



IT / Office Automation / Mobile Devices / Optical Components

信息技术、办公自动化、移动、光学设备

HDD Motors and Base Plates

硬盘驱动器用马达、底座

NIDEC CORP.---P41

While conventional HDD motors use ball bearings in the bearing unit, FDB motor uses fluid oil between the shaft and sleeve. While at rotation, the motor uses the pressure (dynamics) from the fluid to support the shaft. Compared to the ball bearing design, FDB motors offer better shock resistance and increased rotational accuracy due to smaller rotational fluctuation. This enables HDDs to carry higher capacity. In addition because there's no direct contact between the shaft and sleeve, FDB motors are quieter. The bearing unit can also be made increasingly smaller.

FDB (流体动压轴承) 利用旋转时, 轴和轴承间的间隙中注满的流体(油)产生的压力(动压)支撑轴的旋转。该结构不仅具有较高的耐冲击性, 且由于最小限度的控制了轴的振动, 提高了旋转的精度, 能够增加HDD的容量。另外由于轴和轴承不接触旋转, 也提高了静音性能以及轴承部分更趋小型化等优点。



Fans

风扇马达

NIDEC CORP.---P41 NIDEC COPAL ELECTRONICS CORP.---P45 NIDEC SERVO CORP.---P46 NIDEC COPAL CORP.---P45

Because of heat generation increase caused by data transaction volume expansion, Nidec Ultra Flo which can realize high airflow, high static pressure, high efficiency, low noise, and low vibration is used for a lot of applications in these fields.



随着数据量的增加, 通讯设备的发热量也在增大, 大流量、高静音、高静压、高效率、低噪音、低振动的标准风扇“Nidec UltraFlo”系列将在通讯基站以及其他更多领域得以使用。



Small BLDC Fans
小型无刷直流风扇

Micro Blower
微型鼓风机

Privacy Shutter

隐私快门

NIDEC COPAL CORP.---P45

Ensures safety and security to the user by physically blocking the camera on various electronic devices.

小型化的各种电子设备搭载的相机, 通过超小型电动快门屏蔽, 为用户提供安心和安全。



Precision / Small Motors

精密小型马达

NIDEC CORP.---P41 NIDEC SERVO CORP.---P46 NIDEC LEROY-SOMER---P51

Small Brushless DC Motors 小型无刷直流马达



For Office Equipment
办公自动化设备用

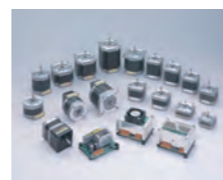
For IT & Audio Visual Equipment
IT、AV设备用

Small BLDC Motors
小型无刷直流马达(标准型)

Hybrid Stepping Motors & Drivers 混合步进电机

This unit have wide variety of motor size, drive system and step angle offerings.

本公司齐备各种尺寸、驱动方式、步进角度的系列电机。



Hybrid Stepping Motors & Drivers
混合步进电机

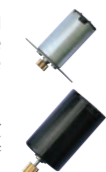
Coreless Motors

无芯马达

NIDEC COPAL CORP.---P45

This product is excellent in versatility and high-speed response. It is used in the surface mounting machine, the lens auto focus, the tape feeder, the bicycle transmission, etc.

可用于贴片机、自动焦距、自动送料机等、自行车变速器等通用性产品, 其特点为高速反应。



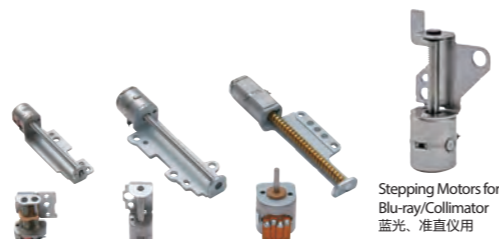
Stepping Motors

步进马达

NIDEC SANKYO CORP.---P42

ODD, Printers, Digital Cameras, Digital Video Camera Units, Mobile Phones and Peripheral Devices, DVD·BD Players/Recorders, Air Conditioners, Car Navigation, HUD, Valve-control

用于ODD、打印机、数码相机、数码摄像机、手机和周边设备、DVD·BD播放器/录音机、空调、汽车导航、HUD、节气门控制



Stepping Motors for
Blu-ray/Collimator
蓝光、准直仪用

Camera Component

摄像头用配件

NIDEC SANKYO CORP.---P42 NIDEC COPAL CORP.---P45

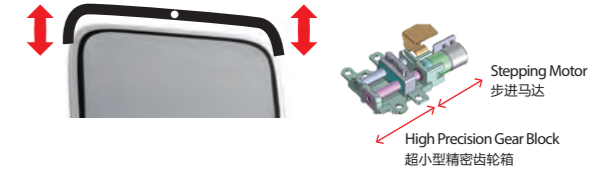


Micro Geared Stepping Motor Unit for Smart Phone Camera Pop-up Feature

超小精密齿轮电机单元, 用于智能手机摄像头升降系统

Cameras are built in the body instead of on the surface of the smartphone to fully utilize the display. The cameras come out only when they are used.

