

SANMOTION

Linear servo motor

Center magnet type

with Core



Dual magnet type

with Core



Features

No magnetic attraction force affect on devices

A first in the industry center magnet structure linear servo motor has been developed. Magnetic attraction forces are canceled out within the motor structure, simplifying the device mechanism.

Industry-leading acceleration

Both types feature industry-leading acceleration of 25 G^* . It enables fast driving of devices, contributing to shorter device takt time and productivity improvement.

Large thrust with compact design

The center magnet type is 30% smaller, and the dual magnet type is 12% smaller than our conventional model^{*2}. Moreover, the thrust densities of the center magnet type and the dual magnet type are 42% and 13% greater, respectively, compared with the same conventional model^{*2}—which is the top in the industry^{*1}.

*1: Information based on our own research as of April 25, 2016, collected among core type linear servo products with similar shapes.

*2: Our conventional linear servo model: Dual magnet core type (model no.: DD045CB4AN)

Application

Semiconductor manufacturing equipment, LCD manufacturing equipment, chip mounters, wire bonders, conveyors.

Model no.

Center magnet type : DT

Coil	DT	030	C	D1	A	N	E	A	1	00
	Type DT: Center magnet type	Magnet rail width 030: 30 mm	Coil	Coil length D1: 145 mm	Input voltage A: 200 VAC	Winding specifications N: Standard winding	Hall sensor specifications A: Without Hall sensor E: With Hall sensor	Thermal specifications A: None	Cable length 1: 300 mm 2: 600 mm	Specification identifier 00: Standard
Magnet rail	DT	030	M	512	B	00				
	Type DT: Center magnet type	Magnet rail width 030: 30 mm	Magnet rail	Magnet rail length 128: 128 mm 256: 256 mm 512: 512 mm	Magnet cover A: Without cover B: With cover	Specification identifier 00: Standard				

Dual magnet type : DD

Coil	DD	035	C	C2	A	N	E	A	1	00
	Type DD: Dual magnet type	Magnet rail width 035: 35 mm	Coil	Coil length C2: 253 mm	Input voltage A: 200 VAC	Winding specifications N: Standard winding	Hall sensor specifications A: Without Hall sensor E: With Hall sensor	Thermal specifications A: None	Cable length 1: 300 mm 2: 600 mm	Specification identifier 00: Standard
Magnet rail	DD	035	M	B512	B	00				
	Type DD: Dual magnet type	Magnet rail width 035: 35 mm	Magnet rail	Magnet rail length B064: 64 mm B128: 128 mm B256: 256 mm B512: 512 mm	Magnet cover A: Without cover B: With cover	Specification identifier 00: Standard				

Unit: mm

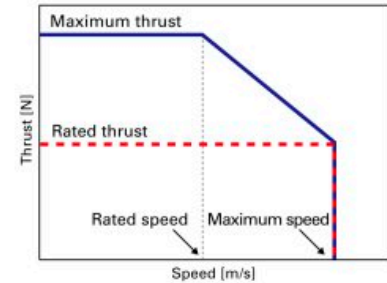
Dual magnet type linear servo motor with Core

Specifications

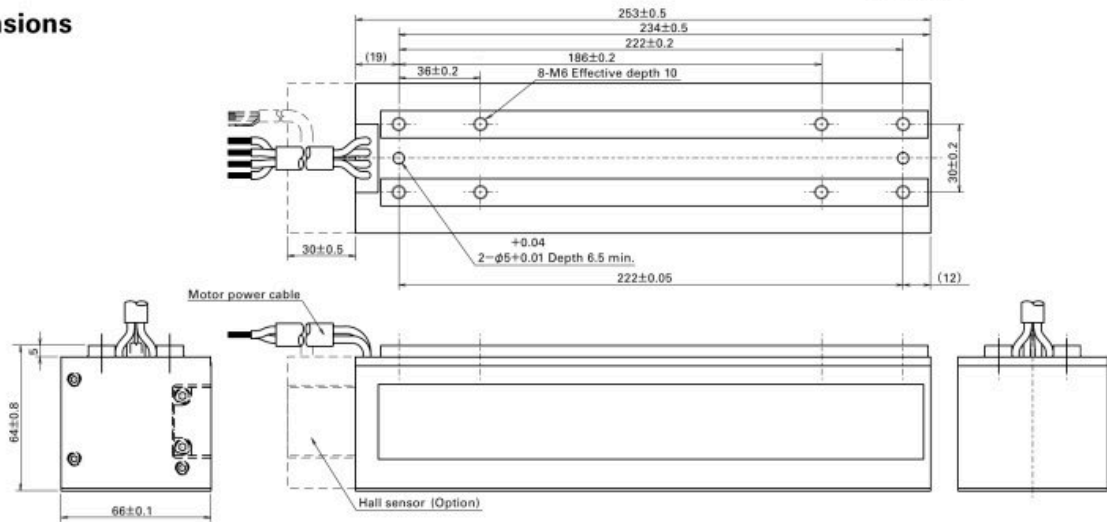
Coil model no.	Rated thrust [N]	Maximum thrust [N]	Rated speed [m/s]	Maximum speed [m/s]	Magnetic attraction force [N]	Coil mass [kg]	Compatible magnet rail model no.	Compatible servo amplifier model no.
DD035CC2AN	610	1400	2.0	3.0	0	5.0	DD035MB □□□□	RS2A10L RS3A07L

