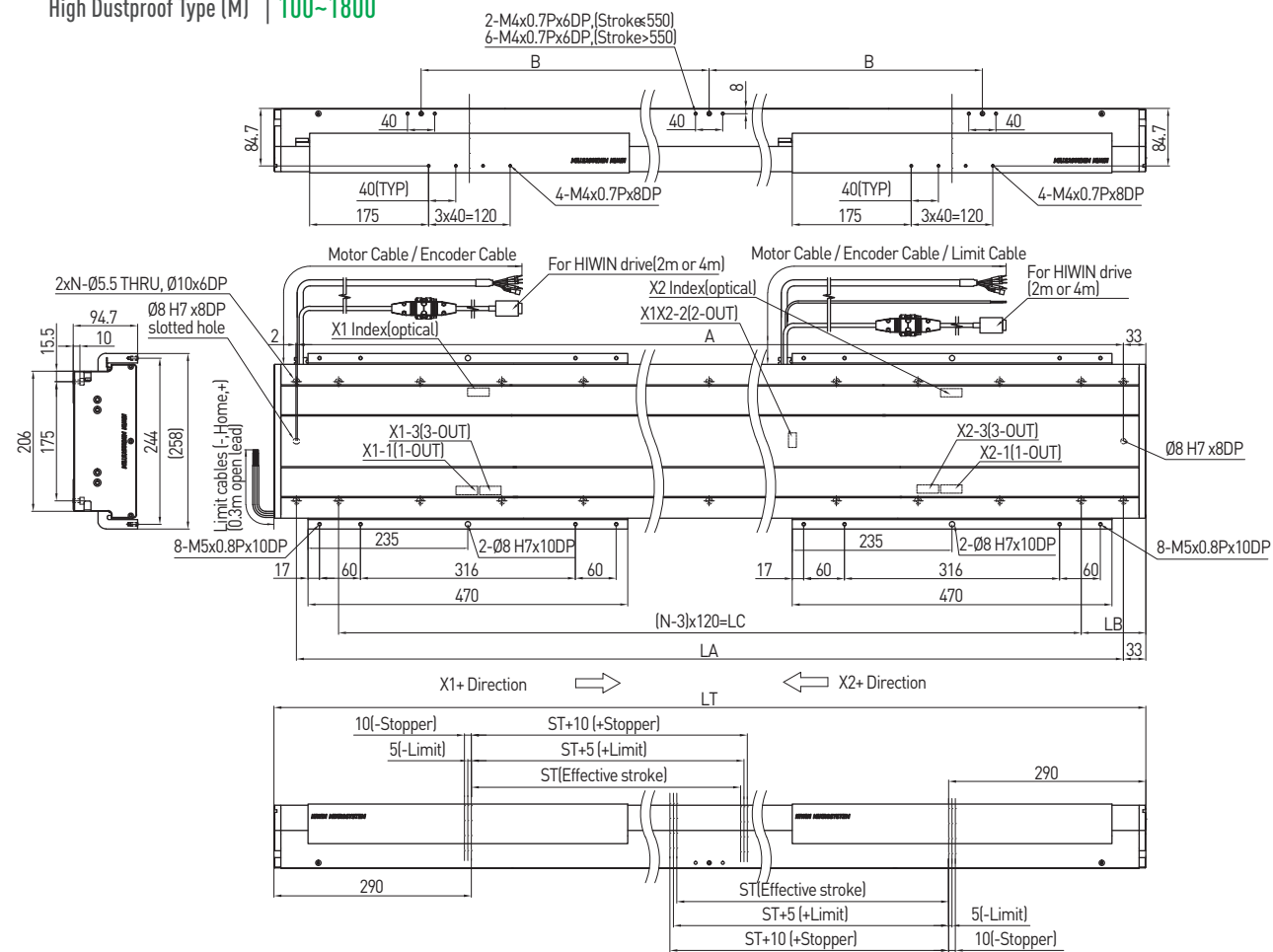


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20S700 High Dustproof Type (M)	Stroke 100~1800
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20S700-2-M															
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Effective Stroke [ST]	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840
LT	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930
N	11	13	13	13	13	15	15	15	15	15	15	17	17	17	17
LA	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714	1764	1814	1864
LB	160	40	65	90	115	20	45	70	95	120	145	50	75	100	125
LC	960	1200	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680	1680	1680	1680
A	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713	1763	1813	1863
B	-	-	-	-	-	-	-	-	-	-	600	600	600	600	600
Weight (kg)	52.9	54.1	55.3	56.5	57.6	58.8	60.0	61.2	62.4	63.5	64.7	65.9	67.1	68.3	69.5
Stroke [ST]	850	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800
Effective Stroke [ST]	890	940	990	1040	1090	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840
LT	1980	2030	2080	2130	2180	2230	2280	2330	2380	2430	2530	2630	2730	2830	2930
N	17	19	19	19	19	19	21	21	21	21	23	23	25	25	25
LA	1914	1964	2014	2064	2114	2164	2214	2264	2314	2364	2464	2564	2664	2764	2864
LB	150	55	80	105	130	155	60	85	110	135	65	115	45	95	145
LC	1680	1920	1920	1920	1920	1920	2160	2160	2160	2160	2400	2400	2640	2640	2640
A	1913	1963	2013	2063	2113	2163	2213	2263	2313	2363	2463	2563	2663	2763	2863
B	600	600	600	600	840	840	840	840	840	840	840	840	1080	1080	1080
Weight (kg)	70.6	71.8	73.0	74.2	75.4	76.6	77.7	78.9	80.1	81.3	83.6	86.0	88.4	90.7	93.1

Model Description

LMSSA-20S700-□-□□□□-□□.□□-M-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

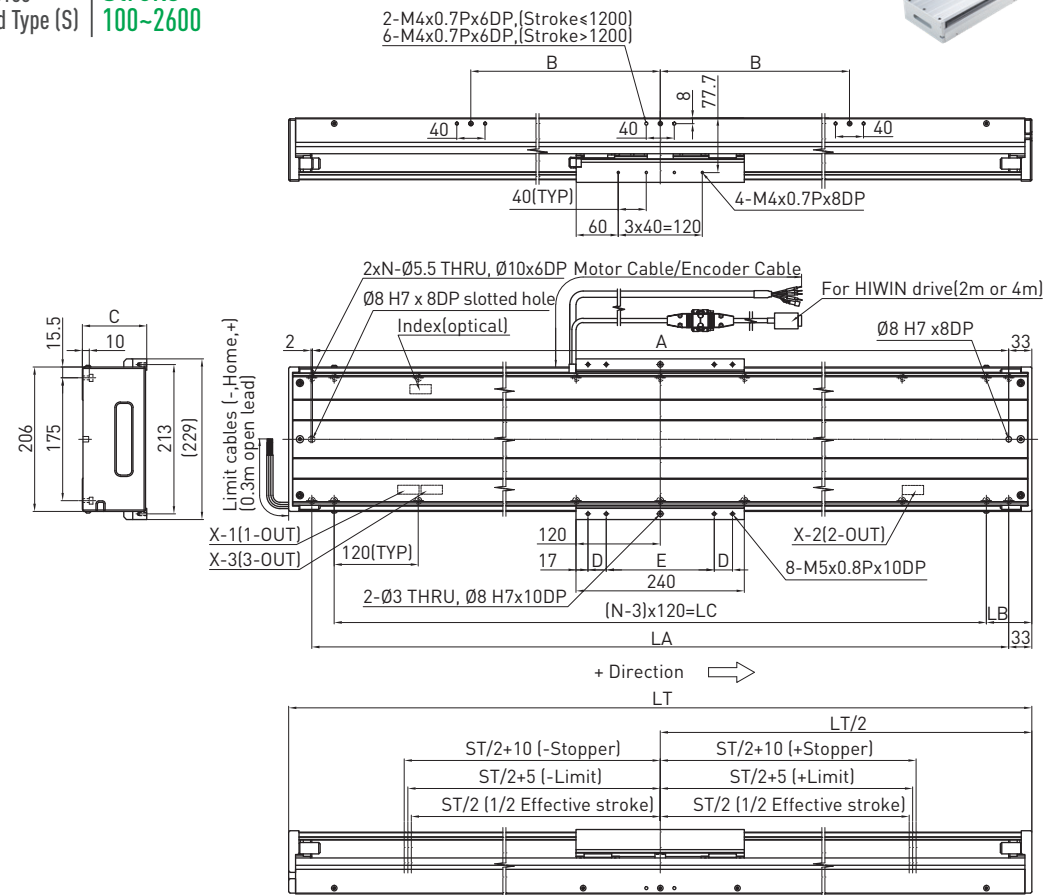
1: Single forcer
2: Dual forcers

Stroke (mm)

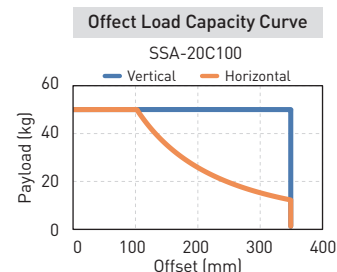
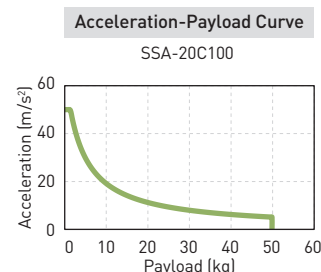
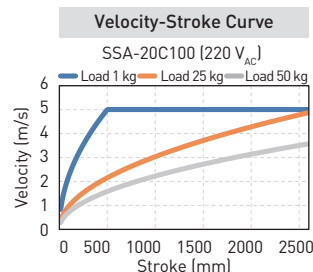
100~2400: Single forcer
100~1800: Dual forcers

SSA-20 Series Single Forcer

SSA-20C100	Stroke
Standard Type (S)	100~2600



20C100-1-S																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	
N	5	5	5	7	7	7	7	7	9	9	9	11	11	11	11	11	11	13	13	
LA	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	
LB	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50	75	
LC	240	240	240	480	480	480	480	480	720	720	720	960	960	960	960	960	960	1200	1200	
A	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C	91.7																			
D	26																			
E	154																			
Weight (kg)	16.1	17.5	19.4	20.9	22.4	23.9	25.4	26.9	28.4	29.9	31.4	32.9	34.4	36.0	37.5	39.0	40.5	42.0	43.5	
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	
LT	1400	1450	1500	1550	1600	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	
N	13	13	13	15	15	15	15	17	17	19	19	21	21	21	23	23	25	25	25	
LA	1334	1384	1434	1484	1534	1584	1684	1784	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	
LB	100	125	150	55	80	105	155	85	135	65	115	45	95	145	75	125	55	105	155	
LC	1200	1200	1200	1440	1440	1440	1440	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	
A	1333	1383	1433	1483	1533	1583	1683	1783	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	
B	-	-	-	-	360	360	600	600	600	600	600	840	840	840	840	1080	1080	1080	1080	
C	91.7																			
D	26																			
E	154																			
Weight (kg)	45.0	46.5	48.0	49.5	51.0	52.6	55.6	58.6	63.6	66.6	69.6	72.7	75.7	78.7	81.7	84.7	87.8	90.8	93.8	

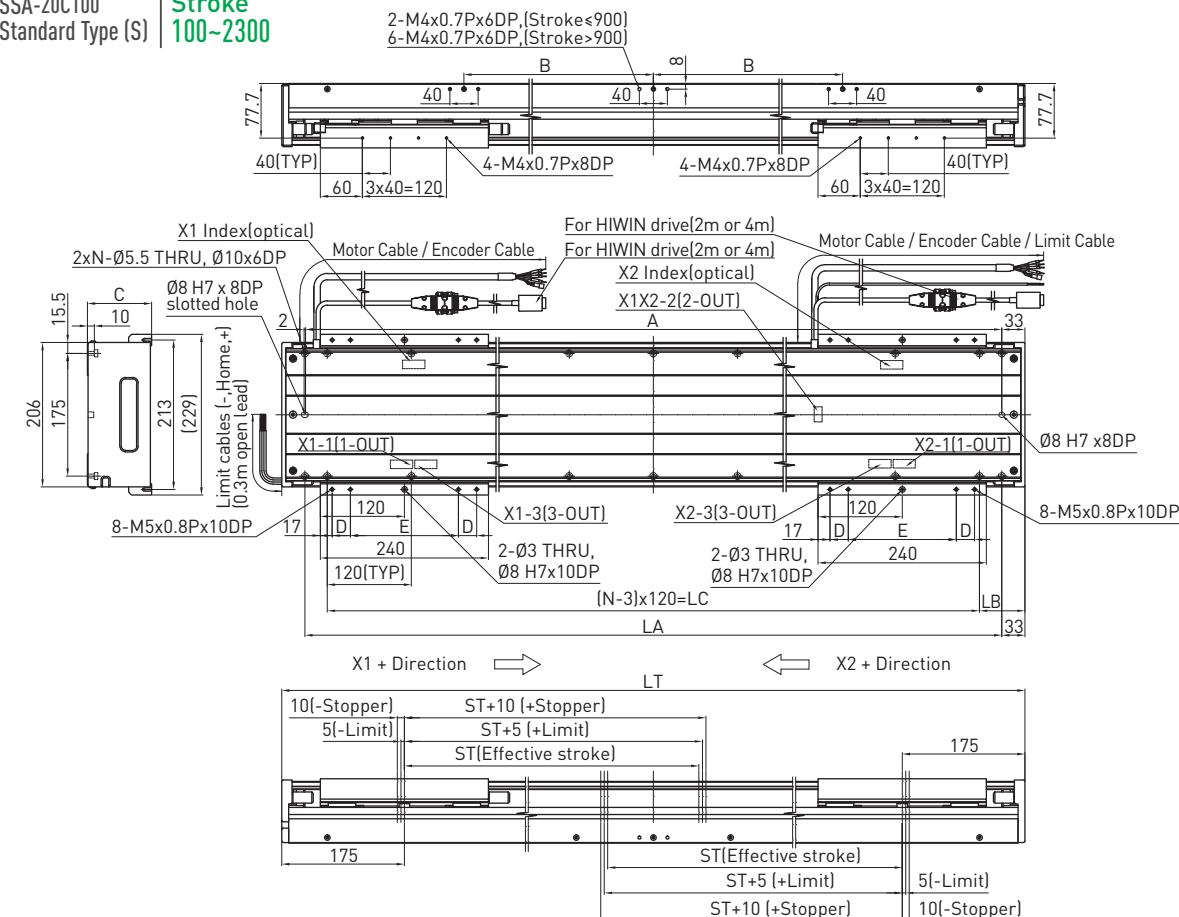


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20C100	Stroke
Standard Type (S)	100~2300