为了在智能手机的正面实现全屏显示, 摄像头从传统的显示面改为存储在智能手机内部, 仅在使用时弹出。



Stepping Motor
步进马达
High Precision Gear Block
超小型精密齿轮箱

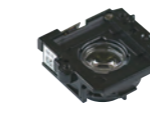
Lens Units 镜头模组

Camera modules for mobile equipment require extremely high precision and must be extremely compact and flat, highly accurate, durable, and low in power consumption. We have developed highly functional high-reliability products based on our optical, actuator, and super-high precision processing technologies.

微型、高精度、高耐久性、低能耗等, 移动设备用相机模组所要求的规格非常高。本公司融合光学技术、驱动技术及精密加工技术开发出高性能和高可靠性的产品。



Interchangeable Lenses for Cameras
相机专用交换镜头



Lens Units for Mobile Cameras and
Cameras for Personal Computers
移动设备用相机组件



Lens Barrel (Compact DSC)
镜头单元(小型)



Camera Lens for Mobile Equipment
手机用镜头

Mechanical Shutter 快门

Nidec Copal's first production was camera shutters. Our shutters are used in the various devices such as compact cameras, mobile devices and the high-end single-lens reflex cameras.

用于多年制造历史的相机快门。用于各种小型到最高级的单反镜头相机和移动设备。



VCM AF Unit for
Mobil Equipment
手机设备专用VCM
AF组件

Shutters for
Digital Cameras
数码相机专用快门

Shutters Integrated with
Image Stabilizers
防抖功能快门

Diaphragm Module for
SLR Camera Lens
单反相机镜头的光圈组件



OIS Module for
Mobile Equipment
手机设备专用OIS组件



Diaphragm Units
投影机组件



IRCF Switching Unit
监控器专用IR组件



Module Tilt Type OIS
Actuator for Mobile Devices
移动设备的OIS组件(压电方式)

Machining Parts

精密加工配件

NIDEC COPAL CORP.---P45

With the precision processing technologies combined with cutting processing by machining centers and NC lathes and including assembly goods, we produce processed goods meeting customer needs.

凭借精密加工技术为基础的加工中心和数控车床等切削加工配套的设备, 可以根据客户要求制作组装机在内的加工产品。



Lens Unit Parts
相机用镜头配件

Products of NC Type Automatic Lathe
NC自动机制作配件

Press-stamped Products
冲压加工配件

Protection Covers for Smart Phone
切削装饰外壳产品

Small Brush Motors

小型有刷马达

NIDEC SANKYO CORP.---P42 NIDEC COPAL CORP.---P45



Digital Cameras
数码相机用

Color Wheel Motors for DLP™ Projectors

DLP™投影仪用色轮马达

NIDEC CORP.---P41

BLDC motors are used for the DLP-type projectors to drive the color filter. To reduce the noise and the cost, in addition to the traditional 17S, 10S and 28S series are developed with highly reliable bearing.

DLP方式投影仪用的无刷直流马达, 可用于驱动彩色滤光片。因低噪音化和低成本化, 除了既有的17S, 还开发了具有高可靠性的轴承类型10S、28S系列。



10S Type
10S型

17S Type
17S型

17SDP Type
17SDP型

High-Precision Gears

高精度齿轮

NIDEC SANKYO CORP.---P42

Office Automation Equipment (Inkjet Printer Driving Gears, Laser Printer Driving Gears, etc) Automobiles (Driving System Parts for Inlet Pipes, Gears for Power Seat Drive, etc)

用于OA机器(喷墨打印机用各种驱动齿轮、激光打印机用各种驱动齿轮等)、车载设备(吸气类驱动部件、电动座椅驱动用齿轮等)



Polygon Laser Scanner

多面形激光扫描器

NIDEC COPAL ELECTRONICS CORP.---P45



Low Speed High Precision Polygon Laser Scanner
低速高精度多面形激光扫描器



High Speed Polygon Laser Scanner (Aerodynamic)
高速多面形激光扫描器(空气动力学型)