Magnet rail model no.		Magnet rail mass (two rails totaled) [kg]	Size			
			L1	L2	N1	N2
DD035M	B064	0.9	64	32	2	1
	B128	1.9	128	96	4	3
	B256	3.7	256	224	8	7
	B512	7.5	512	480	16	15

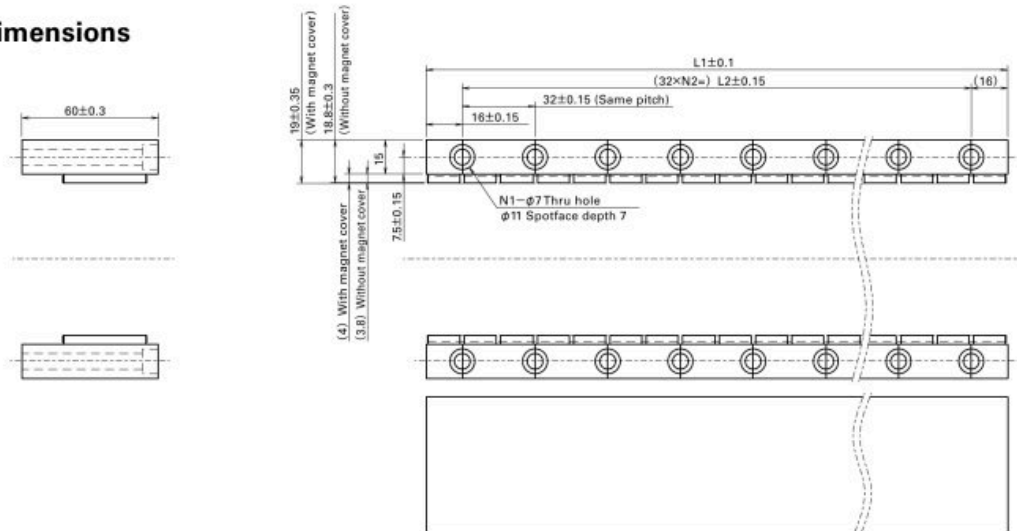
Thrust-Speed characteristics



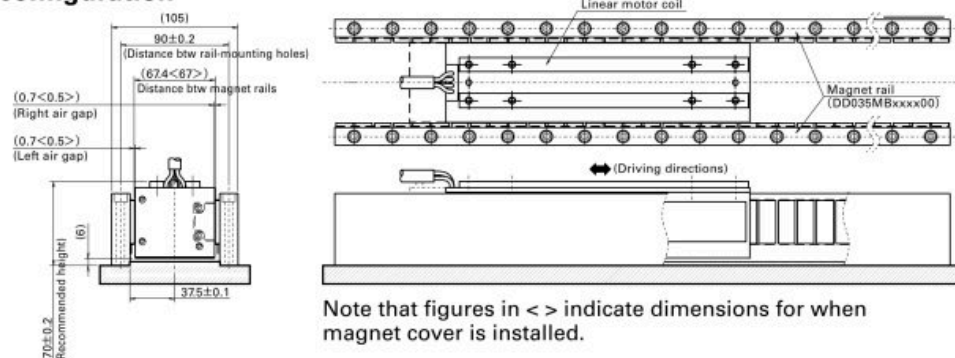
Coil dimensions



Magnet rail dimensions



Recommended configuration



Note that figures in < > indicate dimensions for when magnet cover is installed.

Unit: mm

■ Compatible servo amplifier

Can be combined with our SANMOTION R servo amplifiers

Center magnet type

Model no.	RS2A03L	RS3A03L
Servo amplifier capacity	30 A	30 A
Input voltage	200 to 230 VAC	

Dual magnet type

Model no.	RS2A10L	RS3A07L
Servo amplifier capacity	100 A	75 A
Input voltage	200 to 230 VAC	



■ Precautions For Adoption

⚠ Cautions

Failure to follow the precautions on the right may cause moderate injury and property damage, or in some circumstances, could lead to a serious accident. Always follow all listed precautions.

⚠ Cautions

- Read the accompanying Instruction Manual carefully prior to using the product.
- If applying to medical devices and other equipment affecting people's lives, please contact us beforehand and take appropriate safety measures.
- If applying to equipment that can have significant effects on society and the general public, please contact us beforehand.
- Do not use this product in an environment where vibration is present, such as in a moving vehicle or shipping vessel.
- Do not perform any retrofitting, re-engineering, or modification to this equipment.
- The products presented in this catalog are meant to be used for general industrial applications. If using for special applications related to aviation and space, nuclear power, electric power, submarine repeaters, etc., please contact us beforehand.

*For any question or inquiry regarding the above, contact our Sales Department.

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