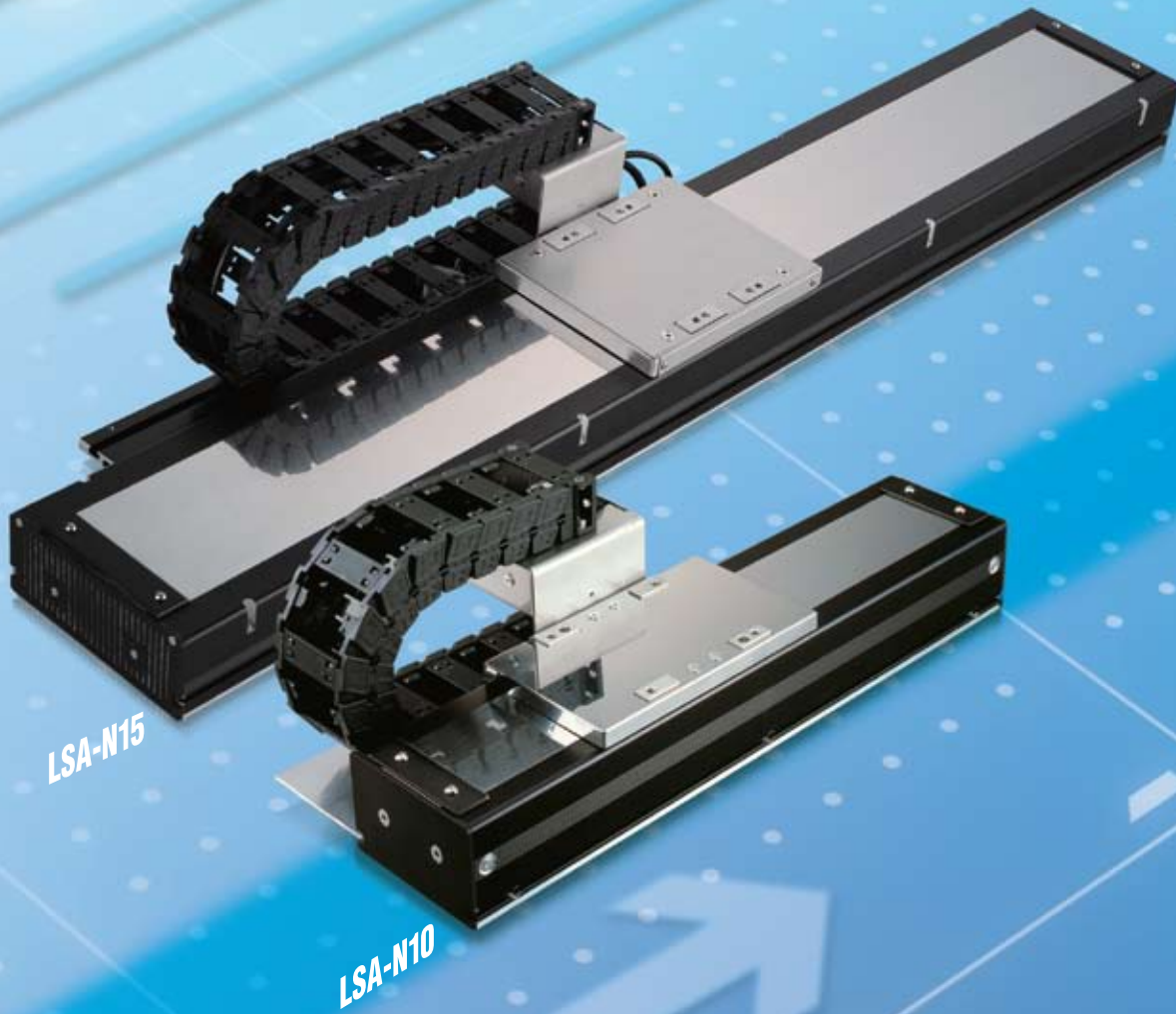


Linear Servo Actuator Mid-Size

# LSA-N10



LSA-N15

LSA-N10

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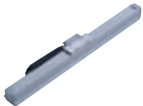
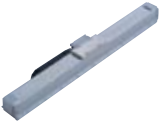
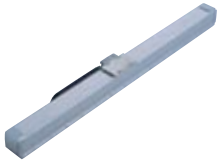
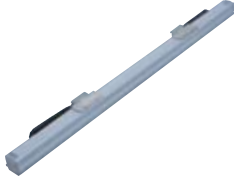
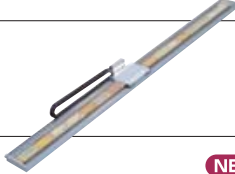

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# List of Linear Servo Actuator Specifications

	Exterior View	Model (Type)	Actuator Width (mm)	Slider		Stroke (mm)	Thrust (N)	Max Load Capacity (kg)	Max Speed (mm/s)	
Shaft Type		S6SS	60	Standard	Single	48~1248	15	3	2500	
		S6SM			Multi	40~1048				
		S8SS	80	Standard	Single	60~1620	25	5		
		S8SM			Multi	60~1440				
		S8HS		High Thrust	Single	60~1620	35	7		
		S8HM			Multi	60~1380				
		S10SS	100	Standard	Single	90~2070	65	15		
		S10SM			Multi	60~1860				
		S10HS		High Thrust	Single	90~2070	80	20		
		S10HM			Multi	105~1815				
	Small Type		H8SS	80	Standard	Single	50~1650	30		5
			H8SM			Multi	130~1430			
H8HS			High Thrust		Single	50~1550	60	8		
H8HM					Multi	130~1230				
Flat Type		L15SS	145	Standard	Single	150~1650	30	5		
		L15SM			Multi	50~1450				
Medium Type		<b>NEW</b> N10SS	100	Standard	Single	100~4100	54	15		
		<b>NEW</b> N10SM			Multi	100~3900				
		N15SS	150	Standard	Single	150~4100	86	20		
		N15SM			Multi	150~3950				
		N15HS		High Thrust	Single	100~4100	125	30		
		N15HM			Multi	150~3850				
		N19SS	193	Standard	Single	144~2592	100	30		
		N19SM			Multi	72~2232				
Large Type		W21SS	210	Standard	Single	1050~4155	200	60		
		W21SM			Multi	730~3835				
		W21HS		High Thrust	Single	895~4000	400	120		
		W21HM			Multi	420~3525				

