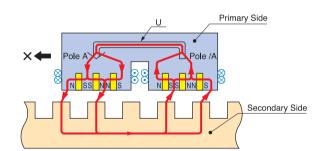
HD Motor Linear Type

Capable of heavy load high-precision transportation with strong thrust motor.

■Operation

• Magnet Circuit of the HD Motor Linear Type

Unique magnetic circuit with embedded high performance permanent magnet offers strong magnetic flux and creates higher thrust than other linear motors.



Notable Thrust

■Features

Standard lineup generates thrust up to 1700N.

Low Heat Generation

Continuous high thrust output enables low heat generation. High frequency operation maintained without anxiety.

Compact in size

Compact size comes from the high thrust per unit area.

High Precision

Optical encoder utilizes high precision positioning.

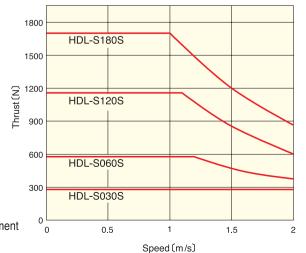
Magnet-less Stator

Unique magnetic circuit removes permanent magnets from the stator side. (See P.2 Structure Comparison)

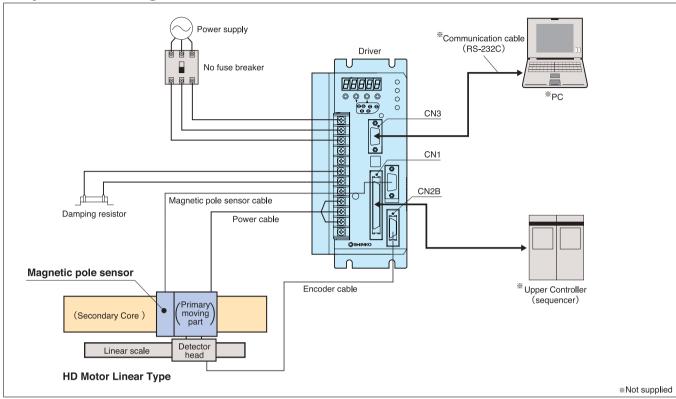
■Applications

- ●Placement of large and heavy loads—FPD manufacturing equipment
- ●High precision positioning Semiconductor manufacturing equipment
- High frequency operation ——— Chip mount, bonder, etc.

■Characteristics



■System configuration



■Comparing Structure

Name	HD Motor Linear Type	PM Linear motor	Coreless Linear Motor
Structural Drawing	The control of the co		
Movable Unit	Slit form permanent magnets are placed in the space where the laminated core forms, and it equips the winding.	Laminated core is equipped with the winding.	Without a core, the winding is molded by plastics.
Stator	Blocks of laminated core are lined up, and the grooves are molded with plastics.	On the plate, the plate form permanent magnet is arranged by the number of strokes.	On the plate, the plate form permanent magnet is arranged by the number of strokes and two plates are arranged facing each other.
Permanent Magnet	Not Exposed	Exposed	Exposed