20C100-2-S																		
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Effective Stroke (ST)	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
N	7	7	9	9	9	11	11	11	11	11	11	13	13	13	13	13	15	15
LA	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534
LB	135	160	65	90	115	20	45	70	95	120	145	50	75	100	125	150	55	80
LC	480	480	720	720	720	960	960	960	960	960	960	1200	1200	1200	1200	1200	1440	1440
A	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360
C	91.7																	
D	26																	
E	154																	
Weight (kg)	29.3	30.8	32.3	33.8	35.3	36.8	38.3	39.9	41.4	42.9	44.4	45.9	47.4	48.9	50.4	51.9	53.4	54.9
Stroke (ST)	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	-
Effective Stroke (ST)	1020	1070	1120	1170	1220	1270	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	-
LT	1650	1700	1750	1800	1850	1900	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	15	15	15	15	17	17	17	19	19	21	21	21	23	23	25	25	25	-
LA	1584	1634	1684	1734	1784	1834	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	-
LB	105	130	155	60	85	110	135	65	115	45	95	145	75	125	55	105	155	-
LC	1440	1440	1440	1680	1680	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	-
A	1583	1633	1683	1733	1783	1833	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	-
B	360	600	600	600	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	-
C	91.7																	
D	26																	
E	154																	
Weight (ka)	56.5	58.0	59.5	61.0	62.5	68.0	69.5	72.5	75.5	78.6	81.6	84.6	87.6	90.6	93.7	96.7	99.7	-

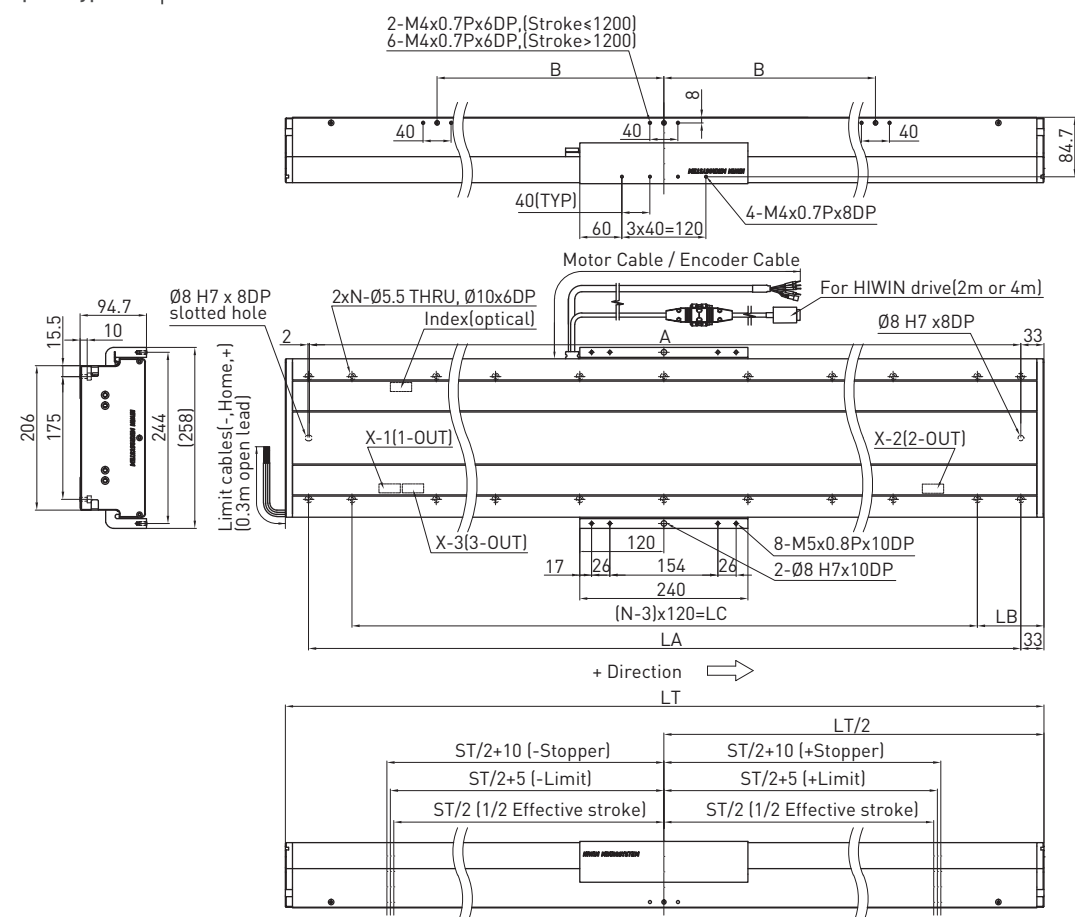
Model Description

LMSSA-20C100-□-□□□□-□□.□□-S-S-A0000

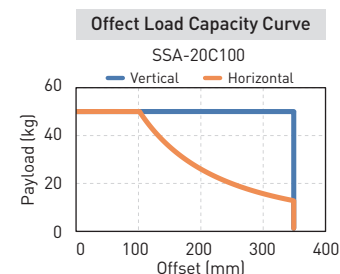
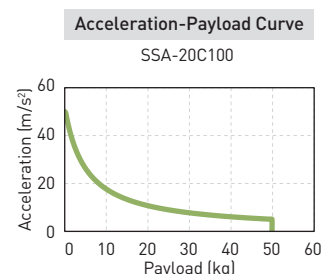
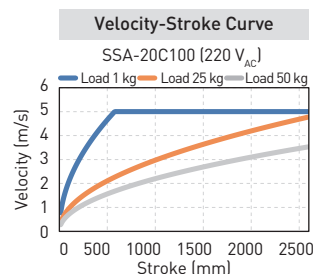
<p>Number of forcers</p> <p>1: Single forcer 2: Dual forcers</p>		<p>Cables</p> <p>Please refer to page 5, 9, 11</p> <p>Stroke (mm)</p> <p>100-2600: Single forcer 100-2300: Dual forcers</p>
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SSA-20 Series Single Forcer

SSA-20C100 High Dustproof Type (M)	Stroke 100~2600
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20C100-1-M																			
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
LT	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
N	5	5	5	7	7	7	7	7	9	9	9	11	11	11	11	11	11	13	13
LA	384	434	484	534	584	634	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284
LB	105	130	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50	75
LC	240	240	240	480	480	480	480	480	720	720	720	960	960	960	960	960	960	1200	1200
A	383	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight [kg]	17.3	18.7	20.6	22.1	23.6	25.2	26.7	28.3	29.8	31.4	32.9	34.4	36.0	37.5	39.1	40.6	42.2	43.7	45.2
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
LT	1400	1450	1500	1550	1600	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950
N	13	13	13	15	15	15	15	17	17	19	19	21	21	21	23	23	25	25	25
LA	1334	1384	1434	1484	1534	1584	1684	1784	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884
LB	100	125	150	55	80	105	155	85	135	65	115	45	95	145	75	125	55	105	155
LC	1200	1200	1200	1440	1440	1440	1440	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640
A	1333	1383	1433	1483	1533	1583	1683	1783	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883
B	-	-	-	-	-	360	360	600	600	600	600	840	840	840	840	1080	1080	1080	1080
Weight [kg]	46.8	48.3	49.9	51.4	53.0	54.5	57.6	60.7	63.7	66.8	69.9	73.0	76.1	79.2	82.3	85.3	88.4	91.5	94.6

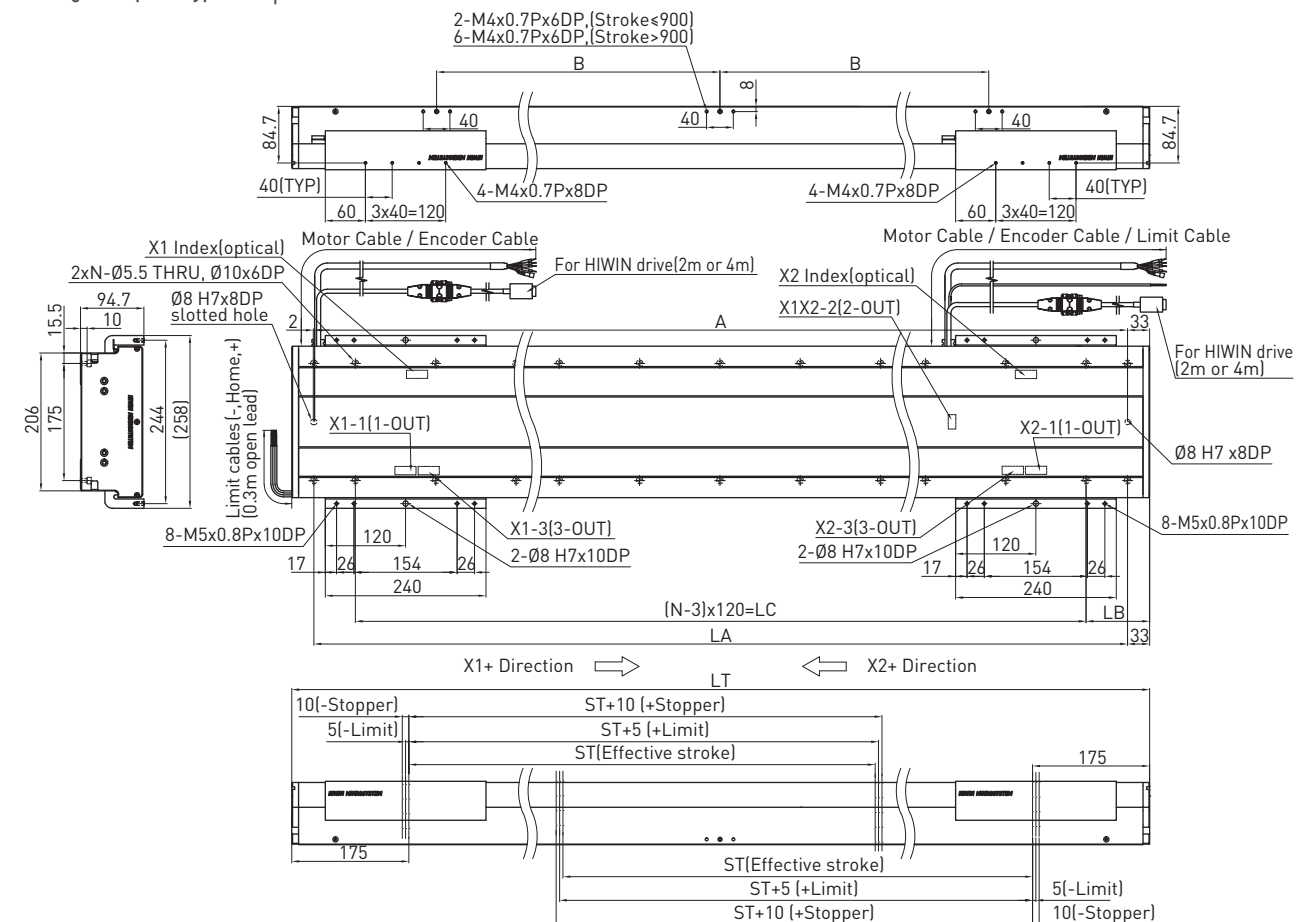


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of V=1 m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20C100 High Dustproof Type (M)	Stroke 100~2300
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20C100-2-M																		
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
Effective Stroke [ST]	120	170	220	270	320	370	420	470	520	570	620	670	720	770	820	870	920	970
LT	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
N	7	7	9	9	9	11	11	11	11	11	11	13	13	13	13	15	15	15
LA	684	734	784	834	884	934	984	1034	1084	1134	1184	1234	1284	1334	1384	1434	1484	1534
LB	135	160	65	90	115	20	45	70	95	120	145	50	75	100	125	150	55	80
LC	480	480	720	720	720	960	960	960	960	960	960	1200	1200	1200	1200	1200	1440	1440
A	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	1383	1433	1483	1533
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360
Weight (kg)	30.9	32.4	33.9	35.5	37.0	38.6	40.1	41.6	43.2	44.7	46.3	47.8	49.4	50.9	52.4	54.0	55.5	57.1
Stroke [ST]	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	-
Effective Stroke [ST]	1020	1070	1120	1170	1220	1270	1320	1420	1520	1620	1720	1820	1920	2020	2120	2220	2320	-
LT	1650	1700	1750	1800	1850	1900	1950	2050	2150	2250	2350	2450	2550	2650	2750	2850	2950	-
N	15	15	15	15	17	17	17	19	19	21	21	21	23	23	25	25	25	-
LA	1584	1634	1684	1734	1784	1834	1884	1984	2084	2184	2284	2384	2484	2584	2684	2784	2884	-
LB	105	130	155	60	85	110	135	65	115	45	95	145	75	125	55	105	155	-
LC	1440	1440	1440	1680	1680	1680	1680	1920	1920	2160	2160	2160	2400	2400	2640	2640	2640	-
A	1583	1633	1683	1733	1783	1833	1883	1983	2083	2183	2283	2383	2483	2583	2683	2783	2883	-
B	360	600	600	600	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	-
Weight (kg)	58.6	60.2	61.7	63.2	64.8	66.3	67.9	71.0	74.0	77.1	80.2	83.3	86.4	89.5	92.5	95.6	98.7	-

