



日本电产有限公司

Nidec corporation

General Application Motor &
Solutions Business Unit





日本电产有限公司

1. Company overview



Company profile

- Company: NIDEC CORPORATION
- Founder: Shigenobu Nagamori
(Chairman of the Board, President & CEO)
- Established: July 23, 1973

- Paid-in capital: JPY87.8 billion
- Stock listings:
First section, the Tokyo Stock Exchange
First section, the Osaka Securities Exchange
- Consolidated revenue: JPY1.18 trillion (as of March 31, 2016)

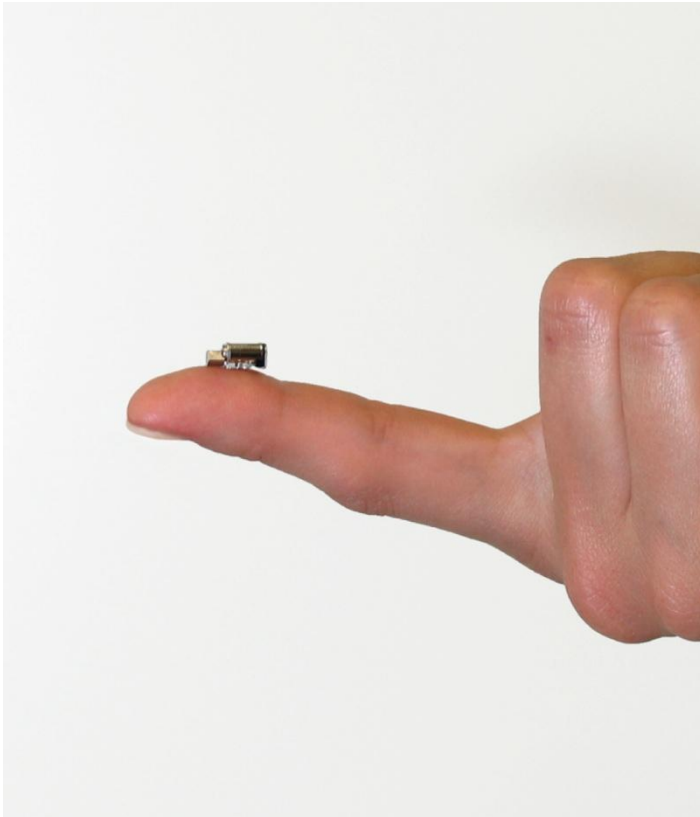
- Nidec Group companies: Over 230 worldwide
- Nidec Group employees: Over 105,000 worldwide
- Main products:
 - Small precision motors
 - General motors and machinery
 - Electronic and optical components, etc.
- Headquarters: Kyoto, Japan





Over 230 companies in
more than 30 countries

We offer motors of all kinds:
from micro to super-large ones.



