

MAGNETIC FLUID

– for **LINEAR VIBRATION MOTOR**

Advantages of linear vibration motor using magnetic fluid

- Fast response time. •Very small / ultra light. •Low power consumption. •Long life.
- Implementation of various vibration patterns.

Correlation between Motor and Ferrofluid

Better Vibration force	Gauss ↓	viscosity ↓
Better Damping force	Gauss ↑	viscosity ↑
To prevent dispersion	Gauss ↑	viscosity ↓
Enhance Low-temperature	Pour point ↓	viscosity ↓

• **Vibration force**

The force of 'Moving mass' moves vertical and vibration

• **Damping force**

The force preventing 'Moving mass' against the motor cover.

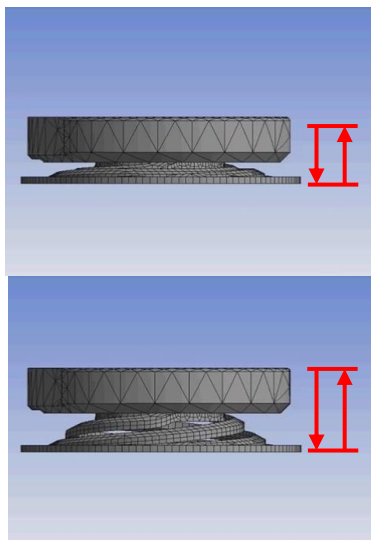
We called Touch(Noise) as bump and make snap.

• **Dispersion**

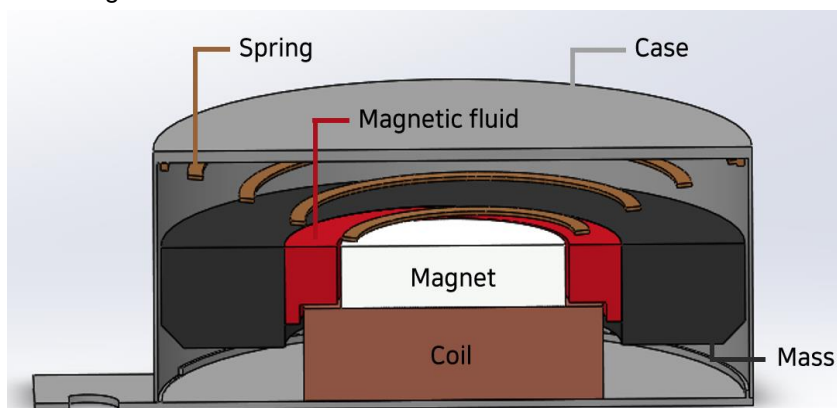
Scattering magnetic fluid by vibration

Up and down vibration motion

↓Click on the picture below to see the video. (moved to a YouTube link.)



A general structure of linear vibration motors



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● specification

Saturation Magnetization	Viscosity	Flash point	Pour point
	*Viscometer(at 27C°) : Spindle Viscometer(BROOKFIELD)		
Gauss	cp	°C	°C
300	80	200	-50
300	4,000	220	-40
300	8,000	220	-40

Saturation Magnetization	Viscosity	Flash point	Pour point
	*Viscometer(at 27C°) : Spindle Viscometer(Rotational Rheometer)		
Gauss	cp	°C	°C
300	2,300	280	-30
300	3,500	310	-12.5
300	7,000	300	-24
400	4,150	280	-30
400	7,000	310	-12.5
400	11,500	300	-24

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Address : #403 Technology advancement dong, Gyeonggi Technopark, 705 Haeon-ro,
Sangnok-gu, Ansan-Si, Gyeonggi-do, Republic of Korea
Post code : 15588

TEL : 031-500-4633, 031-400-3757 / FAX : 031-500-4631

Mail : magron@magron.co.kr

Web site (korean) : www.magron.co.kr

Web site (English) : www.ferrozone.co.kr

You can make an order with the specifications you want.

We constantly develop and release new products.

Please contact us.