Model Description

LMSSA-20C100-□-□□□□-□□.□□-M-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

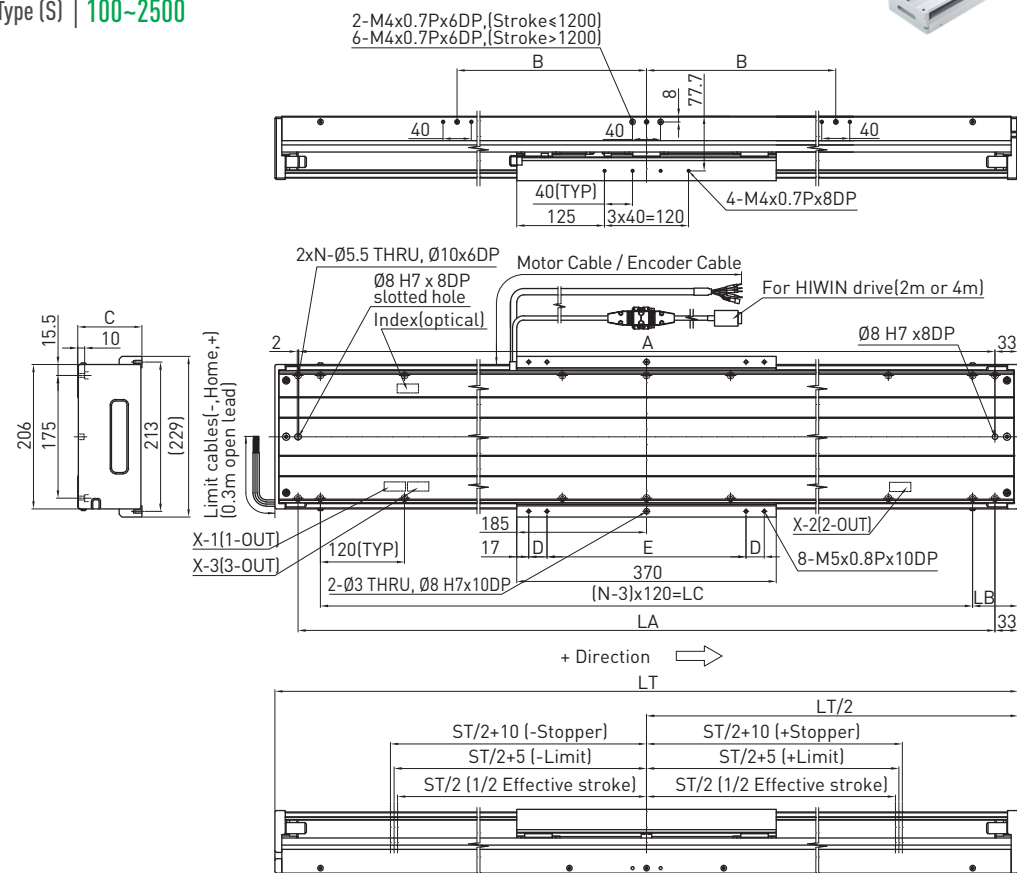
- 1: Single forcer
2: Dual forcers

Stroke (mm)

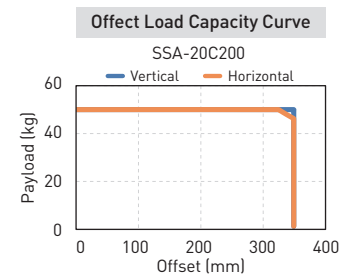
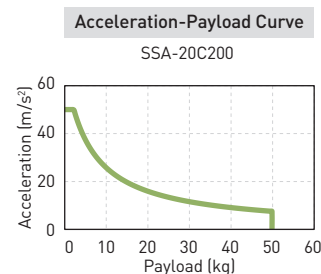
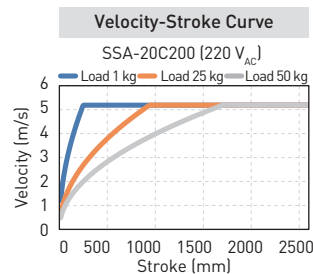
100~2600: Single forcer
100~2300: Dual forcers

SSA-20 Series Single Forcer

SSA-20C200	Stroke
Standard Type (S)	100~2500



20C200-1-S																					
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000		
LT	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480		
N	7	7	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15		
LA	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414		
LB	50	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20		
LC	480	480	480	480	480	720	720	720	720	720	960	960	960	960	960	1200	1200	1200	1440		
A	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413		
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
C	91.7																				
D	26																				
E	284																				
Weight (kg)	20.4	21.9	23.8	25.4	26.9	28.5	30.0	31.6	33.2	34.7	36.3	37.9	39.4	41.0	42.5	44.1	45.7	47.2	48.8		
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-		
LT	1530	1580	1630	1680	1730	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	-		
N	15	15	15	15	15	17	17	17	19	19	21	21	21	23	25	25	25	27	-		
LA	1464	1514	1564	1614	1664	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	-		
LB	45	70	95	120	145	50	100	150	80	130	60	110	160	90	20	70	120	50	-		
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	-		
A	1463	1513	1563	1613	1663	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	-		
B	-	-	-	-	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-		
C	91.7										111.7										-
D	26										50										-
E	284										236										-
Weight (kg)	50.4	51.9	53.5	55.1	56.6	58.2	61.3	64.4	70.6	73.7	76.8	79.9	83.1	86.2	89.3	92.4	95.6	98.7	-		

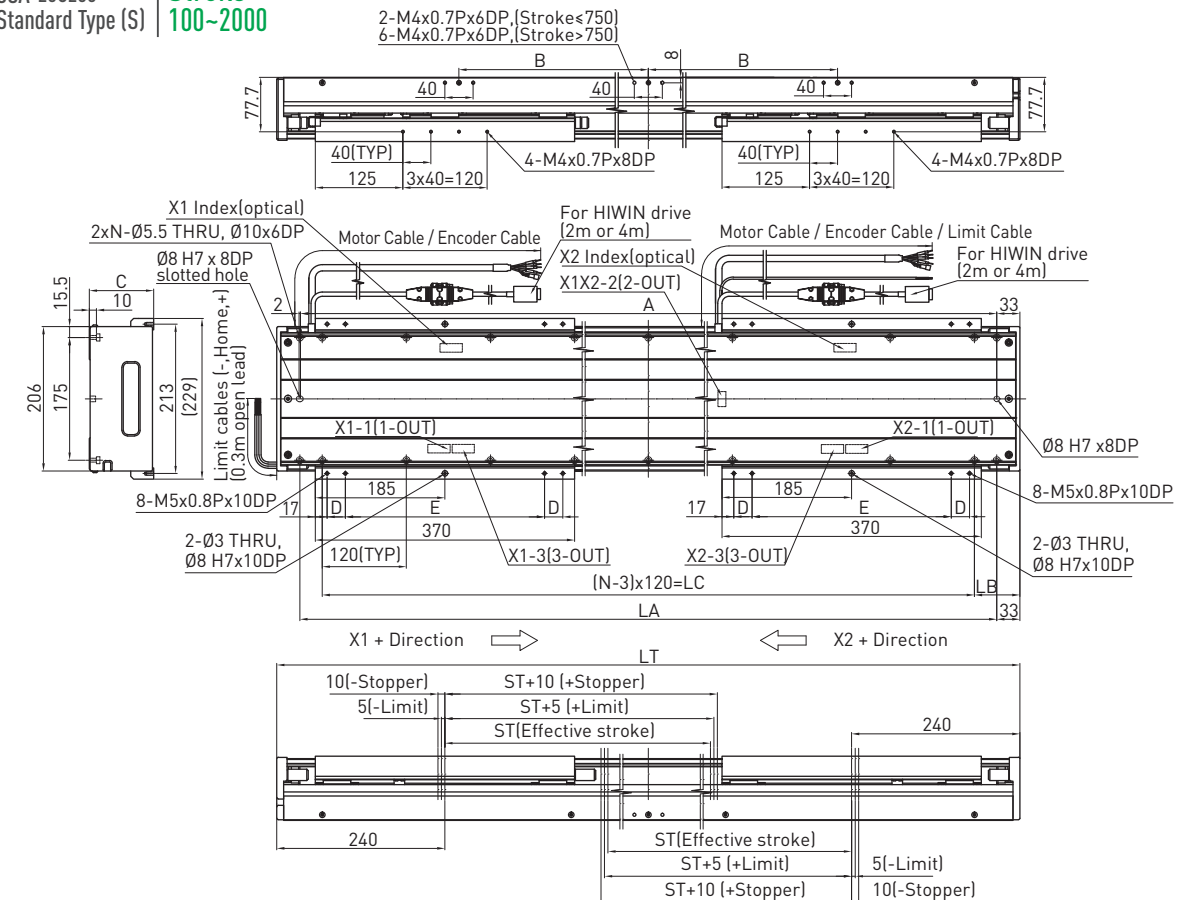


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20C200 Standard Type (S)	Stroke 100~2000
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20C200-2-S																
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Effective Stroke (ST)	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890
LT	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
N	9	11	11	11	11	11	13	13	13	15	15	15	15	15	15	17
LA	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714
LB	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50
LC	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680
A	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	600
C	91.7															
D	26															
E	284															
Weight (kg)	40.3	41.9	43.4	45.0	46.5	48.1	49.7	51.2	52.8	54.4	55.9	57.5	59.0	60.6	62.2	63.7
Stroke (ST)	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000
Effective Stroke (ST)	940	990	1040	1090	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840	1940	2040
LT	1830	1880	1930	1980	2030	2080	2130	2180	2230	2330	2430	2530	2630	2730	2830	2930
N	17	17	17	17	19	19	19	19	19	21	21	23	23	25	25	25
LA	1764	1814	1864	1914	1964	2014	2064	2114	2164	2264	2364	2464	2564	2664	2764	2864
LB	75	100	125	150	55	80	105	130	155	85	135	65	115	45	95	145
LC	1680	1680	1680	1680	1920	1920	1920	1920	1920	2160	2160	2400	2400	2640	2640	2640
A	1763	1813	1863	1913	1963	2013	2063	2113	2163	2263	2363	2463	2563	2663	2763	2863
B	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080
C	91.7				111.7											
D	26				50											
E	284				236											
Weight (kg)	65.3	66.9	68.4	70.0	77.5	79.1	80.7	82.2	83.8	86.9	90.1	93.2	96.3	99.4	102.6	105.7

Model Description

LMSSA-20C200-□-□□□□-□□.□□-S-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

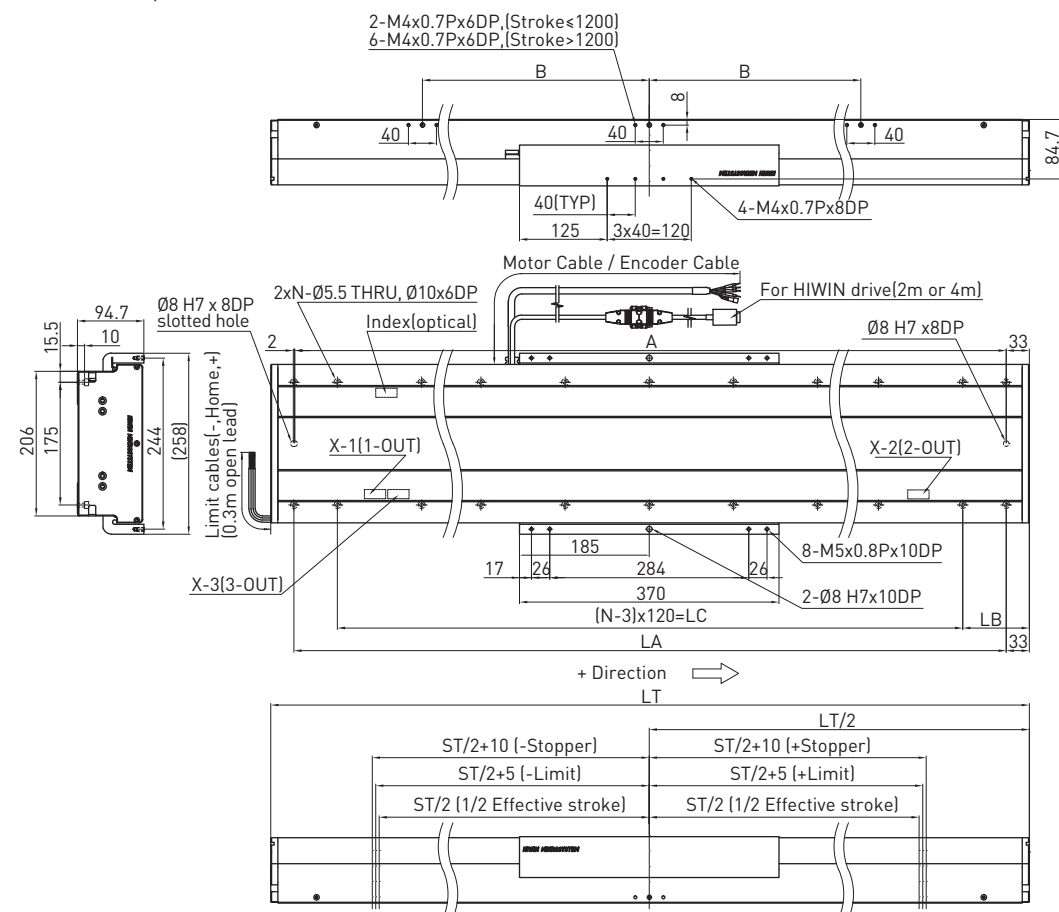
1: Single forcer
2: Dual forcers

Stroke (mm)