➤ Miniature vibration motor

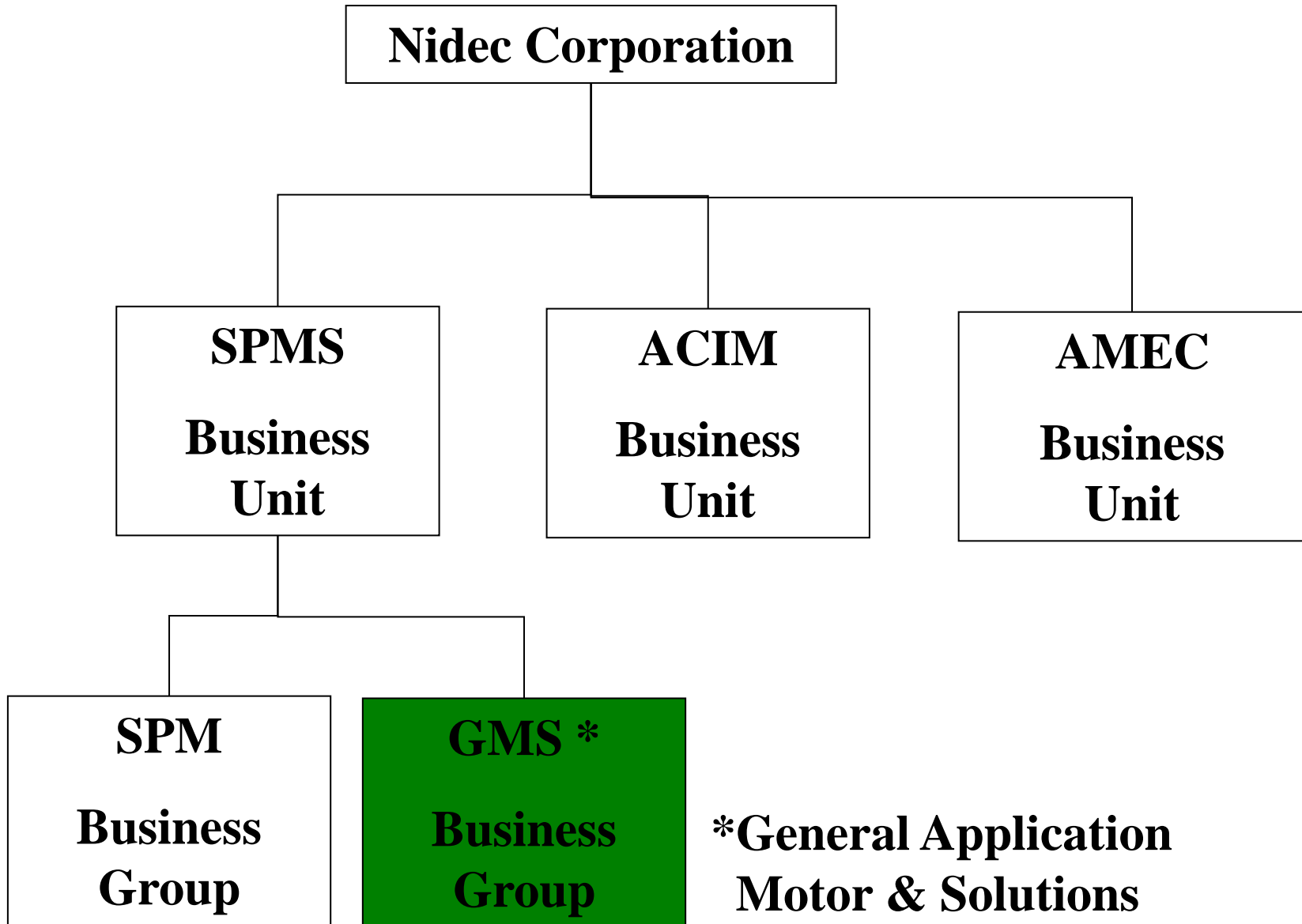


➤ Pump motor

Power output ranges from the 0.2W - 45MW (45,000,000W)! ^{4/19}

2.About General Application Motor & Solutions Business Group

Nidec Business Unit Structure



We produce “energy saving, long life, low noise” brush-less DC motors for every possible field and use.

General Application Motor & Solutions Business group(GMS) produces FAN motors and various brush-less DC motors for audio visual, IT , office automation, telecommunication, home appliance, environmental, and industry devices.

We have a variety of line-ups whose characteristics are energy saving, long life, and low noise. Based on customers’ demand, we’ll promptly proceed to customize.

We establish new use of motors and develop new products in order to fill the customers’ demand.



