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

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 0.001μm 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.
Realizing maximum speed of 4m/s and maximum acceleration of over 30G, which is difficult to be realized by using rotary motor.

**FANUC LINEAR MOTOR L**

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.

**Features**

- **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. FANUC LiS-B series has realized further reduction of heat generation.
- **Original position detection circuit** by treating signal from linear encoder, realizes detection system of 0.001μm 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.

**System Configuration**

**FANUC's products**

**CNC**

**SERVO AMPLIFIER**

**LINEAR MOTOR**

**LiS-B series**

- **FSSB**
- **MAGNETIC POLE SENSOR**
- **POSITION DETECTION CIRCUIT**

**Third parties products**

- **Linear Encoder**

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**Sample data**

**High accuracy even at high speed**

*Circle (example)*

F10000 (10m/min)  
R100  
- Roundness less than 1μm

**Smooth feed**

*Feed smoothness at const. speed (example)*

F1 (1mm/min)  
- Smoothness 0.02μm

*Feedback data from linear encoder*
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