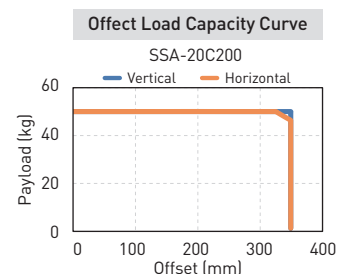
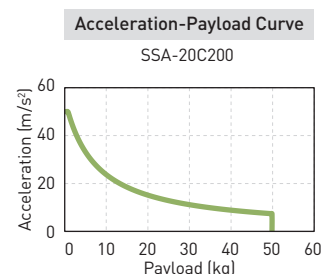
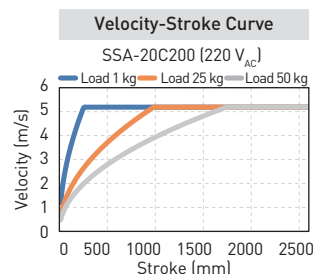
100~2600: Single forcer
100~2300: Dual forcers

SSA-20 Series Single Forcer

SSA-20C200 High Dustproof Type (M)	Stroke 100~2500
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20C200-1-M																				
Stroke [ST]	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	
LT	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	
N	7	7	7	7	7	9	9	9	9	9	11	11	11	11	11	13	13	13	15	
LA	514	564	614	664	714	764	814	864	914	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	
LB	50	75	100	125	150	55	80	105	130	155	60	85	110	135	160	65	90	115	20	
LC	480	480	480	480	480	720	720	720	720	720	960	960	960	960	960	1200	1200	1200	1440	
A	513	563	613	663	713	763	813	863	913	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weight [kg]	22.2	23.7	25.6	27.2	28.8	30.4	32.0	33.6	35.2	36.8	38.4	40.0	41.6	43.2	44.8	46.4	48.0	49.6	51.2	
Stroke [ST]	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	-	
LT	1530	1580	1630	1680	1730	1780	1880	1980	2080	2180	2280	2380	2480	2580	2680	2780	2880	2980	-	
N	15	15	15	15	15	17	17	17	19	19	21	21	21	23	25	25	25	27	-	
LA	1464	1514	1564	1614	1664	1714	1814	1914	2014	2114	2214	2314	2414	2514	2614	2714	2814	2914	-	
LB	45	70	95	120	145	50	100	150	80	130	60	110	160	90	20	70	120	50	-	
LC	1440	1440	1440	1440	1440	1680	1680	1680	1920	1920	2160	2160	2160	2400	2640	2640	2640	2880	-	
A	1463	1513	1563	1613	1663	1713	1813	1913	2013	2113	2213	2313	2413	2513	2613	2713	2813	2913	-	
B	-	-	-	-	600	600	600	600	600	840	840	840	840	840	1080	1080	1080	1080	-	
Weight [kg]	52.8	54.4	56.0	57.6	59.2	60.8	64.0	67.1	70.3	73.5	76.7	79.9	83.1	86.3	89.5	92.7	95.9	99.1	-	

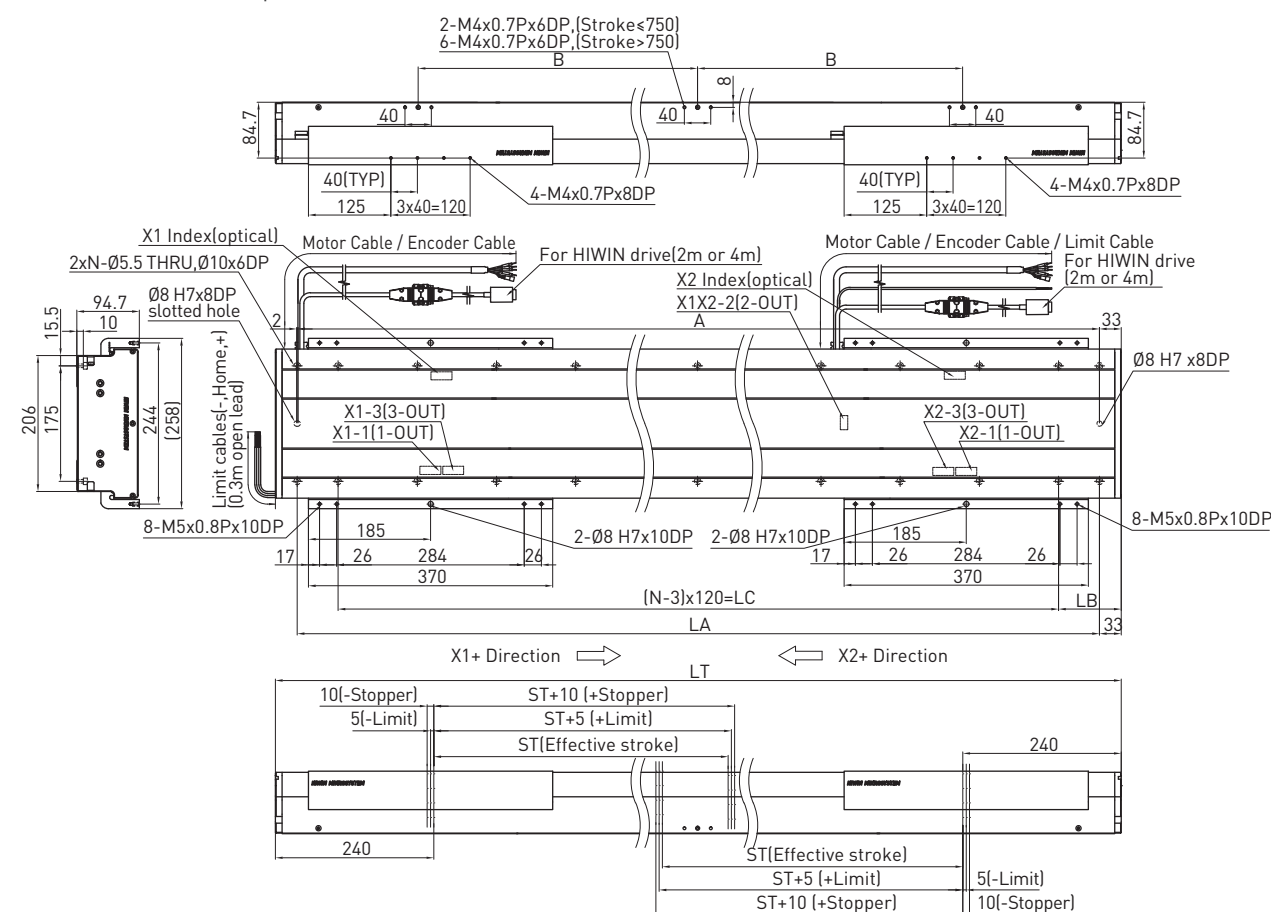


Note:

1. When the load exceeds 10 kg, please use the online selection program to confirm the conditions.
2. The offset load capacity is tested under the condition of $V=1$ m/s with 30000 km lifespan.
3. To ensure accuracy and lifespan, it's recommended that the flatness of the installation surface be within 0.02/300 mm.
4. For a schematic of offset load, please refer to page 12.

SSA-20 Series Dual Forcers

SSA-20C200 High Dustproof Type (M)	Stroke 100~2000
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20C200-2-M																
Stroke	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Effective Stroke [ST]	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890
LT	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780
N	9	11	11	11	11	11	13	13	13	15	15	15	15	15	15	17
LA	964	1014	1064	1114	1164	1214	1264	1314	1364	1414	1464	1514	1564	1614	1664	1714
LB	155	60	85	110	135	160	65	90	115	20	45	70	95	120	145	50
LC	720	960	960	960	960	960	1200	1200	1200	1440	1440	1440	1440	1440	1440	1680
A	963	1013	1063	1113	1163	1213	1263	1313	1363	1413	1463	1513	1563	1613	1663	1713
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	600
Weight [kg]	44.0	45.6	47.2	48.7	50.3	51.9	53.5	55.1	56.7	58.3	59.9	61.5	63.1	64.7	66.3	67.9
Stroke [ST]	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000
Effective Stroke [ST]	940	990	1040	1090	1140	1190	1240	1290	1340	1440	1540	1640	1740	1840	1940	2040
LT	1830	1880	1930	1980	2030	2080	2130	2180	2230	2330	2430	2530	2630	2730	2830	2930
N	17	17	17	17	19	19	19	19	19	21	21	23	23	25	25	25
LA	1764	1814	1864	1914	1964	2014	2064	2114	2164	2264	2364	2464	2564	2664	2764	2864
LB	75	100	125	150	55	80	105	130	155	85	135	65	115	45	95	145
LC	1680	1680	1680	1680	1920	1920	1920	1920	1920	2160	2160	2400	2400	2640	2640	2640
A	1763	1813	1863	1913	1963	2013	2063	2113	2163	2263	2363	2463	2563	2663	2763	2863
B	600	600	600	600	600	600	600	840	840	840	840	840	840	1080	1080	1080
Weight [kg]	69.5	71.1	72.7	74.3	75.9	77.5	79.1	80.7	82.3	85.5	88.7	91.8	95.0	98.2	101.4	104.6

Model Description

LMSSA-20C200-□-□□□□-□□.□□-M-S-A0000

Cables

Please refer to page
5, 9, 11

Number of forcers

1: Single forcer
2: Dual forcers

Stroke (mm)

100~2500: Single forcer
100~2000: Dual forcers

Drive

Drive

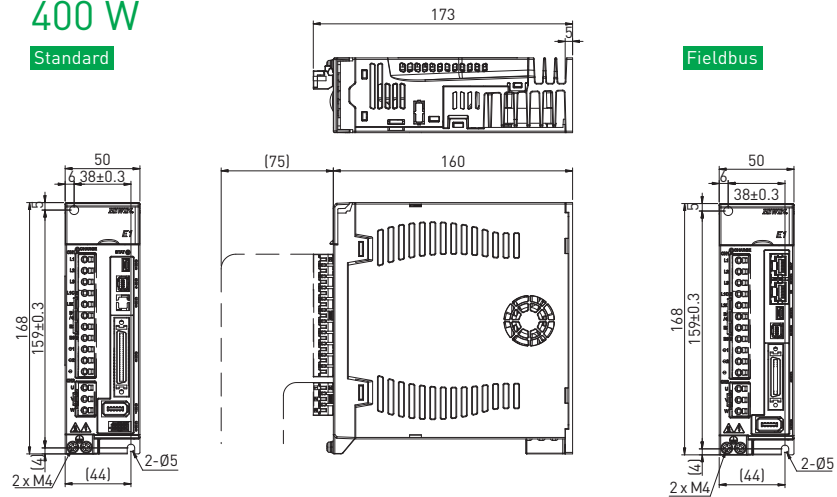
Add HIWIN drive to save development and installation time.
Error mappingcompleted pre-shipment when LMSSA is purchased with HIWIN drive E1 or E2.

Features		E1	E2
Features	Continuous Current (Arms)	12	9.4
	Selection Suggestions	High Dynamic Response, Ripple Compensation and Gantry Control	
	EtherCAT / mega-ulink	●	●
	MECHATROLINK III	●	
	PROFINET	●	
	Supports Digital Encoder Signal	●	●
	Supports Analog Encoder Signal	● Note ¹	●
	Supports Absolute Encoder Signal	● Note ¹	●
	Supports Hall Encoder	● Note ¹	●
	Error Mapping	●	●
	Vibration Suppression Function	●	●
	Optimized Closed-Loop Frequency Response	●	●
	Programmable PDL	●	●
	Hall Sensor	● Note ¹	●
	Temperature Detection and Control Function	● Note ¹	●
	High Acceleration & Deceleration / Fast Settling Time	●	●
	Position Trigger (PT)	●	●
	Safe Torque Off Function	●	● Note ²
	Ripple Compensation	●	●
	Gantry Structure	●	●
	2D error compensation		●
	Nanopositioning		●

Note:
1. Excellent Smart Cube (ESC) is required, the information in P.87.
2. STO safety function certification pending...

