

Linear Motor Realizing High Speed and High Precision Feed

FANUC

LINEAR MOTOR *LiS*-B series



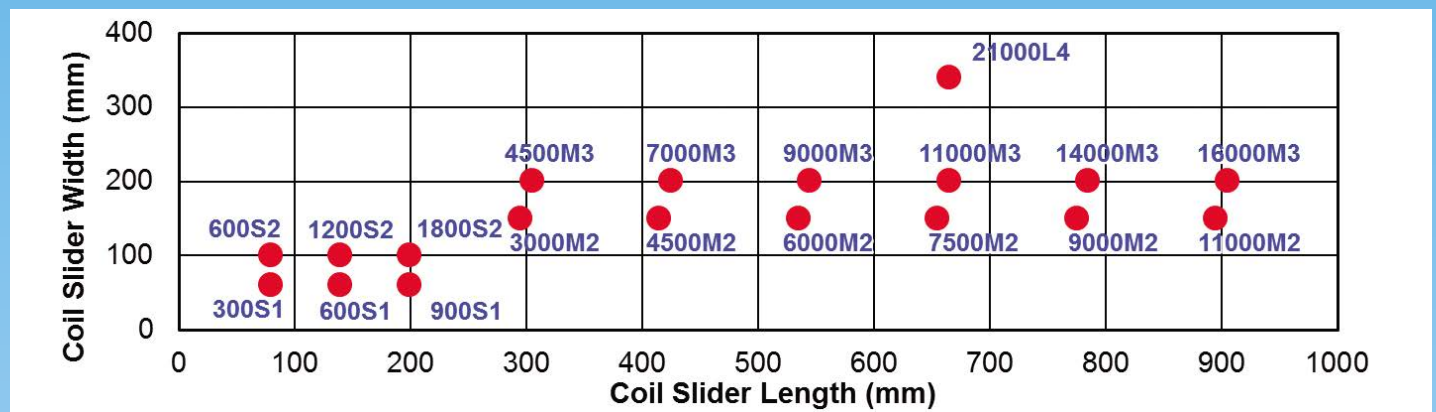
Linear Motor Realizing High Speed and High Precision Feed

FANUC LINEAR MOTOR LIS-B series

Features

FANUC LINEAR MOTOR LIS-B series, without deforming elements such as ball screw, or without wearing parts in mechanical structure, realizes high gain due to high rigidity of servo system, higher precision and maintenance free in mechanism. Additionally, rigid long stroke axis and increase of thrust force and multi-head configuration by arranging multiple coil sliders on single magnet track are easily available.

Wide Line-up



FANUC LINEAR MOTOR LIS-B series has a wide range of line-up with 19 models from 300N to 21000N max. force. 400V drive is available for all models.

High Speed and High Acceleration

Realizing maximum speed of 4m/s and maximum acceleration of over 30G, which is difficult to be realized by using rotary motor.

High Accuracy

Cooling tube embedded near to coil winding of heat source carries out heat efficiently. This cooling structure minimizes effect of heat transmission from motor to machine, which results in higher accuracy of machine. LIS-B series has realized further reduction of heat generation.

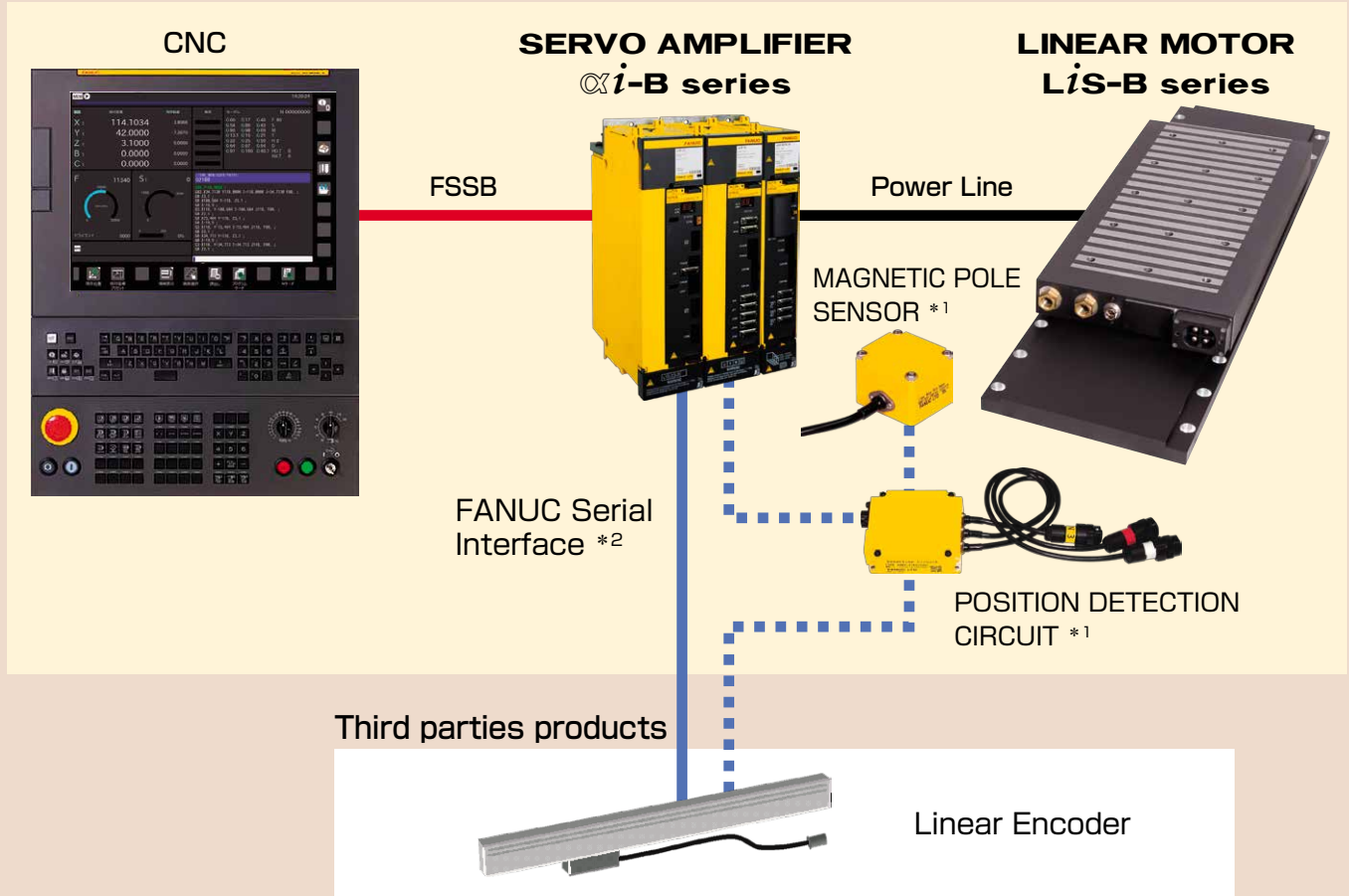
Additionally, original position detection circuit by treating signal from linear encoder, realizes detection system of 0.001 μm resolution up to 4m/s speed. And latest digital servo control technology such as SERVO HRV⁺ Control, enables smooth and high accuracy feed up to high speed.