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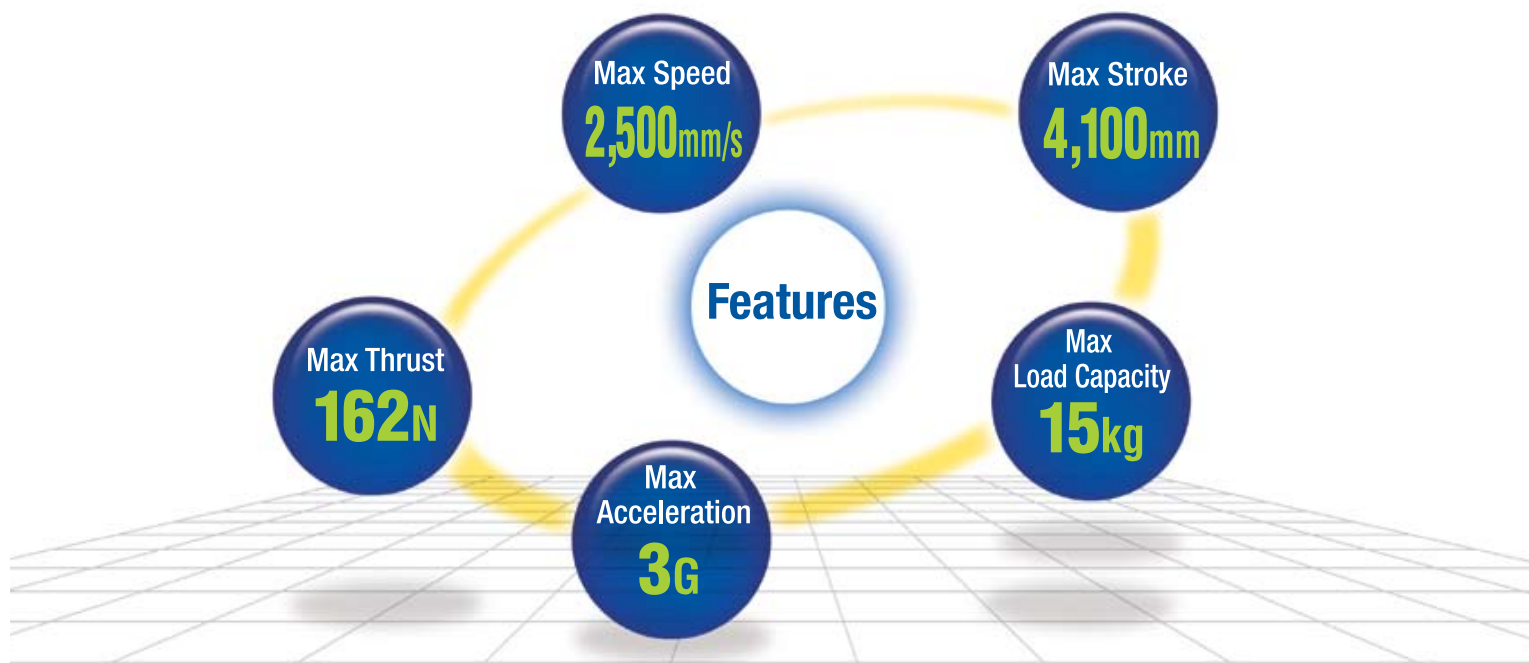
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# New Medium Type Linear Servo Actuator with Flat Core



## Model Designation

Medium Type - Actuator width 100mm - Standard Type

LSA - N10S  - I - 100S -  - T2 -  -

Series

Type

Encoder

Driver Output

Stroke

Applicable Controller

Cable Length

Option

S: Single Slider I: Incremental Encoder  
M: Multi-Slider

100S:100W\*

100:100mm  
4100:4100mm  
(100mm steps)

Note: Up to 3,900mm for multi-sliders

T2:SCON  
SSEL  
XSEL-P/Q

N: None  
S:3m  
M:5m

X: Specified Length

Options Refer to the Option table below

\* Although the controller driver is 100W, the size of the SCON controller is 400W or more.

## Models/Specifications

Model	Applicable Driver Output (W)	Stroke 100mm unit (mm)	Speed (mm/s) (Note 1)	Load Capacity (Note 2)		Rated Thrust (N)	Max Thrust (N)	Max Acceleration (G) (Note 2)
				Horizontal (kg)	Vertical (kg)			
LSA-N10SS-I-100S- <input type="checkbox"/> -T2- <input type="checkbox"/> - <input type="checkbox"/>	100	100~4100	2500	15	-	54	162	3
LSA-N10SM-I-100S- <input type="checkbox"/> -T2- <input type="checkbox"/> - <input type="checkbox"/>		100~3900						

\* In the above model numbers,  indicates the stroke,  indicates the cable length, and  indicates the options.