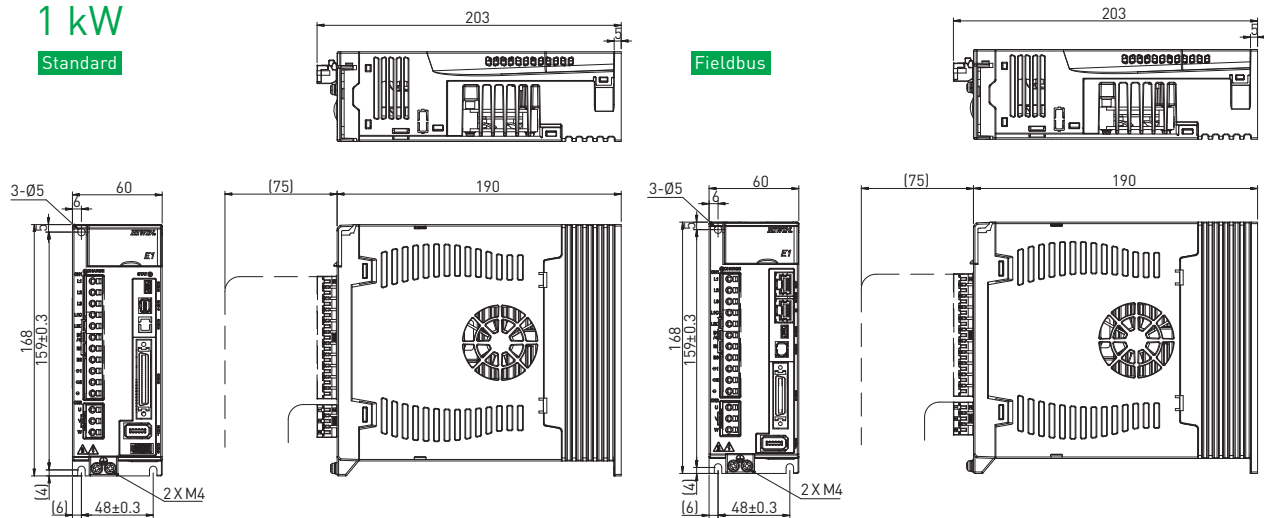
400 W

Standard



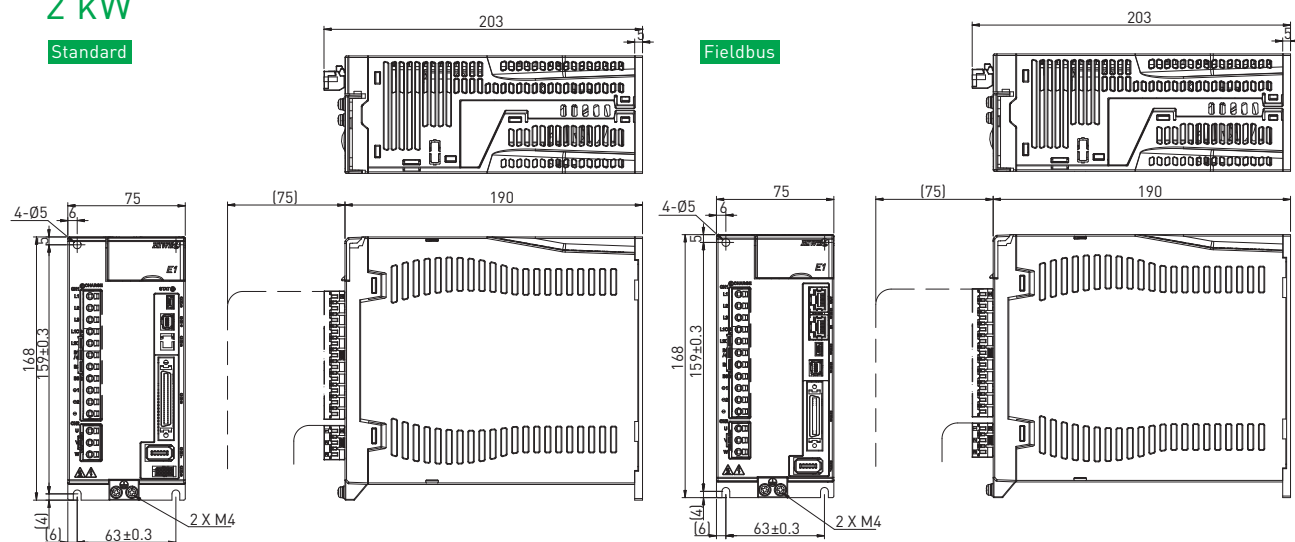
1 kW

Standard



2 kW

Standard

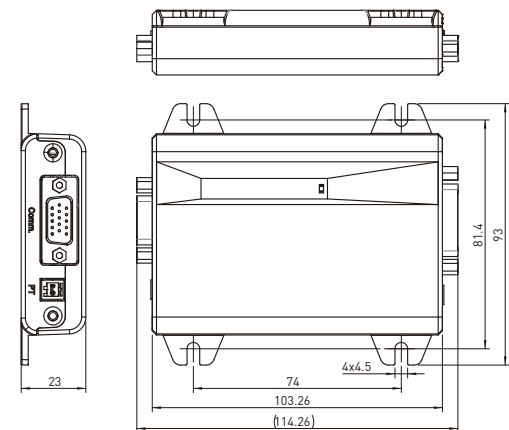


Unit: mm

ESC Hardware



Excellent Smart Cube(ESC)



Item	Description					
Maximum Output Voltage / Current (DC)	+5.0 V ±5% / 650 mA					
Supported Signal Type	Digital Hall Sensor	Analog Incremental Signal	Digital Incremental Signal	Absolute Type *2		
	Hall U / V / W	SIN / COS / Reference	A / B / Index	BiSS-C	Tamagawa	EnDat 2.1 / 2.2
Maximum SignalBandwidth	2 kHz	1 MHz (Minimum multiplier factor: 4 times) *1 (Maximum multiplier factor: 40% times)	5 MHz	5 MHz	5 MHz	4 MHz
Maximum Data Length	-	-	-	46 bit*13	-	46 bit*3
Input Signal Format	5V CMOS / TTL	Differential signal (RS-422) 0.4 Vpp ~ 1.2 Vpp	Differential signal (RS-422) 5 V TTL	Differential signal (RS-485)		
Motor Thermal Protection (TS)	Supports thermal sensor based on positive temperature coefficient (PTC) thermistor					
Operating Temperature	0 °C to + 45 °C					
Storage Temperature	-20 °C to + 65 °C					
Ingress Protection Rating	IP20					

Name	HIWIN Part Number	Description
ESC encoder communication cable.	HE00EJUDA100	ESC to E1 drive encoder communication port

Note:

- (1) A multiplier factor should be a multiply of 4.
- (2) The counting length of the travel distance cannot be more than 32 bit. For example, if the resolution is 1 nm/count, the total travel distance cannot be more than 4.29 m.
- (3) BiSS-C or EnDat are single-turn and 30 bit, or multi-turn and 16 bit.

Model Description

ESC - SS - S01

Signal Format

SS: SIN/COS + A/B + BiSS-C + EnDat

Reserved

S01: Full function type
S02: General type

Note:

- (1) ESC-SS supports EnDat 2.1/2.2 or BiSS-C serial encoder.
- (2) In full-closed loop control, ESC-SS-S01 and ESC-SS-S02 can support two sets of encoders at the same time. Refer to section 8.16.1 in "E1 Series Servo Drive User Manual" for the detailed arrangements.

Drive Specification

Rated Output			400 W	1 kW	1.2 kW	5 kW
Input Power	Single Phase Main Power	Rated Voltage (Line to Line)	AC 100~120 Vrms, 50~60 Hz AC 200~240 Vrms, 50~60 Hz			AC 380~480 Vrms, 50~60 Hz
		Rated Current (Arms)	2.9	6.58	11.1	12.6
	Three Phase Main Power	Rated Voltage (Line to Line)	AC 200~240 Vrms, 50~60 Hz			-
		Rated Current (Arms)	1.46	3.3	5.78	-
	Control Power		1 Ø/AC 100~120 Vrms, 50~60 Hz 1 Ø/AC 200~240 Vrms, 50~60 Hz			DC 24 V±15%, 2A
Output Power	Phase Voltage		3 Ø/AC 240 Vrms max.			3 Ø/AC 480 Vrms max.
	Max Rated Power (W)		400	1 k	1.2 k	5 k
	Peak Current (Arms)		10	23.3	23.3	42
	Rated Current (Arms)		2.5	5.6	9	16
Power Loss Data (W)			< 40	< 80	< 80	< 250
PWM Modulation Frequency			16 kHz		8 kHz	
Dynamic Brake			<ul style="list-style-type: none">Built-in dynamic brake circuit400 W / 500 W / 5 kW: no built-in dynamic brake resistorDelay time of relay: 20 ms			
Built-in Resistor for Dynamic Brake			-	5.1 Ω / 7 W		-
Regenerative Energy Protection	Regenerative Resistor		<ul style="list-style-type: none">400 W / 500 W: Without built-in regenerative resistor Connect to external regenerative resistor if needed.1 kW / 1.2 kW / 2 kW / 4 kW / 5 kW: With built-in regenerative resistor. Connect to external regenerative resistor to increase regenerative capacity.			
	Built-in Regenerative Resistor		-	40 Ω / 40 W		27 Ω / 180 W
	DC Link Capacitance [uF]		820	1410		560
	Protection of Regenerative Resistor Enabled		+HV > 370 Vdc			+HV > 620 Vdc~770 Vdc
	Protection of Regenerative Resistor Disabled		+HV < 360 Vdc			+HV < 600 Vdc~755 Vdc
	Overvoltage Protection		390 Vdc			800 Vdc
Environment	Operating Temperature		0~45 °C (45~50 °C is acceptable when derated value is applied. Please refer to section 4.5)			0~40 °C
Weight (kg)			1.1	1.6	1.6	4.0

Note:
*When using 1-phase 200 V AC to 240 V AC power supply, operate the servo amplifier at 75 % (9 Arms) or smaller effective load ratio.

Category				Servo drive specification	
Cooling Method				Fan cooling	
Control Method				IGBT PWM space vector control	
Applicable Motor				AC/DM/LM (Depending on encoder type, Excellent Smart Cube (ESC) may be required.)	
STAT LED Indicator				<ul style="list-style-type: none">Blinking red: ErrorBlinking green: ReadyGreen: EnabledThere is no STAT LED indicator on Fieldbus servo drive.	
CHARGE LED Indicator				<ul style="list-style-type: none">Red: The main power is supplied.No light: The main power is not supplied.	
Analog Output				<ul style="list-style-type: none">Channel: 2Resolution: 12 bitOutput voltage range: ±10 VAccuracy: ±2%Maximum output current: ± 10 mA	
Control Function	Position Mode	Command Source		Pulse command from controller	
		Signal Type		<ul style="list-style-type: none">Pulse/DirectionCW/CCWAqB	
		Isolated Circuit		High-speed optical coupler	
		Input Signal		Differential input (high level is higher than 2.85 V, low level is lower than 0.85 V) or single-ended input (12~24 VDC)	
		Maximum Input Bandwidth		<ul style="list-style-type: none">Differential: 5 MppsSingle-ended: 200 Kpps	
		Electronic Gear		Gear ratio: pulses/counts Pulses: 1~1,073,741,824 Counts: 1~1,073,741,824	
	Velocity Mode	Command Source		DC voltage command from controller	
		Analog Input	Impedance	14 Ω	
			Signal Format	±10 Vdc	
			Maximum Input Bandwidth	100 Hz	
			Specification	16-bit A/D input (V-REF±)	
	Torque Mode	Command Source		DC voltage command from controller	
		Analog Input	Impedance	14 Ω	
			Signal Format	±10 Vdc	
			Maximum Input Bandwidth	100 Hz	
			Specification	16-bit A/D input (T-REF±)	

Category			Servo drive specification
Control Mode			1. Position mode 2. Velocity mode 3. Torque mode 4. Full-closed loop mode (Dual loop mode)
Computer Communication	Standard USB2.0 (Mini USB type)		Connect the servo drive with your computer to set parameters, monitor physical quantities and execute trial operation via Thunder.
Encoder	Power Supply		+5.1 Vdc ±5%, 700 mA
	Signal Format		<ul style="list-style-type: none">Serial signal Resolution: 23 bit (Single-turn/multi-turn absolute encoder) Bandwidth: 5 MHzIncremental signal (Digital differential TTL signal) AqB and Z-phase signals Quadruple frequency, 20 M-counts/s
	Safety Function		<ul style="list-style-type: none">Encoder power malfunction detectionShort circuit protectionUndervoltage protectionOvervoltage protectionEncoder alarm protection (Digital differential TTL signal)
	Position Counting Range		-2,147,483,648 ~ 2,147,483,647 [32 bit]
	Linear Motor/Direct Drive Motor		Depending on encoder type, Excellent Smart Cube (ESC) may be required.
Encoder Output	Emulated Encoder Output	Z Phase	1. Serial encoder and incremental encoder (AqB, sin/cos) are supported. 2. The width of output signal can be adjusted by parameter. 3. Digital differential signal output 4. Z-phase open collector output is supported. 5. Two output methods can be selected. <ul style="list-style-type: none">Outputs one Z-phase signal per one revolution.Only outputs one Z-phase signal for total travel distance. 6. Fieldbus servo drive does not support Z phase output.
		A/B Phase	1. Serial encoder and digital encoder (AqB) are supported. 2. Differential signal output. The maximum output bandwidth is 18 Mcount/s. 3. The scaling of output can be adjusted. For instance, ten encoder counts = one emulated encoder count. 4. Fieldbus servo drive is only supported in Thunder versions after 1.9.11.0.
	Buffered Encoder Output	Z Phase	1. Only supports digital encoder (AqB). 2. Differential signal output. 3. Supports Z phase open-collector output.
		A/B Phase	1. Only supports digital encoders (AqB). 2. Differential signal output, maximum output bandwidth 20 Mcount/s.
General-purpose I/O	Input		The functions of general-purpose inputs (Optical couplers) can be defined by users. E1 series servo drive provides ten general-purpose inputs (I1 to I10). Fieldbus servo drive only provides eight general-purpose inputs (I1 to I8) 24 V/5 mA (Each input pin)
	Output		The functions of general-purpose outputs (Optical couplers) can be defined by users. E1 series servo drive provides five general-purpose outputs (O1 to O5) 24 V/0.1 A (Each output pin)
	Position Trigger (PT)		The pins for position trigger (PT) output function are CN6-46 and 47 (Differential signal). Differential 3.3 V, maximum current 20 mA.