Quietness and High Performance Earn Reliability



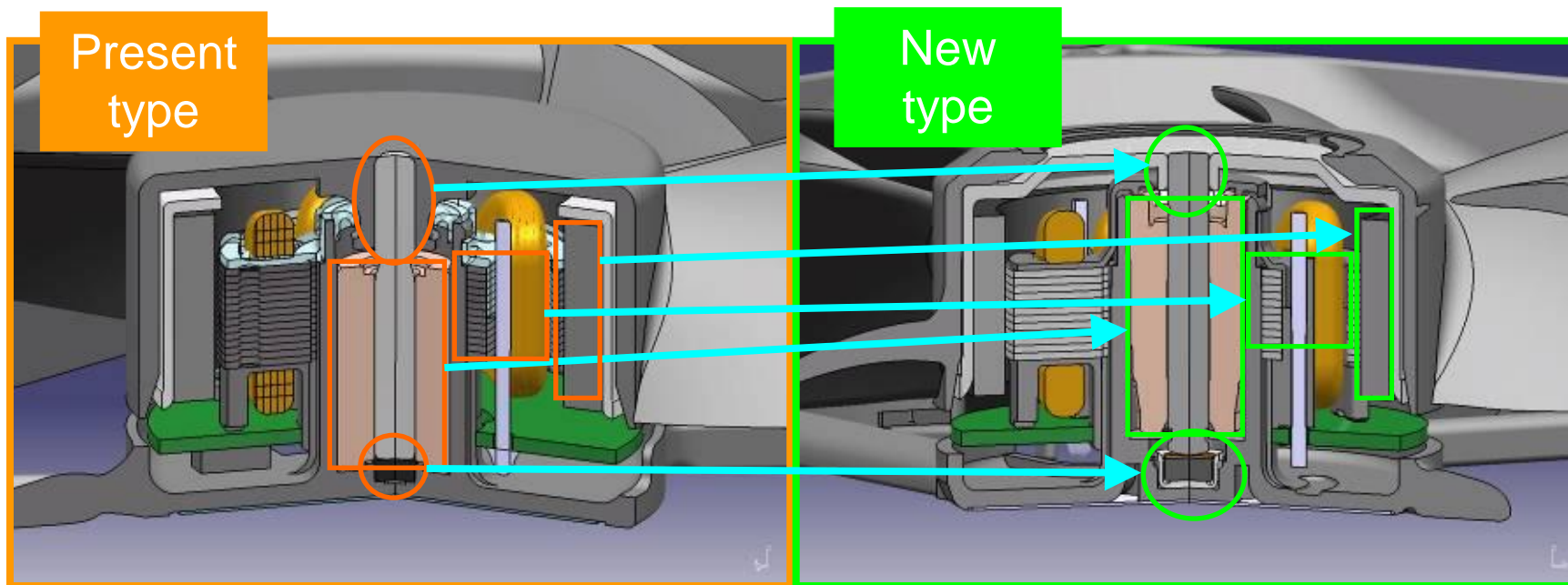
UltraFlo

Custom

**From Standard to Custom products for
all kinds of applications**

UltraFlo

New technology enhanced the fan's performance in the newly developed product.