## Common Specifications

Drive Method	Linear Servo Motor
Positioning Repeatability	±0.005mm
Dynamic Allowable Moment (Note 3)	Ma:76.4N·m Mb:46.3N·m Mc:25.7N·m
Overhand Load Length	340mm max in Ma direction, 340mm max in Mb/Mc directions
Base	Material: Aluminum
Applicable Controller	T2:SCON, SSEL, XSEL-P/Q
Cable Length (Note 4)	N: None S:3m M:5m X <input type="checkbox"/> <input type="checkbox"/> : Specified Length
Surrounding Air Temp	0~40°C, 85%RH (Non-condensing)

## Applicable Controller Specifications

Applicable Controller	Max # of Controlled Axes	Operating Method	Power Supply Voltage
XSEL-P/Q	6 axis	Program	Single/three-phase 200 VAC
SSEL	3 axis	Program/Positioner	Single phase 200 VAC
SCON (Note 5)	1 axis	Pulse Train/Positioner	Single phase 200 VAC

## Options

Name	Model	Remarks
Cable installation direction	CT2~4	Installation directions 2 to 4
User cable track, S Type	US1~US4	Installation directions 1 to 4
User cable track, M Type	UM1~UM4	Installation directions 1 to 4



(Note 1) The maximum speed may not be reached depending on the stroke. (Note 2) The specific value varies according to the operating conditions. (Note 3) When the traveling life is assumed as 10,000 km. (Note 4) The maximum cable length is 20mm for the SCON/SSEL and 30m for the XSEL. Specify a desired length in meters. (Example: X08 = 8m) (Note 5) With the SCON, the frame size must be equal to or larger than that of the 400W specification.

\* This actuator cannot be installed horizontally on its side or installed vertically.

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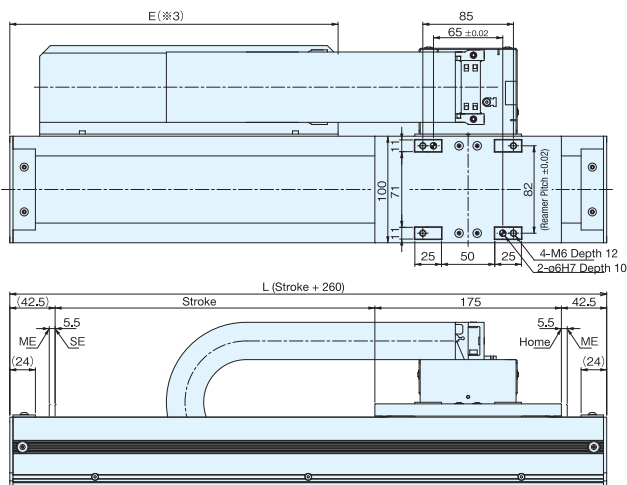
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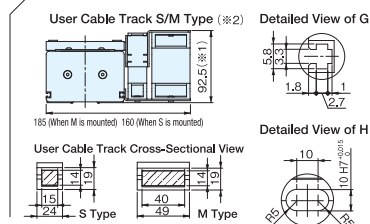
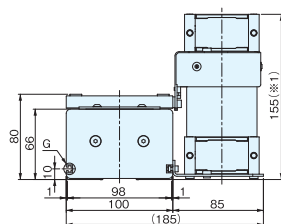
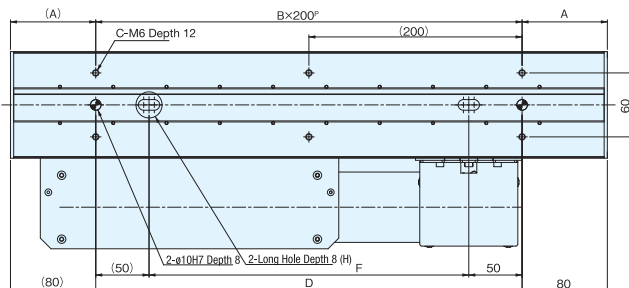
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# Dimensions

