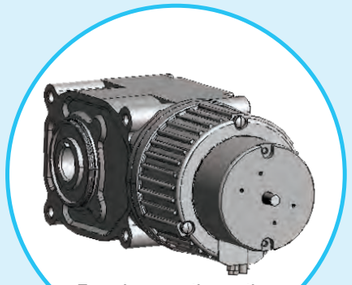
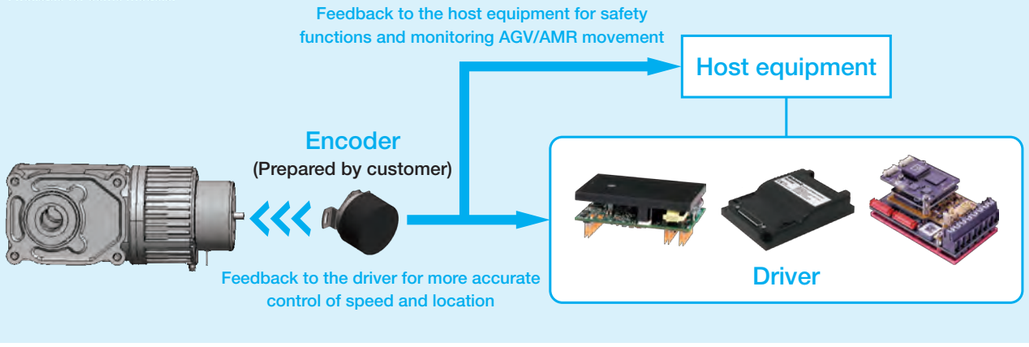
Encoder enables high-precision control

An encoder mounting option is available for gearmotors, and encoders can be mounted by the customer.
Encoder signal feedback to the driver is expected to improve stability during low-speed rotation and uneven rotation. *
Drivers with position control function can also be selected.

*Available for some models.



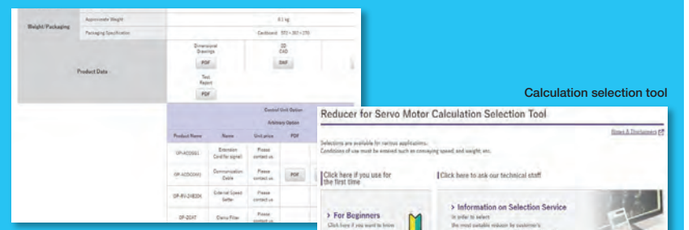
Encoder mounting option



Get the latest product information and catalogs from the website!

Access the site to select products and download CAD data and other information.

Each product page provides access to the gear motor page, which allows you to select a gear motor by product name or application. You can also filter conditions or enter usage condition values to select a product, and can even download CAD data or explanatory materials.



Select a product to gain access to downloads

Calculation selection tool

https://www.nissei-gtr.global/en/

NISSEI CORPORATION URL https://www.nissei-gtr.global/en/

Overseas Sales Department
1-1, Inoue, Izumicho, Anjo, Aichi 444-1297
TEL: 0566-92-5312 (main number) FAX: 0566-92-7002 E-mail: oversea@nissei-gtr.co.jp

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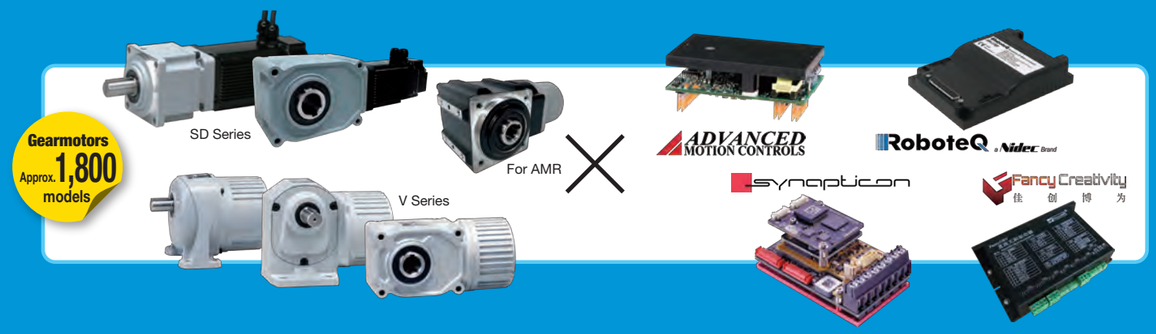
Battery Powered Gearmotor Driver Tie-Up

Collaboration with Driver Manufacturers

Make Battery Powered Gearmotors more flexible and easier to use.



