

Copy Machine

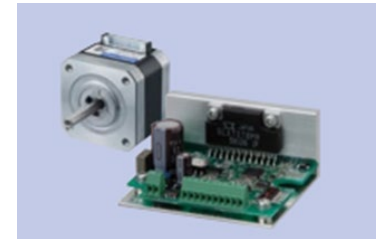
Description

Multi-purpose PPC “plain paper copiers” are one of the most popular types of **copy machine**. They are widely used and located in places like offices and convenience stores. Most of them are equipped with scan, fax and other communication functions.

Structure:

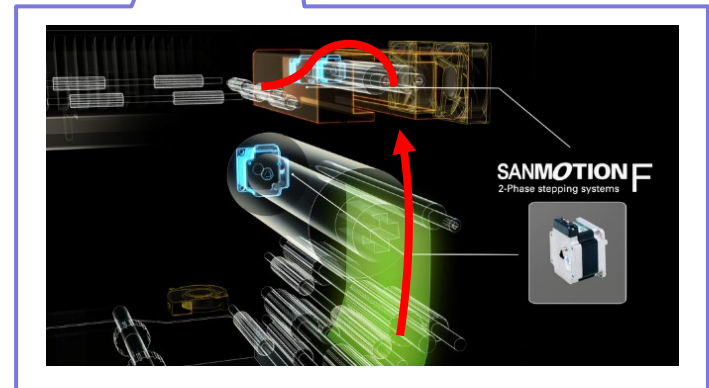
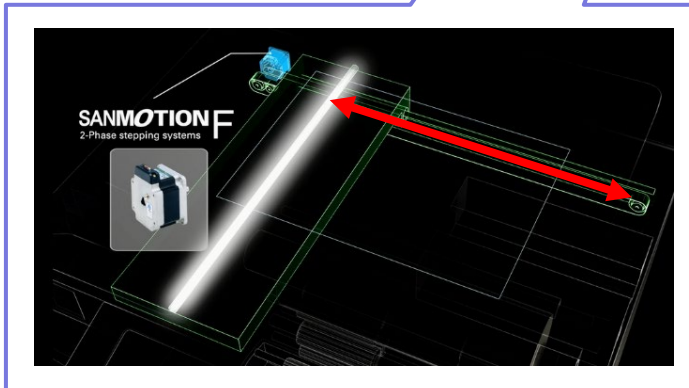
Scanner drive axis,
Paper feeding, transport axis

SANYO DENKI
SANMOTION F2
2-PHASE STEPPING SYSTEMS



Scanner drive axis

Paper feeding, transport axis



SANYO DENKI Proposal

Motor	Motor details	Driver
SANMOTION F2 2-Phase stepping motor	42, 56 mm sq. ※Mounting side damper and heat sink are frequently used to reduce vibration and suppress temperature rise.	DC Driver

Features

■ 2-Phase stepping motor + driver

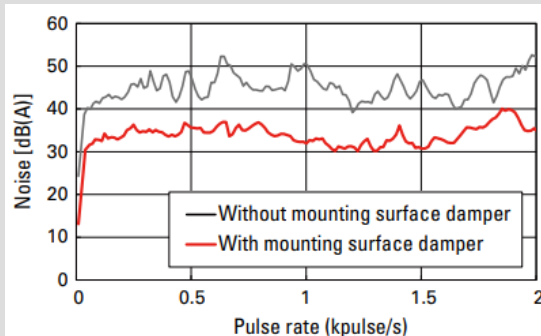
■ Wide variety of products

- Motor sizes range from 14 mm sq. to 106 mm diameter.
- Unipolar drive and bipolar drive are available.

■ Low vibration and low heat

- Low vibration mode makes smooth motions possible even under coarse resolution settings such as 1-division (full step) and 2-division (half step).
- Micro step drive with resolution setting up to 16 divisions can be used, enabling smooth equipment operation with low vibration.
- Options such as mounting side damper (suppress vibration of the motor with rubber and reduce transmission of vibration to the equipment) and heat sink could be used together with the motor.

Mounting side damper



Heat Sink



- Vibration and heat can be reduced by customizing motor winding and speed range to satisfy equipment requirement.

Merits

■ Ideal solution for customer

- Customers could select the ideal motor with the required torque and size that suits their unique equipment requirements, from the wide variety of motors we provide.

■ Higher equipment performance

- Low heat
To avoid deterioration of copier toner caused by motor heat.
- Low vibration and low noise
To avoid printing problems caused by vibration. Besides, it could be used in close proximity to people such as offices and shops without noise issues.

※Customers could further improve machine accuracy and reduce vibration by using 5-Phase stepping system.

- Basic angle (0.72°) is smaller than 2-Phase with lower vibration
- Micro step drive can be set to a resolution of up to 250 divisions.
- Low vibration mode function provides smooth driving, even with coarse resolution settings.