## LSA-N10SS



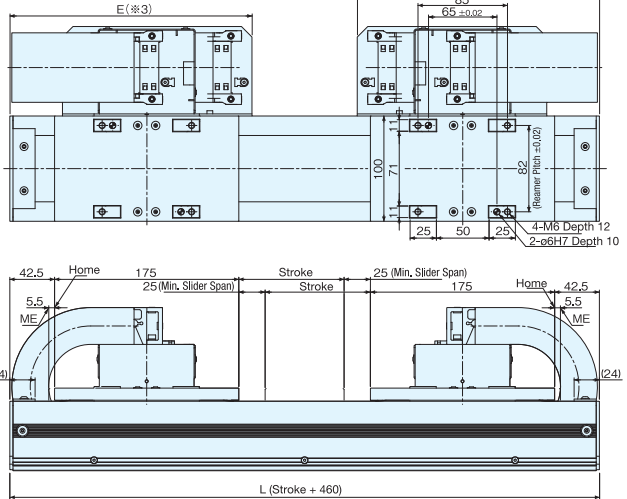
SE: Stroke End  
ME: Mechanical End



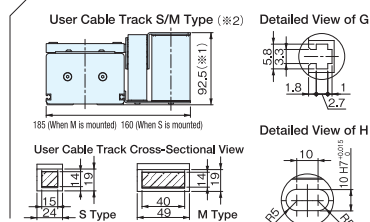
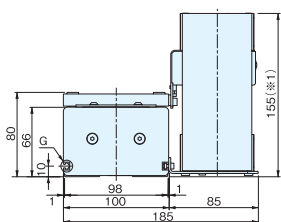
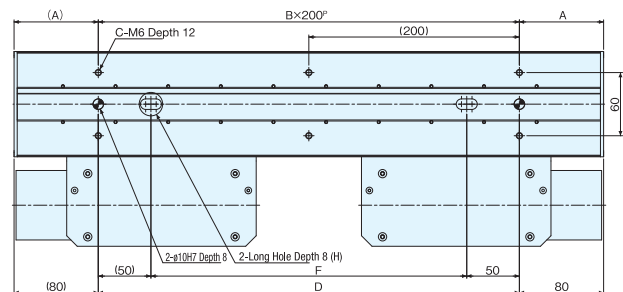
Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100		
L	360	460	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860	2960	3060	3160	3260	3360	3460	3560	3660	3760	3860	3960	4060	4160	4260	4360		
A	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80
B	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	21	
C	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	44	
D	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200		
E	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230		
F	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100		
Mass(kg)	8.0	9.1	10.2	11.3	12.3	13.4	14.5	15.6	16.7	17.8	18.9	19.9	21.0	22.1	23.2	24.3	25.4	26.5	27.5	28.6	29.7	30.8	31.9	33.0	34.1	35.1	36.2	37.3	38.4	39.5	40.6	41.7	42.8	43.8	44.9	46.0	47.1	48.2	49.3	50.4	51.4		

(※1) The cable track may bulge to a size slightly larger than the above dimensions. (※2) A user cable track can be used only when the stroke is 2,000mm or less.  
(※3) If an optional or user cable track is used, dimension E is adjusted to "80 mm less than the applicable dimension in the table."

## LSA-N10SM



ME: Mechanical End



Stroke	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900		
L	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860	2960	3060	3160	3260	3360	3460	3560	3660	3760	3860	3960	4060	4160	4260	4360		
A	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80	30	80
B	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	21	
C	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	44	
D	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200		
E	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230		
F	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100		
Mass(kg)	14.7	15.9	17.1	18.2	19.4	20.6	21.8	23.0	24.2	25.4	26.6	27.8	28.9	30.1	31.3	32.5	33.7	34.9	36.1	37.3	38.5	39.7	40.8	42.0	43.2	44.4	45.6	46.8	48.0	49.2	50.3	51.6	52.7	53.9	55.1	56.3	57.5	58.7	59.8		

(※1) The cable track may bulge to a size slightly larger than the above dimensions. (※2) A user cable track can be used only when the stroke is 2,000mm or less.  
(※3) If an optional or user cable track is used, dimension E is adjusted to "80 mm less than the applicable dimension in the table."