Perfect collaboration with our gearmotors and drivers made by other companies

We support AGV/AMR development and implementation by providing a wide range of driver options and technical support documents.

NISSEI CORPORATION

The Best Solutions for AGV/AMR Development

Through tie-ups with driver manufacturers and distributors, we provide the best driver options and technical support documents for various applications.

We have tested the combination of these companies' drivers and our gearmotors. For a driver, please contact the distributors listed below, and for gearmotors, please contact NISSEI using the contact on the back cover of this pamphlet.
We also provide technical support documents with regard to specifications in operation and precautions for combined operation.

Gearmotors Approx. 1,800 models

Approx. 1,800 gearmotor models, a wide variety of combinations are available.

For any gearmotor of 0.1 kW and above, parallel shafts, right angle shafts, concentric right angle hollow bores/concentric right angle shafts can be selected for the same capacity and reduction ratio.

ADVANCED MOTION CONTROLS

Driver manufacturer
Advanced Motion Controls

Combination confirmed models
DigiFlex® Performance™ (PCB Mount) *1

Communication function
CANopen/EtherCAT/Modbus, etc.

Properties
- Driver specialist manufacturer (California, U.S.A.)
- More than 3 million units sold worldwide
- Equipped with torque (voltage), speed, and position control modes
- Spatial vector control with encoder feedback.
- Equipped with functional safety STO (SIL3). TÜV certified models available.
- UL/cUL, CE Class A (LVD/EMC), RoHS compliance
- Environmental resistance (MIL-STD-810 compliance), customization available, etc.

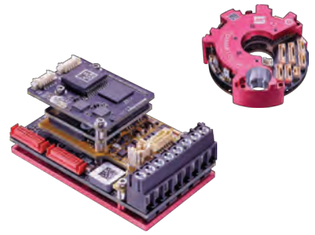
RoboteQ a Nidec Brand

Driver manufacturer
Roboteq

Combination confirmed models
SBL Family / FBL Family *1

Communication function
CANopen/EtherCAT *2/Modbus, etc.

Properties
- 2 motors can be driven - Cover included
- ROS support - Can be driven by encoder feedback
- Equipped with functional safety STO (ISO 13849-1 2015 Category 3 compliant)
- Can be optimized using magnetic sensors *2 in magnetic induction type AGVs
- Software customization available, etc.



synapticon

Driver manufacturer
Synapticon

Combination confirmed models
SOMANET Node / SOMANET Node Safety *1

Communication function
EtherCAT

Properties
- High safety compliant driver (SIL 3, PLe, Category 3, others)
- Unique performance that boasts high current density and minimizes heat generation
- Node (ultra-compact), Circulo (hollow), Integro (lineup of wire-saving and space-saving types)
- The encoder supports BiSS-C/SSI/ABI/Nikon A-Format/Hall sensors, etc.

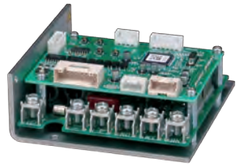
Fancy Creativity 佳 创 博 为

Driver manufacturer
Fancy Creativity

Combination confirmed models
FancyDRV-BLDC 24-2X200-V2 /
FancyDRV-BLDC 48-2X400-S2

Communication function
CANopen / Modbus

Properties
- 2 motors can be driven
- Cover included
- Good cost performance
- Simple configuration, etc.



Nissei 株式会社 ニッセイ

Driver manufacturer
NISSEI

Combination confirmed models
A-BLCD***L* /
A-SDNB080L4 (NISSEI dedicated driver)

Communication function
–

Properties
- NISSEI original driver (Compatible with all models, can be used immediately after purchase, extension cable option available)
- Full range of I/O functions (DC lock, movement detection by rotation pulse)
- Full range of speed command methods (analog and digital settings possible)
- No heat sink required

To be added

We plan to add more drivers as they become available.

*1. Combination function has been tested with the exception of some models. Please visit our website for the latest information on each driver model and gearmotors to be combined.
*2. Optional support available.

A wide variety of mounting and reduction ratios meet diverse needs.