Category		Servo drive specification
Optional Function		Gantry synchronization control function
Environment	Storage Temperature	-20 °C ~ 65 °C
	Humidity	Operating and storage temperature: 20 to 85 % RH (Non-condensing)
	Altitude	Altitude 1,000 M or lower above sea level (1000 ~ 3000 M is acceptable when derated value is applied. Please refer to section 4.5 in "E1 Series Servo Drive User Manual")
	Vibration	Less than 0.5 G Frequency 10 to 500 Hz (No continuous use under resonance frequency)
	IP Rating	IP20
	Cleanness	<ul style="list-style-type: none">No corrosive materials and flammable gas.No water, oil and chemical agent splash.Environment with less soil, dust, salt and iron powder.

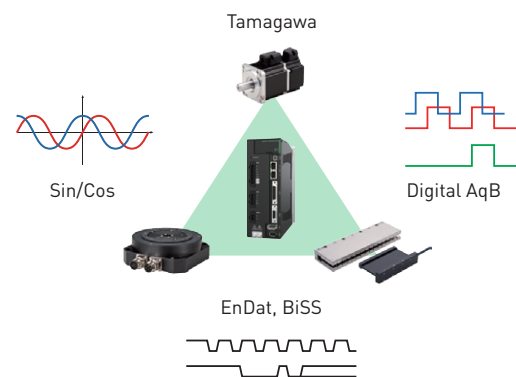
E2 Drive

- 3.2 kHz speed response
- Tuneless function
- Advanced auto tuning
- Ripple compensation
- Unique gantry control function
- Network with industrial communication devices
- Supports various motor types
- Built-in STO function
- Supports various encoder interface protocols, such as Digital, Analog, Tamagawa, EnDat and BiSS-C



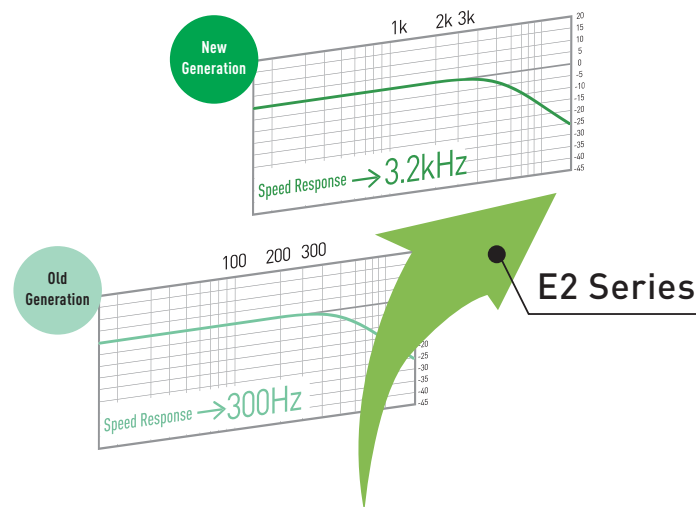
1 Supports Various Encoder / Motor Types

Support AC Servo Motors, Direct Drive Motors, Linear Motors, and various encoder formats.



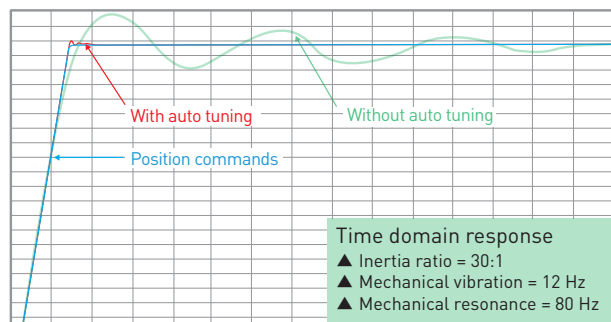
2 3.2 kHz Speed Response

Higher speed response, faster settling time, and productivity.



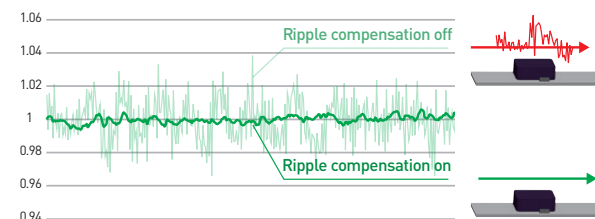
3 Advanced Auto-Tuning

This function supports automatic loop gains tuning and filters adjustment to suppress mechanical vibration and resonance, which optimizes machine performance.



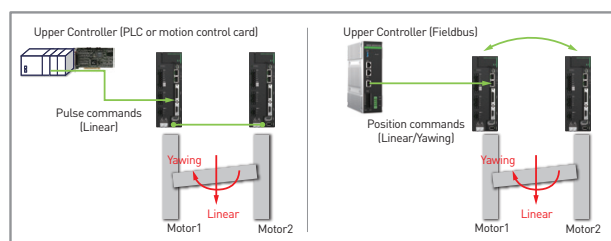
4 Ripple Compensation

Effectively suppress the speed ripple caused by cogging in ironcore motor and achieve smooth motion in detection and scanning applications.



5 Unique Gantry Control Function

With the connection of two E2 servo drives, the linear and yawing movement of a gantry can be easily controlled.



6 Network with Industrial Communication

Support EtherCAT® and HIWIN Mega-ulink optimized.



E2 Model Description

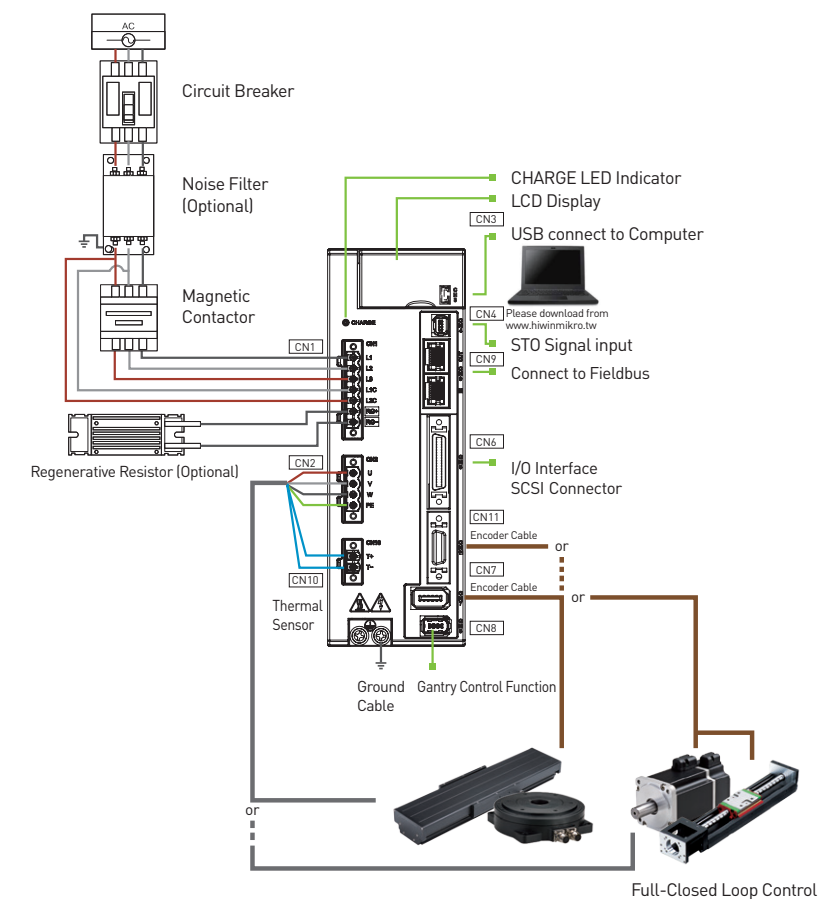
Type	Control Interface	Function Model	AC Power Input
E D 2 S - V 0 - 0 0 3 - 1 - C - 0 0	S: Standard F: Fieldbus	AC: A Basic: B Advanced: C GT: T	Single/Three-phase 100~240 Vac (Rated 003, 006, 009): 1 Three-phase 200~240 Vac (Not supported yet): 2 Three-phase 380~480 Vac (Not supported yet): 3
Rated Output	V0: Voltage command and Pulse E0: EtherCAT (CoE) H3: Mega-ulink (MoE) ¹⁾		
003: 3 Arms (500 W) 006: 6.3 Arms (1 kW) 009: 9.4 Arms (1.2 kW)			

Note :
It is used with HIWIN MoE HIMC motion controller or API/MPI motion control command library. When using API/MPI motion control command library with servo drive, users should carefully read through "API/MPI Library Reference Manual" to confirm if Windows system is supported.

Function Explanation

Function Model	AC	Basic	Advanced	GT
Supported Motor	AC Servo Motor	Linear Motor, Direct Drive Motor	AC Servo Motor, Linear Motor, Direct Drive Motor	
Speed Response Bandwidth	3.1 kHz	0.3 kHz	3.1 kHz	3.1 kHz
Supported Function	<ul style="list-style-type: none"> Multi-motion function Velocity ripple compensation Fast tuning function Tuneless function of AC motor Gantry control function Position trigger 	<ul style="list-style-type: none"> Multi-motion function Velocity ripple compensation Fast tuning function 	<ul style="list-style-type: none"> Multi-motion function Velocity ripple compensation Fast tuning function Tuneless function of AC motor Gantry control function Position trigger 	<ul style="list-style-type: none"> Multi-motion function Velocity ripple compensation Fast tuning function Tuneless function of AC motor Gantry control function Position trigger 2D error map Nano-positioning

E2 Wiring Diagram



E2 Drive Specification

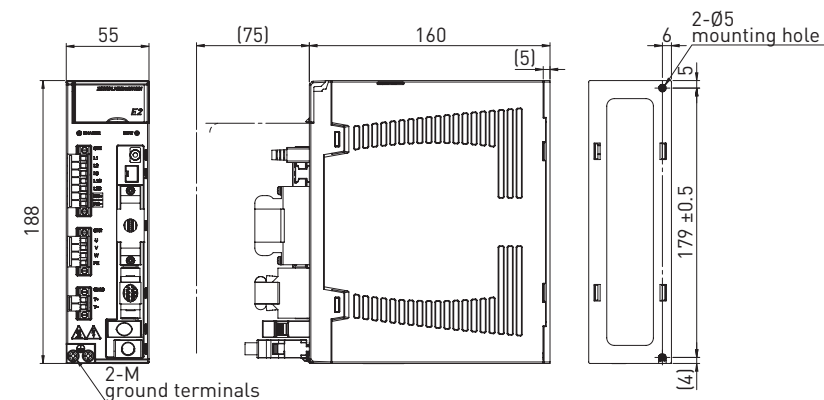
Servo Drive Model			ED2□-□□-003	ED2□-□□-006	ED2□-□□-009
Input Power	Single Phase Main Power	Rated Voltage (Line to Line)	AC 100 ~ 120 Vrms, 50 ~ 60 Hz AC 200 ~ 240 Vrms, 50 ~ 60 Hz		
		Rated Current (Arms)	5.8	9.0	12.8
	Three Phase Main Power	Rated Voltage (Line to Line)	AC 200 ~ 240 Vrms, 50 ~ 60 Hz		
		Rated Current (Arms)	2.5	5.0	6.8
	Control Power		1 Ø / AC 100 ~ 120 Vrms, 50 ~ 60 Hz 1 Ø / AC 200 ~ 240 Vrms, 50 ~ 60 Hz		
	Inrush Current of Main Power (Apk)		14.2	14.2	23.4
	Inrush Current of Control Power (Apk)		17.7	17.7	17.7
	Output Power	Phase Voltage		3 Ø / AC 240 Vrms max	
Max Rated Power (W)		500	1000	1200	
Peak Current (Arms)		12	18	28.3	
Rated Current (Arms)		3	6.3	9.4	
Power Loss Data (W)			< 40	< 60	< 80
PWM Modulation Frequency			16 kHz		
Dynamic Brake			<ul style="list-style-type: none">Built-in dynamic brake circuitED2 □ - □□ - 003 / ED2 □ - □□ - 006: no built-in dynamic brake resistorDelay time of relay: 20 ms		
Built-in Resistor for Dynamic Brake			-	-	10.2 Ω / 7 W
Regenerative Energy Protection	Regenerative Resistor		<ul style="list-style-type: none">Without built-in regenerative resistor. Connect to external regenerative resistor if needed.		
	Built-in Regenerative Resistor		-	-	-
	Capacitance [uF]		780	780	1410
	Protection of Regenerative Resistor Enabled		+HV > 370 Vdc		
	Protection of Regenerative Resistor Disabled		+HV < 360 Vdc		
	Overvoltage Protection		390 Vdc		
Environment	Operating Temperature		0 ~ 45 °C		
Fan cooling			No	Yes	Yes
Weight (kg)			Fieldbus: 1.20 Kg Standard:1.18 Kg	Fieldbus: 1.20 Kg Standard:1.22 Kg	Fieldbus: 1.72 Kg Standard:1.76 Kg

Category			Servo Drive Specification	
Control Method			IGBT PWM space vector control	
Applicable Motor			AC Servo Motor, Direct Drive Motor, Linear Motor.	
STAT LED Indicator			<ul style="list-style-type: none">• Blinking red: Error• Blinking green: Ready• Green: Enabled• There is no STAT LED indicator on Fieldbus servo drive	
CHARGE LED Indicator			<ul style="list-style-type: none">• Red: The main power is supplied• No light: The main power is not supplied	
Analog Output			<ul style="list-style-type: none">• Channel: 2• Resolution: 12 bits• Output voltage range: $\pm 10\text{ V}$• Accuracy: $\pm 2\%$• Maximum output current: $\pm 10\text{ mA}$	
Control Function	Position Mode	Command Source		Pulse command from controller
		Signal Type		<ul style="list-style-type: none">• Pulse / Direction• CW / CCW• AqB
		Isolated Circuit		High-speed optical coupler
		Input Signal		<ul style="list-style-type: none">• Differential input ($2.8\text{ Vdc} \leq \text{potential difference} \leq 3.7\text{ Vdc}$)• Single-ended input (12~24 Vdc)
		Maximum Input Bandwidth		<ul style="list-style-type: none">• Differential: 5 Mpps• Single-ended: 500 kpps
		Electronic Gear		Gear ratio: pulses / counts
				Pulses: 1~1,073,741,824
				Counts: 1~1,073,741,824
	Velocity Mode	Command Source		DC voltage command from controller
		Analog Input	Impedance	14 k Ω
			Signal Format	$\pm 10\text{ Vdc}$
			Maximum Input Bandwidth	100 Hz
			Specification	16 bit A/D input (V-REF \pm)
		Torque Mode	Command Source	
	Analog Input		Impedance	14 k Ω
			Signal Format	$\pm 10\text{ Vdc}$
			Maximum Input Bandwidth	100 Hz
			Specification	16 bit A/D input (T-REF \pm)
	Control Mode			1. Position mode 2. Velocity mode 3. Torque mode 4. Full-closed loop mode (Dual loop mode)
Computer Communication	Standard USB 2.0 (Mini USB type)		Connect the servo drive with the computer to set parameters, monitor physical quantities and execute trial operation via Thunder.	