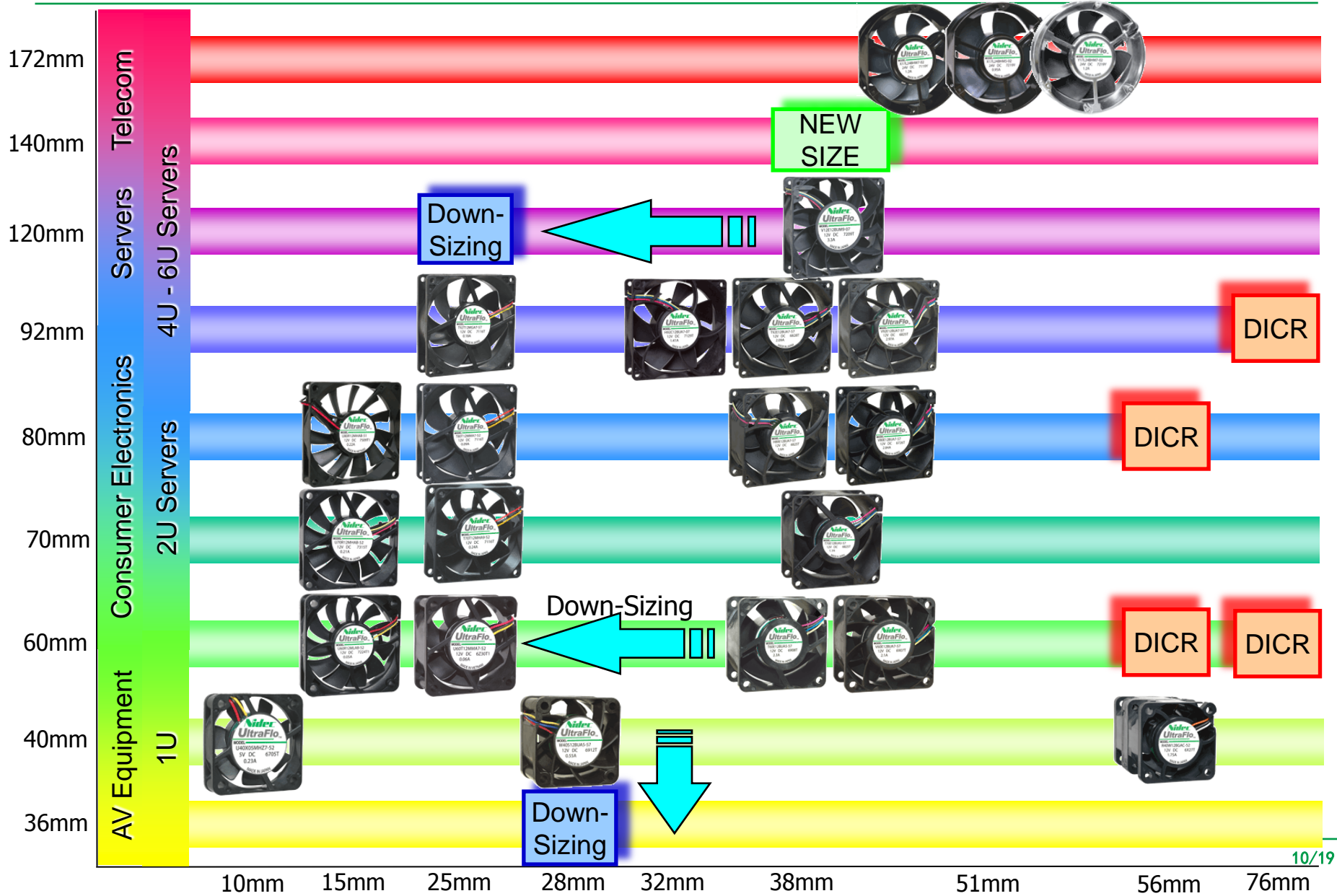
Low vibration & noise

- ◆ Shaft conclusion structure
- ◆ New stator core for low cogging
- ◆ The magnetic attracting structure with a chip magnet

High reliability

- ◆ Vaporization-resistance oil is used to reduce oil loss(by20%)
- ◆ The size of sleeve bearing has enlarged, accommodating more oil

DC Fan Motor Line-up



Inner Rotor Type Brushless DC Motor



CMC Compact Motor Concept

The models have been developed as the general-purpose lines of small brushless DC motors with **built-in drive circuits**. Nidec brushless motors are poised to explore into various high-end market that normally set high quality criteria for durability, credibility and performance levels.

CMC motor has 4 series, 13H/22H/24H/27H

Advantages

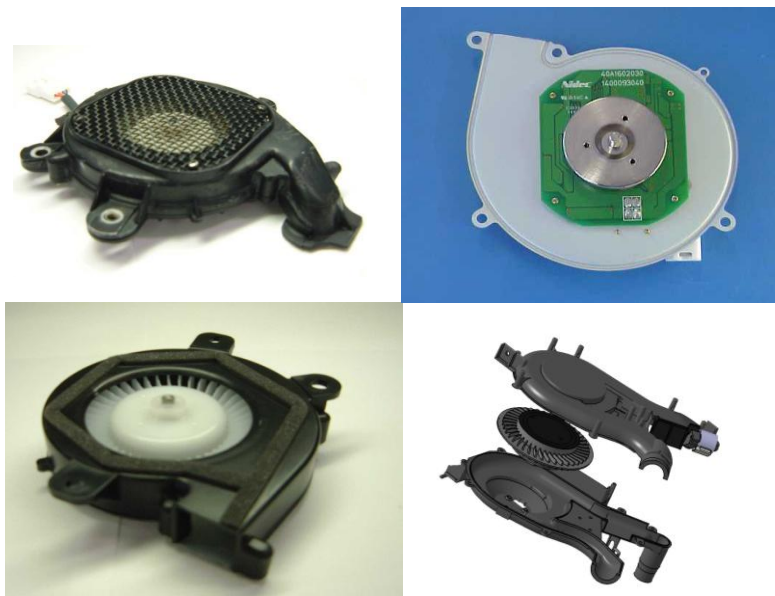
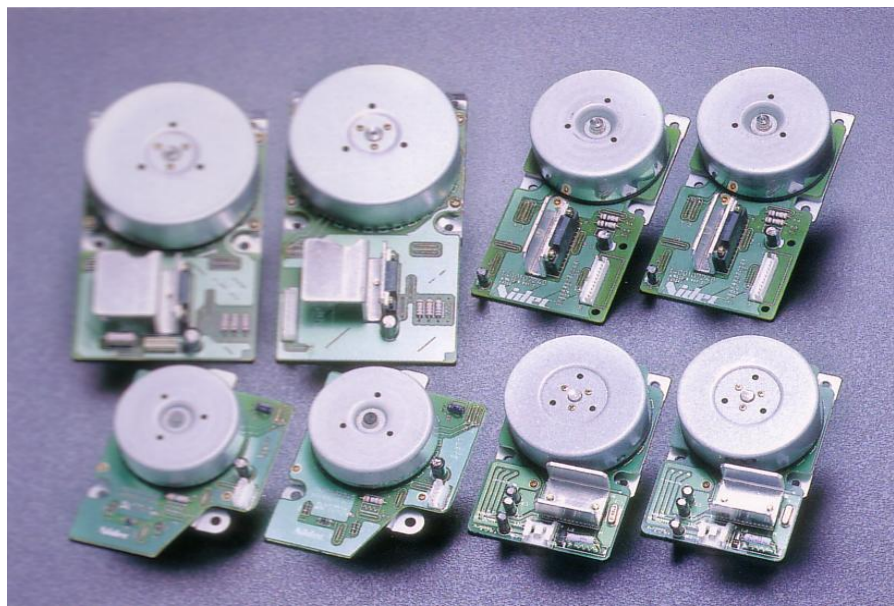
Built-in Drive Circuit