Conforms to EMC Directive

FANUC LINEAR MOTOR LIS-B series conforms to EMC directive, so CE mark of the system will be easily acquired.

System Configuration

FANUC's products

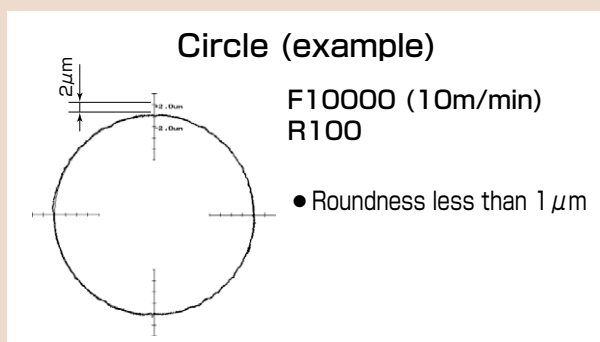


- In case of an absolute linear encoder
- - - - - In case of an incremental linear encoder

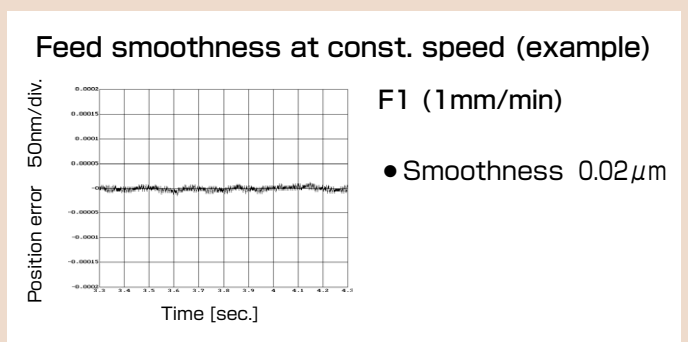
- *1 Not necessary for absolute type linear encoder
- *2 Necessary to conform to FANUC Serial Interface

Sample data*

High accuracy even at high speed



Smooth feed



*Feedback data from linear encoder

Service & Support

Excellent Maintenance Services

FANUC service team delivers customer trust and confidence based on direction of service “Maximizing Uptime”, “Global Service” and “Lifetime maintenance”.

Service First

Conforming to the spirit of “Service First”, FANUC provides lifetime maintenance to its products for as long as they are used by customers, through more than 260 service locations supporting more than 100 countries and regions throughout the world.

Maximizing Uptime



FANUC ACADEMY

FANUC ACADEMY operates versatile training courses to develop skilled engineers effectively in several days.



FANUC CORPORATION

•Headquarters 3580, Shibokusa, Oshino-mura,
Minamitsuru-gun Yamanashi, 401-0597, JAPAN
Phone: (+81)555-84-5555 <https://www.fanuc.co.jp/>

•Overseas Affiliated Companies

FANUC America Corporation	Phone: (+1)248-377-7000	https://www.fanucamerica.com/
FANUC Europe Corporation, S.A.	Phone: (+352)727777-1	https://www.fanuc.eu/
BEIJING-FANUC Mechatronics CO., LTD	Phone: (+86)10-6298-4726	http://www.bj-fanuc.com.cn/
KOREA FANUC CORPORATION	Phone: (+82)55-278-1200	https://www.fkc.co.kr/
TAIWAN FANUC CORPORATION	Phone: (+886)4-2359-0522	https://www.fanuctaiwan.com.tw/
FANUC INDIA PRIVATE LIMITED	Phone: (+91)80-2852-0057	https://www.fanucindia.com/

• All specifications are subject to change without notice.
• No part of this catalog may be reproduced in any form.
• The products in this catalog are controlled based on Japan's "Foreign Exchange and Foreign Trade Law". The export from Japan may be subject to an export license by the government of Japan. Further, re-export to another country may be subject to the license of the government of the country from where the product is re-exported. Furthermore, the product may also be controlled by re-export regulations of the United States government. Should you wish to export or re-export these products, please contact FANUC for advice.

© FANUC CORPORATION, 2008

LinearLIS(E)-15c, 2023.5, Printed in Japan