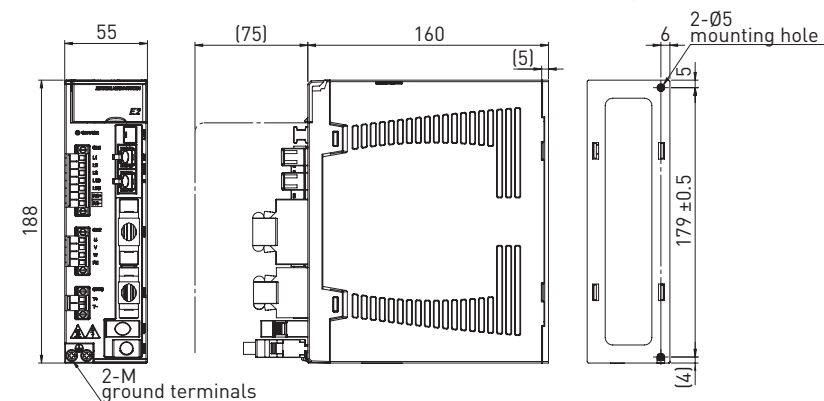
Category				Servo Drive Specification
Encoder	Power Supply			+5.1 Vdc ±5 %, 2000 mA
	Signal Format	Serial signal	TAMAGAWA	<ul style="list-style-type: none">Resolution: 23 bitsBandwidth: 5 MHz
			BiSS-C	<ul style="list-style-type: none">Maximum Data Length: 64 bitsBandwidth: 5 MHz
			EnDAT	<ul style="list-style-type: none">Maximum Data Length: 64 bitsBandwidth: 4 MHz
		Incremental signal	Digital	<ul style="list-style-type: none">AqB and Z-phase signalsThe maximum input bandwidth of each phase is 12.5 MHzQuadruple frequency: 50 Mcounts/s
			Analog	<ul style="list-style-type: none">SIN/COS signal (differential signal)The maximum input bandwidth is 1 MHzInput signal is 0.3~1.2 Vpp
	Safety Function			<ul style="list-style-type: none">Encoder power malfunction detectionEncoder alarm protection (Digital differential signal)Main power overvoltage and undervoltage protection
Maximum Position Counting Range			-2,147,483,648 ~ 2,147,483,647 (32 bit)	
Encoder Output	Emulated Encoder Output	Z Phase (Fieldbus servo drive does not support)		<ul style="list-style-type: none">Serial encoder and incremental encoder (AqB, sin/cos) are supportedThe width of output signal can be adjusted by parameterDigital differential signal outputZ-phase open collector output is supportedTwo output methods can be selected<ul style="list-style-type: none">Only outputs one Z-phase signal for total travel distanceOutputs one Z-phase signal per one revolution
		A / B Phase		<ul style="list-style-type: none">Serial encoder and digital encoder (AqB) are supportedDifferential signal outputThe maximum output bandwidth is 18 Mcount/sThe scaling of output can be adjusted. For instance, ten encoder counts = one emulated encoder count.
	Buffered Encoder Output	Z Phase		<ul style="list-style-type: none">Only supports digital encoder (AqB)Differential signal outputSupports Z phase open-collector output
		A / B Phase		<ul style="list-style-type: none">Only supports digital encoders (AqB)Differential signal output, maximum output bandwidth 20 Mcount/s
General-purpose I/O	Input			<ul style="list-style-type: none">The functions of general-purpose inputs (Optical couplers) can be defined by usersE2 series servo drive provides ten general-purpose inputs (I1 to I10)Fieldbus servo drive only provides eight general-purpose inputs (I1 to I8)5~24 Vdc/5 mA (Each input pin)
	Output			<ul style="list-style-type: none">The functions of general-purpose outputs (Optical couplers) can be defined by usersE2 series servo drive provides five general-purpose outputs (O1 to O5)24 Vdc/0.1 A (Each output pin)
	Position Trigger (PT)*			<ul style="list-style-type: none">The pins for position trigger (PT) output function are CN6-46 and 47 (Differential signal)Differential signal, maximum current 20 mA, maximum output bandwidth 1MHz
Other Function				<ul style="list-style-type: none">Gantry synchronization control function*Motor over temperature protection (PTC)
Environment	Storage Temperature			-20°C ~ 65 °C
	Humidity			Operating and storage temperature: 20 to 85 % RH (Non-condensing)
	Altitude			Altitude 3,000 M or lower above sea level
	Vibration			Less than 0.5 G, Frequency 10 to 500 Hz (No continuous use under resonance frequency)
	IP Rating			IP20

Note: *For some of the functions, the eleventh code number of the servo drive needs to be confirmed.
Refer to 2.1.3 Function explanation in "E2 Series Servo Drive User Manual."

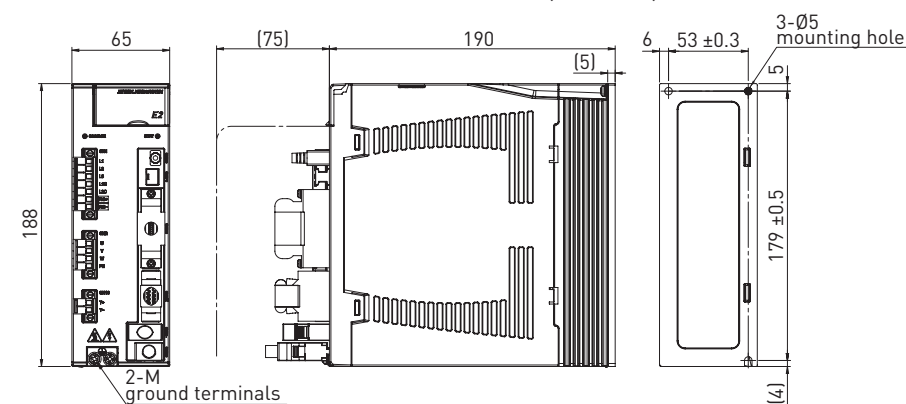
ED2S - □□ - 003 / ED2S - □□ - 006 servo drive (Standard)



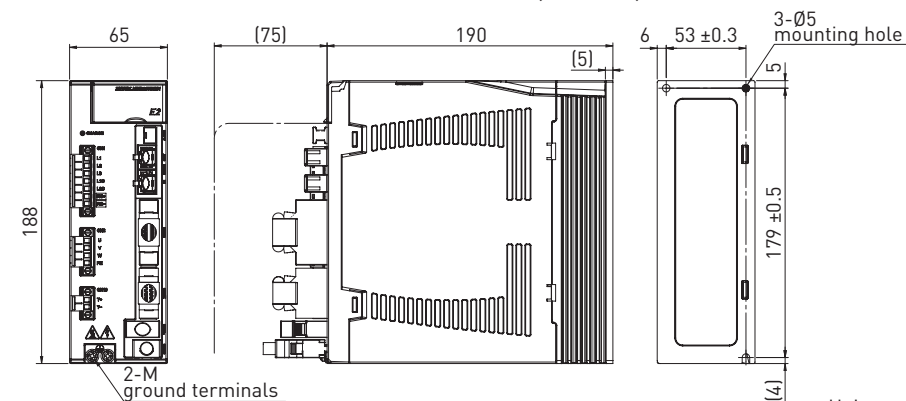
ED2F - □□ - 003 / ED2F - □□ - 006 servo drive (Fieldbus)



ED2S - □□ - 009 servo drive (Standard)



ED2F - □□ - 009 servo drive (Fieldbus)



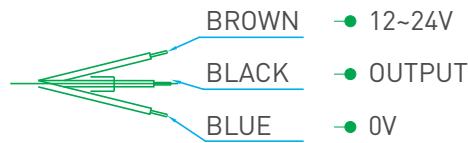
Unit:mm

Cable and Pin Assignment

Power Cable Pin Assignment

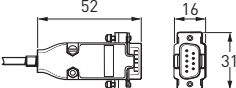
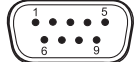
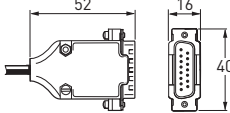
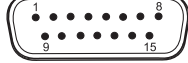
Ironcore Motor (A:Standard)		Ironcore Motor (B:High voltage)			Ironless Motor (A:Standard)	
Signal	Color	Signal	Color (08/10/13)	Color (18/20)	Signal	Color
U	Brown	U	Red	Black-1	U	Brown
V	White	V	White	Black-2	V	White
W	Gray	W	Black	Black-3	W	Gray
GND	Shield	GND	Green	Green / Yellow	GND	Shield
T+	Yellow	T+	Brown	Black-5	T+	Yellow
T-	Green	T-	Blue	Black-6	T-	Green
	Shield		Shield	Shield		Shield

Limit Switch Pin Diagram



Limit Switch			
Work	Function	Signal	Color
+Limit / -Limit / Near home sensor	Power	12V~24V	Brown
		0V	Blue
	Output	NPN / PNP	Black

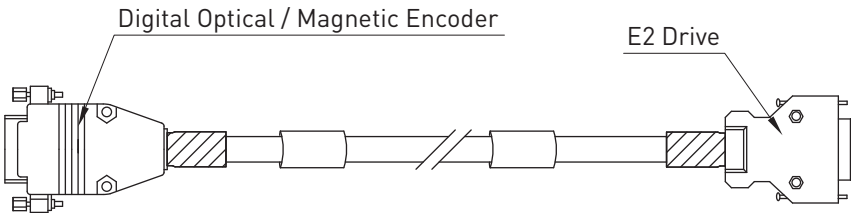
Encoder Cable Pin Assignment (Stage wiring side)

Type	Connector type		
D-Sub 9-pin (Male)			
D-Sub 15-pin (Male)			

	D-Sub 15-pin		D-Sub 9-pin
Pin no.	Analog	Digital	BiSS-C
	A,D,H	G,K,V	P,R
1	Sin-	-	-
2	Cos-	0V	MA+
3	V0+	-	MA-
4	5V	Z-	5V
5	5V	B-	5V
6	-	A-	SLO+
7	-	5V	SLO-
8	-	5V	0V
9	Sin+	0V	0V
10	Cos+	-	-
11	V0-	-	-
12	0V	Z+	-
13	0V	B+	-
14	-	A+	-
15	-	-	-
Plug housing	Shielding	Shielding	Shielding

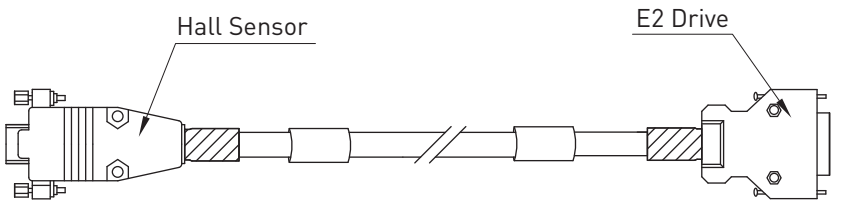
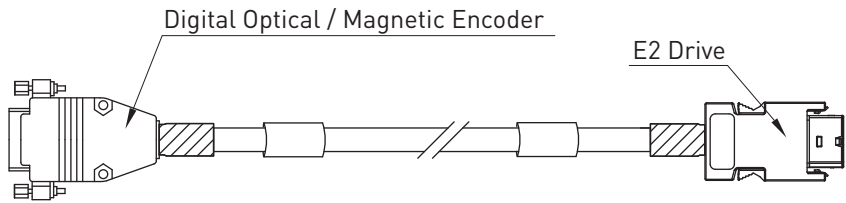
Encoder Extension Cable

Pin Assignment			
D-Sub 15P (F)	Color	Signal	SCSI 20P (M)
7	Blue	5V	3
8	Brown-Green		
2	White	0V	2
9	White-Green		
14	Gray	A+	4
6	Black	A-	5
13	Brown	B+	6
5	Green	B-	7
12	Yellow	Z+	8
4	Violet	Z-	9
3	Gray	E-	14
15	Inner Shield		20
Case	Outer Shield		1



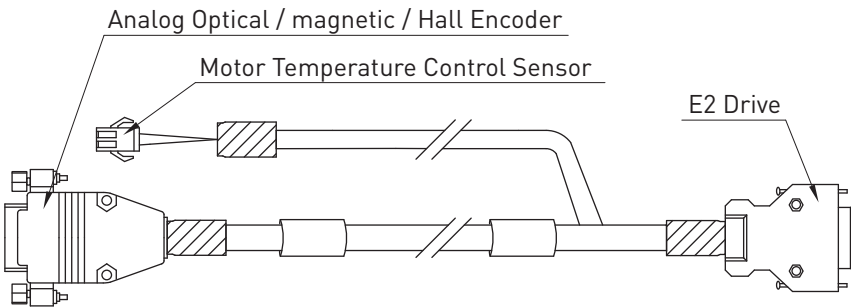
Corresponding Encoder (G,K,V) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E2	HE00EKDDG000	HE00EKDDG200	HE00EKDDG400