- ◆ Longer Life time
- ◆ Run at high speed
- ◆ Low vibration & low noise
- ◆ Variety of Control/Signal Options

Series	Size (mm)	Power (W)
13H	φ24.2 x 19.1	~3W
22H	φ35.6 x 40.0	~8W
27H	φ49.0 x 31.5	~12W
24H	φ42.0 x 34.0	~10W

CMC motors are used in many applications because of their many advantages. 11/19

Outer Rotor Type Brushless DC Motor



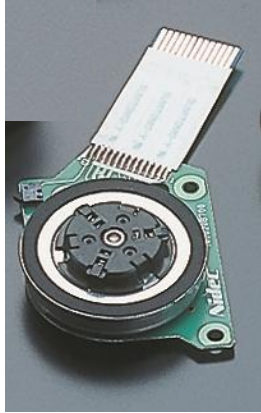
Advantages

- ◆ **Miniaturization** by a thin flat motor
- ◆ **Low noise** and **high efficiency**
- ◆ **High power** by the outer rotor
- ◆ **Highly accurate** rotational speed control

10W~50W output

Office Equipment
Household appliance
Automotive

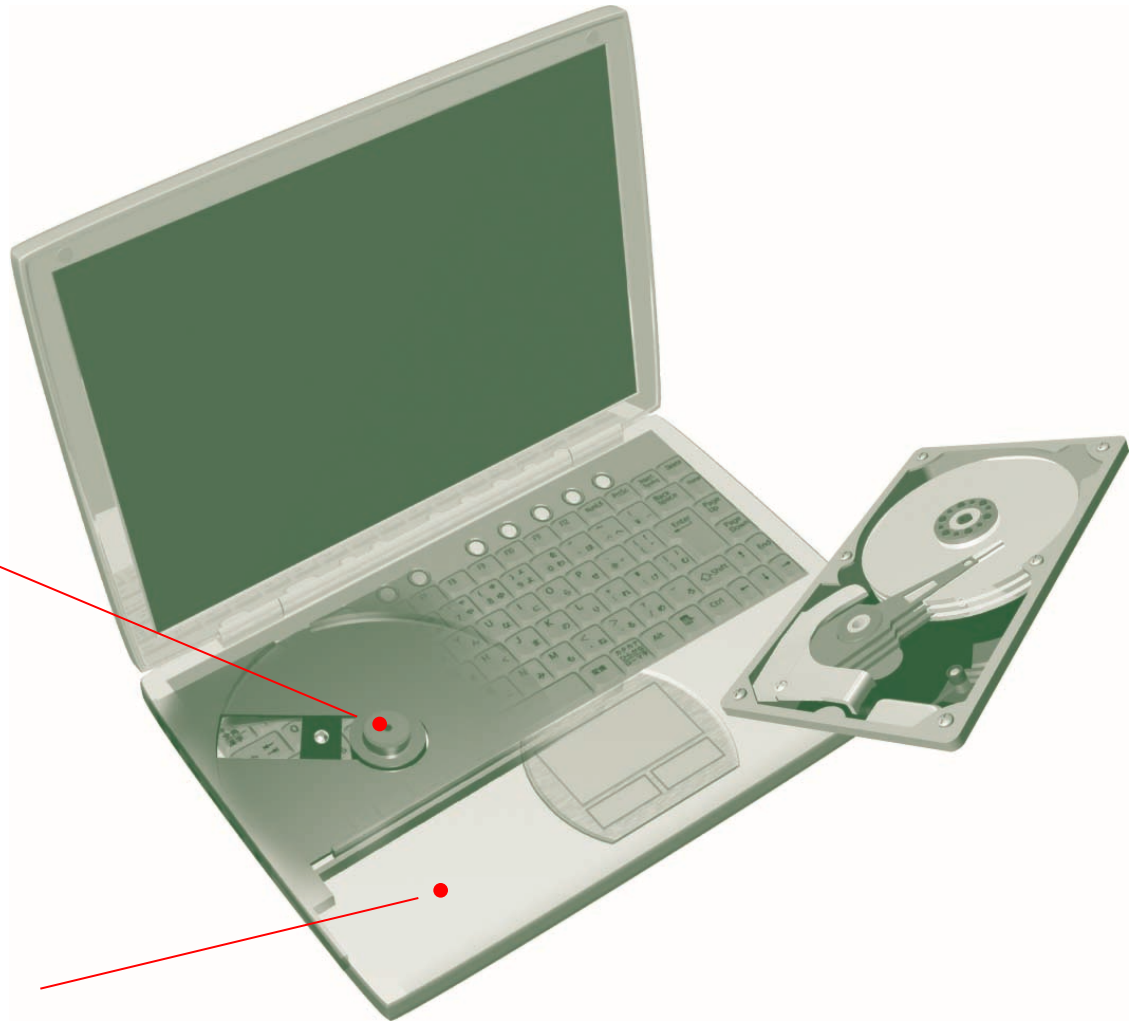
Example of Utilization



Optical disk drive motor



Fan



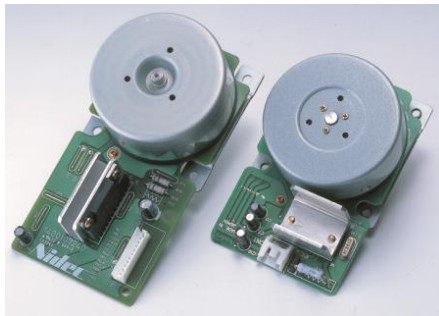
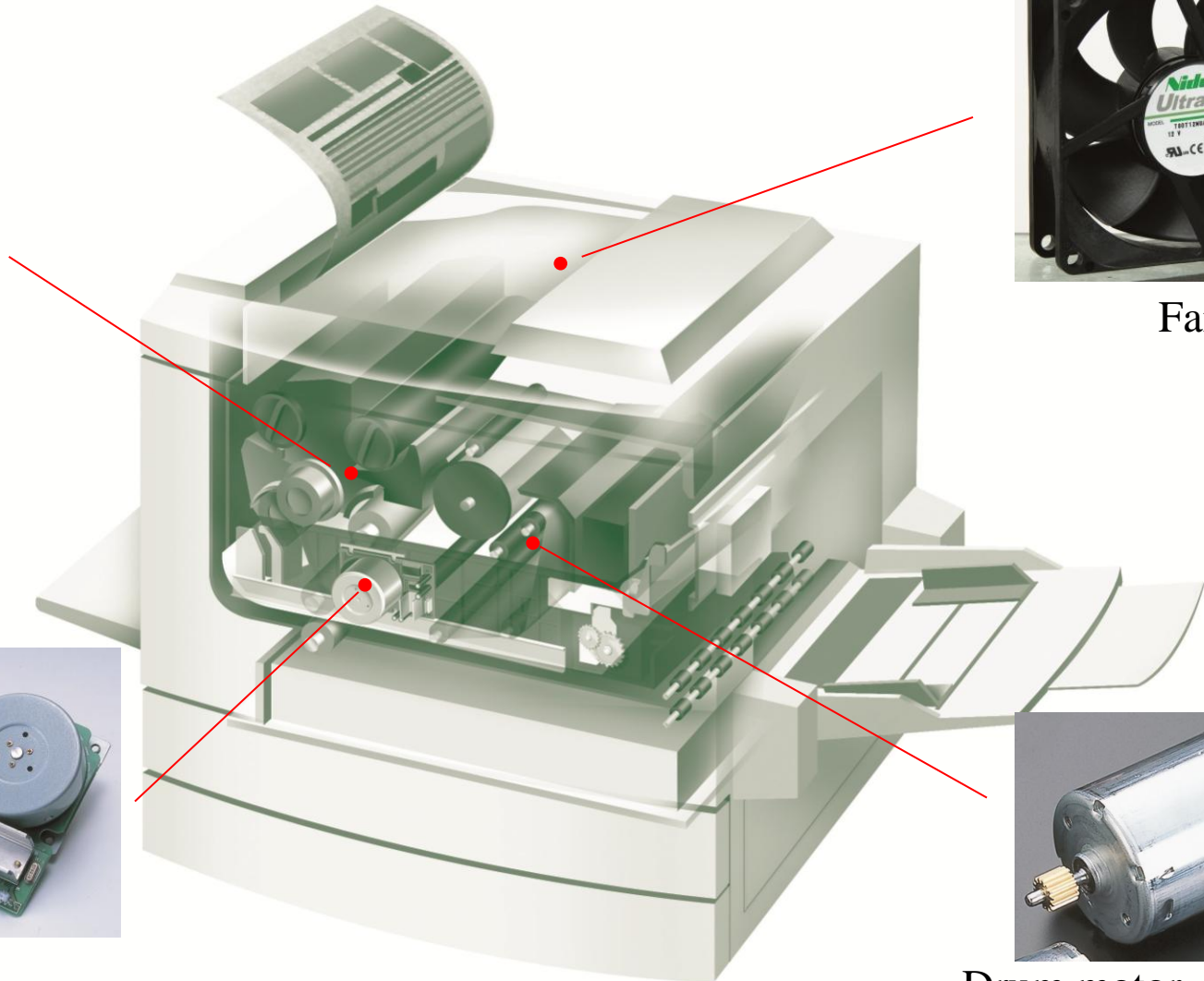
Example of Utilization



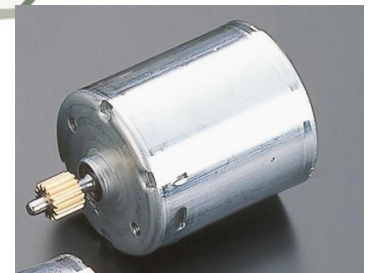
Fan



Fan



Drum motor
Paper feed motor
Fuser roller drive motor



Drum motor
Paper feed motor
Fuser roller drive motor

Example of Utilization



Disk-loading motor



Fan

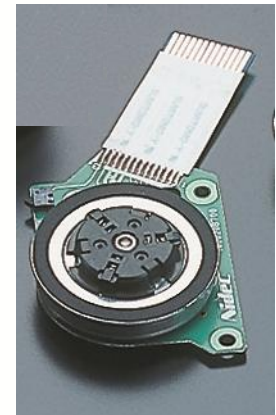
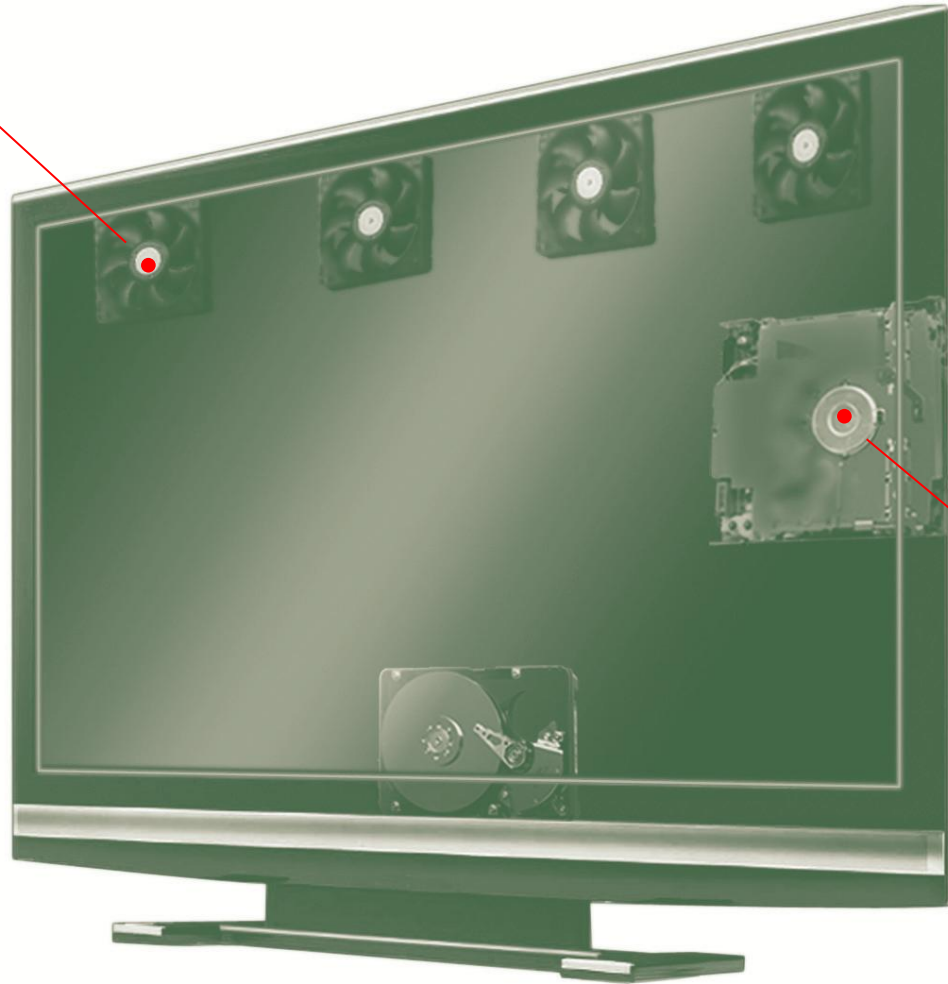