Pin Assignment			
D-Sub 15P (F)	Color	Signal	3M 36210 (M)
7	Blue	5V	1
2	White	0V	2
14	Red	V1+	5
6	Black	V1-	6
13	Brown	V2+	7
5	Green	V2-	8
12	Yellow	V0+	9
4	Violet	V0-	10
11	Gray	E+	3
3	Pink	E-	4
15	Inner Shield		2
Case	Outer Shield		Case
D-Sub 9P (F)	Color	Signal	SCSI 20P (M)
1	Blue (Red Dot)	5V	3
2	Blue (Black Dot)	Hall A	11
3	Gray (Red Dot)	Hall B	12
4	Gray (Black Dot)	Hall C	13
5	Pink (Red Dot)	0V	2
Case	Shield		1



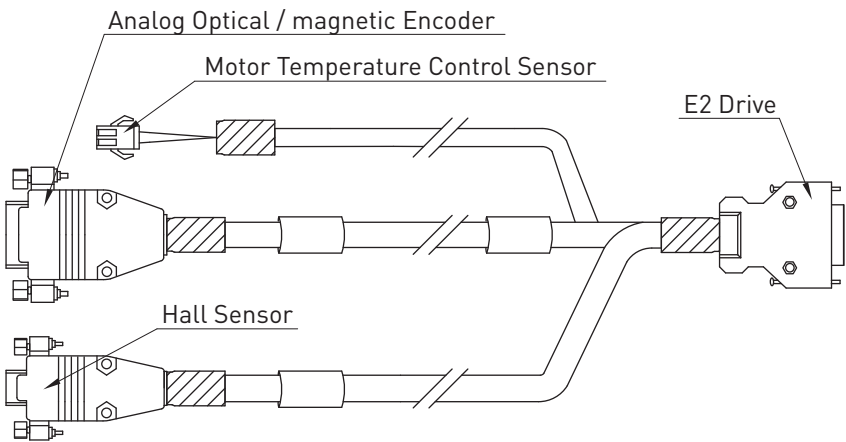
Corresponding Encoder (G,K,V) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E2	HE00EKDDC000+ HE00EKDDD000	HE00EKDDC200+ HE00EKDDD200	HE00EKDDC400+ HE00EKDDD400

Pin Assignment			
Housing (F)	Color	Signal	SCSI 20P (M)
1	Brown	T+	14
2	Blue	T-	15
D-Sub 15P (F)	Color	Signal	
4	Green	5V	3
12	Gray	0V	2
9	Black	V1+	16
1	Brown	V1-	17
10	Green	V2+	18
2	Yellow	V2-	19
3	Violet	V0+	8
11	Gray	V0-	9
15	Inner Shield		20
Case	Outer Shield		1, Case

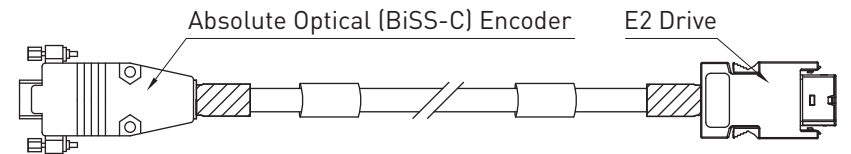


Corresponding Encoder (A,D,H) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E2	HE00VJQ86300	HE00VJQ85600	HE00VJQ85700

Pin Assignment			
Housing (F)	Color	Signal	SCSI 20P (M)
1	Brown	T+	14
2	Blue	T-	15
D-Sub 15P (F)	Color	Signal	
4	Brown	5V	3
12	White	0V	2
9	Green	V1+	16
1	Yellow	V1-	17
10	Blue	V2+	18
2	Red	V2-	19
3	Violet	V0+	8
11	Gray	V0-	9
15	Inner Shield		20
Case	Outer Shield		1, Case
D-Sub 9P (F)	Color	Signal	
1	Brown	5V	3
2	White	Hall A	11
3	Gray	Hall B	12
4	Yellow	Hall C	13
5	Green	0V	10
Case	Shield		1



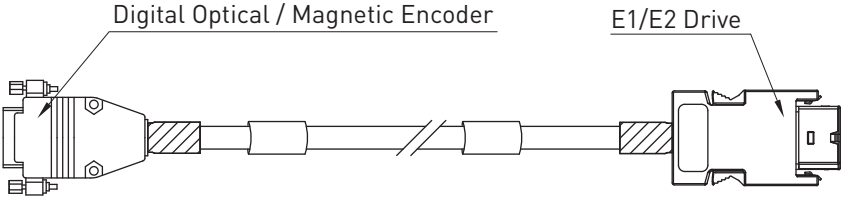
Pin Assignment			
D-Sub 9Pin (F)	Color [051400101217]	Signal	3M 36210 (M)
4	Blue (Red Dot)	5V	1
5	Blue (Black Dot)		
8	Gray (Red Dot)	0V	2
9	Gray (Black Dot)		
2	Pink (Red Dot)	MA+	5
3	Pink (Black Dot)	MA-	6
6	Green (Red Dot)	SLO+	7
7	Green (Black Dot)	SLO-	8
Case	Outer Shield		Case



Corresponding Encoder (P,R) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E2	HE00EKDDE004	HE00EKDDE200	HE00EKDDE400

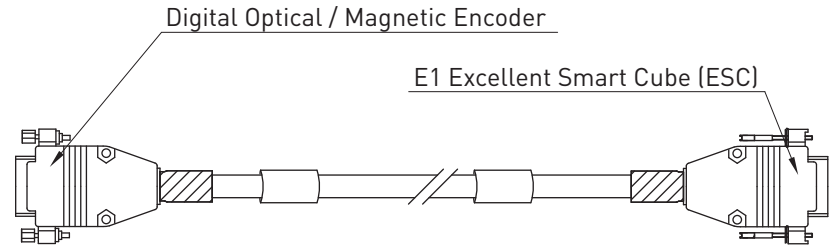
Corresponding Encoder (A,D) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E2	HE00VJQ86400	HE00VJQ85800	HE00VJQ85900

Pin Assignment			
D-Sub 15P (F)	Color	Signal	R-36210 (F)
7	Brown	5V	1
8	Pink		
2	White	0V	2
9	Black		
11	Orange	PS+	3
3	Clear	PS-	4
14	Green	A+	5
6	Yellow	A-	6
13	Blue	B+	7
5	Red	B-	8
12	Violet	Z+	9
4	Gray	Z-	10
15	Inner Shield		2
Case	Outer Shield		Case



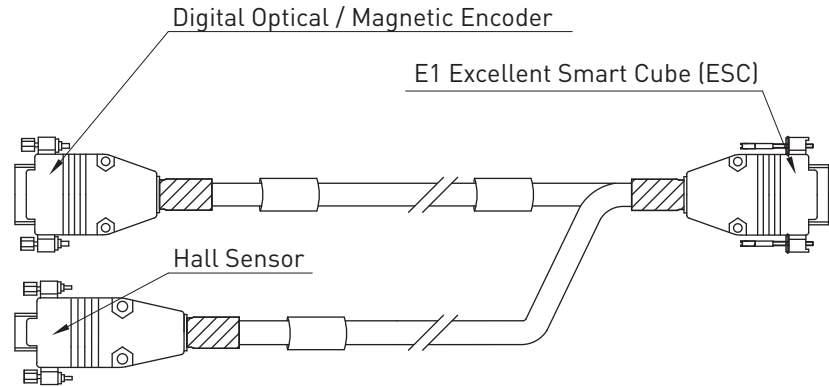
Corresponding Encoder (G,K,V) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E1 / E2	HE00EJ6DFH00	HE00EJ6DF200	HE00EJ6DF400

Pin Assignment			
D-Sub 15P (F)	Color	Signal	(HD) VGA 26Pin (M)
7	White	5V	4
8	Green		
2	Brown	0V	13
9	Yellow		
14	Grey	V1+	19
6	Pink	V1-	20
13	Blue	V2+	21
5	Red	V2-	22
12	Black	V0+	3
4	Violet	V0-	12
11	White/Green	E+	7
3	Brown/Green	E-	17
15	Inner Shield		15
Case	Outer Shield		Case



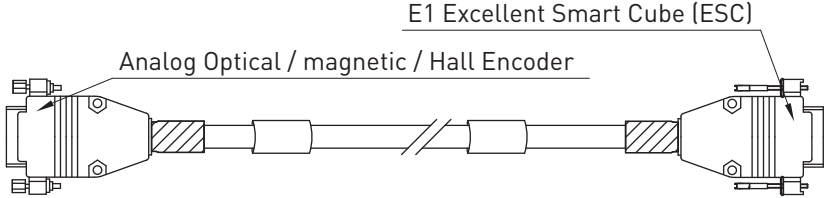
Corresponding Encoder (G,K,V) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E1	HE00EKTDDQ00	HE00EKTDD200	HE00EKTDD400

Pin Assignment			
D-Sub 15P (F)	Color	Signal	(HD) VGA 26Pin (M)
7	White	5V	4
8	Green		
2	Brown	0V	13
9	Yellow		
14	Grey	V1+	19
6	Pink	V1-	20
13	Blue	V2+	21
5	Red	V2-	22
12	Black	V0+	3
4	Violet	V0-	12
11	White/Green	E+	7
3	Brown/Green	E-	17
15	Inner Shield		15
Case	Outer Shield		Case
D-Sub 9P (F)	Color	Signal	
1	Brown	5V	5
2	White	Hall A	8
3	Gray	Hall B	18
4	Yellow	Hall C	9
5	Green	0V	14
Case	Shield		Case



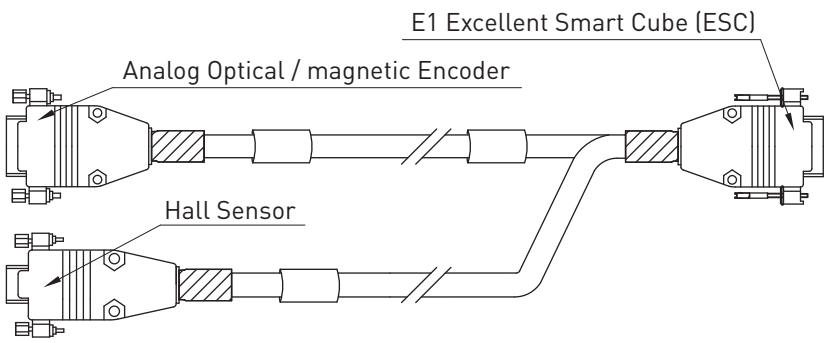
Corresponding Encoder (G,K,V) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E1	HE00EKTDCQ00	HE00EKTDC200	HE00EKTDC400

Pin Assignment			
D-Sub 15P (F)	Color	Signal	(HD) VGA 26Pin (M)
4	White	5V	4
5	Green		5
12	Brown	0V	13
13	Yellow		14
9	Grey	V1+	1
1	Pink	V1-	10
10	Blue	V2+	2
2	Red	V2-	11
3	Black	V0+	3
11	Violet	V0-	12
15	Inner Shield		15
Case	Outer Shield		Case



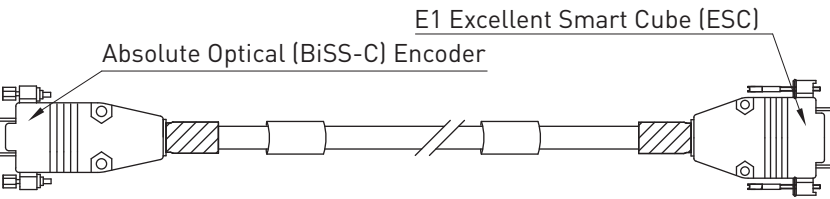
Corresponding Encoder (A,D,H) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E1	HE00EK1DAQ00	HE00EK1DA200	HE00EK1DA400

Pin Assignment			
Housing (F)	Color	Signal	SCSI 20P (M)
4	White	5V	4
5	Green		5
12	Brown	0V	13
13	Yellow		14
9	Grey	V1+	1
1	Pink	V1-	10
10	Blue	V2+	2
2	Red	V2-	11
3	Black	V0+	3
11	Violet	V0-	12
15	Inner Shield		15
Case	Outer Shield		Case
D-Sub 9P (F)	Color	Signal	
1	Brown	5V	5
2	White	Hall U	8
3	Gray	Hall V	18
4	Yellow	Hall W	9
5	Green	0V	14
Case	Shield		Case



Corresponding Encoder (A,D) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E1	HE00EJVDAQ00	HE00EJVDA200	HE00EJVDA400

Pin Assignment			
D-Sub 9Pin (F)	Color	Signal	(HD) VGA 26Pin (M)
4	Brown	5V	4
5	Brown		5
8	White	0V	13
9	Green		14
6	Grey	DATA+	23
7	Pink	DATA-	24
2	Violet	CLK+	7
3	Blue	CLK-	17
Case	Outer Shield		Case



Corresponding Encoder (P,R) Extension Cable Number			
Drive	Cable Length		
	0.4 M	2 M	4 M
E1	HE00EKSDAQ00	HE00EKSDA200	HE00EKSDA400

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Single-Axis Linear Motor Stage Technical Information

Publication Date : March 2019, first edition

May 2024, 5th edition

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