Optical disk drive motor

Example of Utilization



Fan

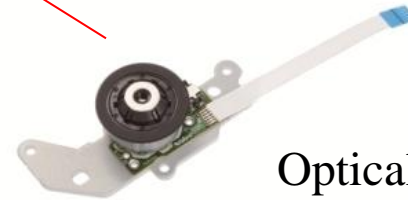


Optical disk drive motor^{16/19}

Example of Utilization



Fan



Optical disk drive motor

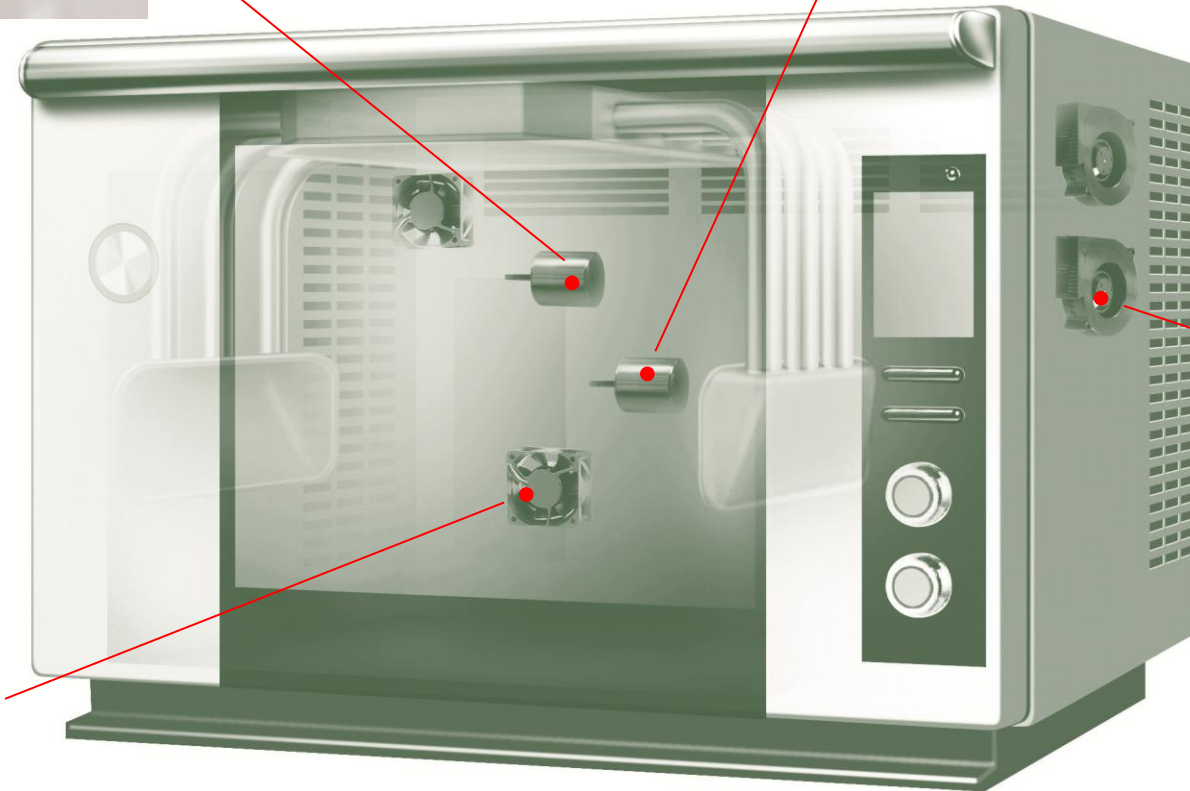
Example of Utilization



Heat circulation motor



Pump motor



Cooling fan



Exhaust fan

We have advantages of various line-ups and business results in audio visual, IT, office automation, telecommunication, home appliance, environment, industry business field.

Our mission is to propose and satisfy diverse customers' demand and request. We have established substantial development structure, so our staff in overseas communicate customers directly in order to produce a complete product.

R&D center in Japan continuously works on development of new technology and new product to add advanced solution to customers.

Nidec

尼得科

All for dreams